The 58th Annual Meeting of the Japanese Society of Child Neurology

June 2nd—June 5th, 2016
Keio Plaza Hotel Shinjuku

PROGRAM
The 58th Annual Meeting of the Japanese Society of Child Neurology

June 2nd

Pre-congress

Practical educational seminar 1

Room 1  11:30-14:30

**Practical educational seminar 1**

Neuroimaging for Pediatricians 2016

Chairs: Jun’ichi Takanashi, Department of Pediatrics, Tokyo women's Medical University Yachiyo Medical Center

Hiroshi Oba, Department of Radiology, Teikyo University Hospital

Young cerebrovascular accidents

  Harushi Mori, Department of Radiology, Graduate School and Faculty of Medicine, the University of Tokyo

Imaging diagnosis of neonatal encephalopathy

  Hiroshi Oba, Department of Radiology, Teikyo University Hospital

Up-to-date neuroimaging of acute encephalopathy

  Jun’ichi Takanashi, Department of Pediatrics, Tokyo Women's Medical University, Yachiyo Medical Center, Yachiyo, Japan

Brain image of the child in emergency

  Tomonori Kanda, Teikyo University school of medicine, Tokyo, Japan

Pediatric systemic diseases and CNS lesions

  Yoshiyuki Tsutsumi, Department of Radiology, National Center for Child Health and Development, Tokyo, Japan

Practical educational seminar 2

Room 8  11:30-14:30

**Practical educational seminar 2**

Practical guide to clinical neurophysiology

Chairs: Masaharu Ohfu (Division of Child Neurology, Okinawa Prefectural Southern Medical Center & Children's Medical Center), Atsushi Araki (Department of Pediatrics, Kansai Medical University)

Auditory brainstem response and P300

  Hideo Enoki (Department of Child Neurology, Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Hamamatsu, Japan)

Clinical application of near infrared spectroscopy NIRS in child neurology

  Masumi Inagaki (Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan)

Neurophysiology ABR, P300 : demonstration

  Yoshimi Kaga1,2, Masao Aihara3

  1. Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan

  2. National Hospital Organization, Kofu National Hospital, Yamanashi, Japan

  3. Graduate Faculty of Interdisciplinary Research, Graduate School, University of Yamanashi, Yamanashi, Japan

Introduction to functional near infrared spectroscopy in pediatric neurology

  Yosuke Kita (Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan)

Practical educational seminar 3

Room 9  11:30-14:30

**Practical educational seminar 3**

3rd hands-on genetics education seminar

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

Toshiyuki Yamamoto1, Hitoshi Osaka2, Takahito Wada3, Yasunari Sakai4

  1. Tokyo Women's Medical University Institute for Integrated Medical Sciences, Tokyo, Japan

  2. Department of Pediatrics, Jichi Children's Medical Center Tochigi, Jichi Medical University

  3. Kyushu University Graduate School of Science, Kyoto, Japan

  4. Department of Pediatrics, University of Kyushu, Fukuoka
### Practical educational seminar 2  Room 5  12:00-14:30
Diagnostc reasoning for pediatric neurology practice  
Chair: Katsuo Sugita (Division of Child Health, Faculty of Education, Chiba University)

Necessary for clinical reasoning in paediatric neurology practices  
Katsuo Sugita (Division of Child Health Faculty of Education Chiba University)

What is the diagnostic reasoning  
Masatomi Ikusaka (Department of General Medicine, Chiba University Hospital, Chiba, Japan)

Important thing in child neurology practice  
Yoshihiro Maegaki (Division of Child Neurology, Faculty of Medicine, Tottori University, Yonago, Japan)

### Practical educational seminar 5  Room 5  14:45-17:45
Pediatric Palliative Care ~What we can do as neurologists for children with life threatening conditions~  
Chairs: Ryutarou Kira (Department of Pediatrics Neurology, Fukuoka Children’s Hospital), Ryohei Tatara (Department of Palliative Medicine Osaka City General Hospital)

Overview of pediatric palliative care  
Nobuyuki Yotani (Department of Palliative Medicine, Kobe University Graduate School of Medicine, Kobe, Japan)

Pediatric palliative care as a further practice when the child’s illness is incurable  
Momoko Sasazuki (Department of Pediatrics, Kyushu University Graduate School of Medical Science, Fukuoka, Japan / Pediatric Palliative Team, Kyushu University Hospital, Fukuoka, Japan)

Communication about better care planning for children with acute or chronic life threatening illnesses  
Shin Okazaki (Osaka City General Hospital, Osaka, Japan)

Ethical dilemmas concerning decision making on medical treatment for incompetent child  
Ryohei Tatara (Department of Palliative Medicine, Osaka City General Hospital)

### Practical educational seminar 6  Room 8  14:45-17:45
How to read neonatal EEG/aEEG  
Chairs: Toru Kato (Department of Pediatrics, Okazaki City Hospital), Akihisa Okumura (Department of Pediatrics, Aichi Medical University)

Conventional EEG in full-term infants  
Tatsuya Fukasawa (Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan)

Conventional EEG in preterm infants  
Toru Kato (Department of Pediatrics, Okazaki City Hospital)

Recording and reading of aEEG  
Yuichiro Sugiyama (Division of Neonatology, Center for Maternal-Neonatal Care, Nagoya University Hospital)

### Practical educational seminar 7  Room 9  15:30-17:30
Usage of Vineland Adaptive Behavior Scales, 2nd Edition,  
Chair: Junichi Furusho (College of Education, Human Studies and Psychology, Aoyamagakuin University)

How we use Vineland-2 Adaptive Behavior Scale, Japanese version  
Masatsugu Tsujii (Faculty of Sociology, Chukyo University, Toyota, Japan)
The 58th Annual Meeting of the Japanese Society of Child Neurology

**Committee's Seminar**
**Room 5**  **18:00-20:00**

Publicity strategy of the Japanese Society of Child Neurology.
Chairs: Tohru Okanishi (Division of Child Neurology, Seirei-Hamamatsu General Hospital), Shinichi Yagi (YAGI CHILDREN'S CLINIC, University of Toyama, Faculty of Medicine)

Mission of this meeting
Jun Kohyama (Tokyo Bay Urayasu Ichikawa Medical Center, Urayasu, Japan)
Necessity and basic strategy for a high degree of recognition in the Japanese Society of Child Neurology
Hiromichi Ito (Department of Pediatrics, Tokushima University, Tokushima, Japan)

System construction of information collection and transmission: press release
Kenjiro Kikuchi (Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan)

The slogan to develop the Japanese Society of Child Neurology for the future
Tohru Okanishi (The Division of Child Neurology, Seirei-Hamamatsu General Hospital, Hamamatsu, Shizuoka, Japan)

**Committee's Seminar**
**Room 8**  **18:00-20:00**

Future development of the therapy in neuromuscular diseases
Chairs: Tatsuya Fujii (Shiga Medical Center for Children), Harumi Yoshinaga (Department of child Neurology, Okayama University)

Frontline of the development of therapeutic drugs for mitochondrial disorders
Yasutoshi Koga (Department of Pediatrics and Child Health, Kurume University School of Medicine)
A review of the clinical trials for Duchenne muscular dystrophy
Hirofumi Komaki (Department of Clinical Research Promotion, National Center of Neurology and Psychiatry)
Kickoff toward a new era of the fundamental therapy for spinal muscular atrophy
Kayoko Saito, Reiko Arakawa (Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo, Japan)

**Committee's Seminar**
**Room 9**  **18:00-20:00**

Medical Safety Seminar
Chairs: Hideo Yamanouchi (Department of Pediatrics, Saitama Medical University), Seigo Korematsu (Oita University Faculty of Medicine Division of Educational Support for Regional Pediatrics)

The safe usage of anticonvulsants
Rie Miyata1,5, Madoka Hoshiddeo2,5, Seigo Korematsu1,5, Hideo Yamanouchi1,5
1. The Department of Pediatrics, Tokyo-Kita Medical Center, Tokyo, Japan 2. The Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan 3. Educational Support for Regional Pediatrics, Oita University Faculty of Medicine, Oita, Japan 4. Department of Pediatrics, Saitama Medical University, Saitama, Japan 5. Japan Medical Safety Research Organization, Tokyo, Japan

Safety management of sedative drug for children
Kazuhiro Muramatsu1, Yusaku Miyamoto2
1. Department of Pediatrics, Gunma University Graduate School of Medicine, Gunma, Japan 2. Kawasaki Municipal Tama Hospital, Kanagawa, Japan

Safety management for children in cooperation with pediatricians and neurosurgeons
Shoko Shimokawau1,2, Hiroaki Sakamoto1,4
1. Department of Neurosurgery, Faculty of Medicine, Saga University, Saga, Japan 2. Japanese Society for Pediatric Neurosurgery, chairperson of medical safety committee 3. Department of Neurosurgery, Osaka City University Graduate School of Medicine

Principles and prospects of “Medical Accident Investigation System”
Sosuke Kimura (Japan Medical Safety Research Organization, Tokyo, Japan)
June 3rd

Opening Ceremony

Room 1  8:00-8:05

Presidential Lecture

For our children's future—Bridging between child neurology and multiple fields
Chair: Makiko Osawa (Tokyo Women's Medical University)
Shinichi Nijjima, Juntendo University Nerima Hospital, Tokyo, Japan

Special Lecture

New Concepts of Malformations of Cortical Development
Chair: Toshisaburo Nagai (Poole Gakuin University)
A. James Barkovich, University of California, San Francisco UCSF-Benioff Children's Hospital, USA

English Session

Epilepsy and convulsive diseases 1
Chair: Andrew L. Lux (Bristol Royal Hospital for Children, Bristol, UK), Hiroshi Otsubo (Clinical Neurophysiology, Division of Neurology The Hospital for Sick Children)

E-001  Hypofunction of the hypothalamic–pituitary–adrenal axis after ACTH therapy
Yuichi Abe, Kaori Sassa, Ikuma Musya, Akira Ohtake, Hideo Yamanouchi, Department of Pediatrics, Saitama Medical University, Saitama, Japan

E-002  Modeling the cellular phenotype of STXBP1-related epileptic encephalopathy using iPSC
Satoshi Yamashita1, Tomohiro Chiyonobu1, Michiko Yoshida1,2, Hiroshi Maeda1, Masashi Zuiki1, Satoshi Kidowaki1, Kenichi Isoda1,2, Masafumi Morimoto1, Mitsuhiko Kato1,2, Hirotomo Saitsu1, Naomichi Matsumoto1, Tatsutoshi Nakahata2, Megumu Saito1, Hajime Hosoi1
1. Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan, 2. Department of Clinical Application, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan, 3. Department of Pediatrics, Yamagata University Faculty of Medicine, Yamagata, Japan, 4. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan, 5. Present address: Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan

E-003  Paroxysmal nonepileptic events misidentified as epileptic seizures in children with epilepsy
Yuji Ito, Tamiko Negoro, Yu Okai, Yoko Sakaguchi, Chikako Ogawa, Atsuko Ono, Tomohiko Nakata, Hiroyuki Kidokoro, Kazuyoshi Watanabe, Jun Natsume
Department of Pediatrics, Nagoya University Graduate School of Medicine, Aichi, Japan

E-004  Combination of low-dose aspirin with LEV for seizures in Sturge–Weber syndrome—a case report
Yoko Takahashi1,2, Yurika Uematsu3, Yoshitsugu Oikawa3, Yukimune Okubo3, Mitsugu Uematsu3, Kazuyuki Nakamura3, Shigeo Kuro2
1. Tohoku University School of Medicine, Sendai, Japan, 2. Department of Pediatrics, Tohoku University Graduate School of Medicine, Sendai, Japan, 3. Department of Pediatrics, Yamagata University School of Medicine, Yamagata, Japan

E-005  A case of Lennox–Gastaut syndrome with dynamin 1 mutation revealed by whole exome sequencing
Takeshi Kouga1, Hitoshi Osaka1, Takanori Yamagata1, Mitsuko Nakashima2, Tomohide Goto3, Yoshinori Tsurusaki2, Satoko Miyatake2, Noriko Miyake2, Hirotomo Saitsu2, Naomichi Matsumoto2
1. Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 2. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan, 3. Division of Neurology, Kanagawa Childrens Medical Center, Yokohama, Japan

E-006  West syndrome NHO-Japan 342 ACTH cases study: developmental outcome of the initial ACTH therapy
Yukitoshi Takahashi1, Akiko Oota1, Yushi Inoue1, Jun Toyama2, Hiroshi Fujita3, Chizuru Nishizato4, Jyunya Takahashi5, Shigeki Tanaka6, Masayoshi Nagao7, Hiroshi Shiraga8, Hideo Kaneko8, Yasuko Sawai9

E-007  Chronic PHT intoxication and its adverse reactions relative to the withdrawal: case report
TATSURO IZUMI, Department of Pediatrics, National Nanao Hospital, Nanao, Japan

The 58th Annual Meeting of the Japanese Society of Child Neurology
Symposium 1
Guideline for the management of convulsive status epilepticus in infants and children
Chair: Kitami Hayashi¹, Hitoshi Yamamoto²
1. Tokyo women’s Medical University Yachiyo Medical Center Department of Pediatrics Neurology 2. St. Marianna University School of Medicine

Prehospital and firstline treatment for status epilepticus
Ichiro Kuki¹, Kiyotaka Murakami²
1. The Department of Pediatric Neurology, Osaka City General Hospital, Osaka City, Japan, 2. The Department of Pediatric Neurology, Nakano Children's Hospital, Osaka city, Japan

Treatment for benzodiazepine-resistant convulsive status epilepticus
Kenjiro Kikuchi¹, Hitoshi Yamamoto²
1. Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan, 2. Department of Pediatrics, St. Marianna University School of Medicine, Kawasaki, Japan

Management of refractory and super refractory status epilepticus
Hiroaki Nagase¹, Kenji Sugai²
1. Department of Mental Health for Children and Parents, Kobe University Hospital, Kobe, Japan, 2. Department of Pediatric Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan

Evaluation for convulsive status epilepticus
Tomoyuki Akiyama¹, Yoshihiro Maegaki²
1. Department of Child Neurology, Okayama University Hospital, Okayama, Japan, 2. Epilepsy Center, Okayama University Hospital, Okayama, Japan

Symposium 2
Construction of environment to nurture proactive emotional development leading to future social creativity
Hideo Yamanouchi, Department of Pediatrics, Saitama Medical University
Mitsuru Senda, Enviroment Design Institute

Possibility of developmental diagnosis and treatment with inclusive information of food, clothing, shelter and social environments
Mamiko Koshiba¹,², Hiroko Kakei¹, Hayato Sakurai¹, Masakazu Honda¹, Kayo Morita¹, Shinpei Ozawa¹, Kunihiro Nishimura³, Shun Nakamura¹, Mamoru Niitsu¹, Tetsuya Kunikata¹, Hideo Yamanouchi¹
1. Department of Pediatrics, Saitama, Japan, 2. Department of Biochemistry, 3. NCNP, Tokyo, Japan

Issues about rearing environment of children in Japan and study of children’s environment
Mitsuru Senda, Enviroment Design Institute

Pose estimation of neonates from infrared thermography
Masanori Hariyama, Graduate School of Information Sciences, Tohoku University, Sendai, Japan

Attachment as the cradle of socio-emotional development
Toshihiko Endo, Department of Educational Psychology, Graduate School of Education, The University of Tokyo, Tokyo, Japan

The thermodynamic law and indoor environment—what a series of exergy research have found—
Masanori Shukuya, Department of Restoration Ecology and Built Environment, Tokyo City University, Japan

Symposium 3
Interdisciplinary approach for children with severe spasticity
Akira Oka, Department of Pediatrics, The University of Tokyo
Nobuhito Morota, Division of Neurosurgery, Tokyo Metropolitan Children’s Medical Center

Treatment of botulinum toxin
Atsuo Nezu, Clinic of Neuropediatrics Yokohama Residential Care and Medical Cetntrre for Developmentally Disabled Person, Yokohama, Japan

Current status and Issues of ITB therapy
Masaya Kubota, Hirofumi Kashii, Hiroshi Terashima, Division of Neurology, National Center for Child Health and Development, Tokyo, Japan

Functional posterior rhizotomy for severe spasticity in children
Satoshi Ihara, Nobuhito Morota, Division of Neurosurgery, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan

Treatment of orthopaedic surgery for severe spasticity
Tsukasa Shimura, Hiroshima Prefectural Rehabilitation Center, Higashihiroshima, Japan
Oral Presentation  

**Encephalitis and encephalopathy 1**  
Chair: Hitoshi Osaka (Department of Pediatrics, Jichi Medical School), George Imataka (Department of Pediatrics, Dokkyo Medical University, School of Medicine)

**O-001** Frequency of AESD in febrile convulsions  
Yosuke Hosokawa¹, Takeshi Tsuzi², Tetsuo Kubota³, Naoki Ando⁴, Kiyokuni Miura⁴, Hiroyuki Kidokoro⁵, Akihisa Okumura⁶, Shinji Saito⁴, Jun Natsume⁵  
1. The Department of child neurology, Toyota city child development center, Toyota city, Japan 2. The Department of child neurology, Okazaki city hospital, Okazaki city, Japan 3. The Department of child neurology, Anjo kouei hospital, Anjo city, Japan 4. The Department of child neurology, Nagoya city university hospital, Nagoya city, Japan 5. The Department of child neurology, Nagoya university hospital, Nagoya city, Japan 6. The Department of child neurology, Aichi medical university hospital, Nagakute city, Japan

**O-002** Comparison of early EEG findings between AESD and PFS  
Tatsuya Fukasawa¹, Akihisa Okumura², Takeshi Suzuki³, Yuji Nakamura³, Misa Miyake⁴, Tsukasa Ohnö⁵, Tetsuo Kubota¹, Takeshi Tsujii⁶, Naoki Ando⁷, Shinji Saito⁷, Jun Natsume⁷  
1. Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan 2. Department of Pediatrics, Aichi Medical University, Aichi, Japan 3. Department of Pediatrics, Toyohashi municipal hospital, Aichi, Japan 4. Department of Pediatrics, Fujita Health University School of Medicine, Aichi, Japan 5. Department of Pediatrics, Nagoya University, Aichi, Japan 6. Department of Pediatrics, Okazaki City Hospital, Aichi, Japan 7. Department of Pediatrics and Neonatology, Nagoya City University, Graduate School of Medical Sciences, Aichi, Japan

**O-003** EEG findings in clinically mild encephalitis/encephalopathy with reve rsible splenial lesion  
Takeshi Suzuki¹, Akihisa Okumura¹, Tatsuya Fukasawa¹, Yuji Nakamura³, Misa Miyake⁴, Tsukasa Ohnö⁵, Tetsuo Kubota¹, Takeshi Tsujii⁶, Naoki Ando⁷, Shinji Saito⁷, Jun Natsume⁷  
1. Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan 2. Department of Pediatrics, Aichi Medical University, Aichi, Japan 3. Department of Pediatrics, Toyohashi municipal hospital, Aichi, Japan 4. Department of Pediatrics, Fujita Health University School of Medicine, Aichi, Japan 5. Department of Pediatrics, Nagoya University, Aichi, Japan 6. Department of Pediatrics, Okazaki City Hospital, Aichi, Japan 7. Department of Pediatrics and Neonatology, Nagoya City University, Graduate School of Medical Sciences, Aichi, Japan

**O-004** Six cases of mild acute encephalitis/encephalopathy with arousal disorder as the main symptom  
Hiroshi Terashima¹, Tadayuki Kumagai², Satoshi Takenaka¹, Mai Anzai², Mariko Kasai³, Yu Watanabe⁴, Makiko Saito⁵, Masashi Mizuguchi⁵, Masaya Kubota¹  
1. Division of Neurology, National Center for Child Health and Development, Tokyo, Japan 2. Department of Pediatric Neurology, Takuto Rehabilitation Center for Children, Sendai, Japan 3. Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan 4. Home Care Clinic Aozora Shin-Matsudo, Matsudo, Japan 5. Department of Developmental Medical Sciences, Graduate School of Medicine, University of Tokyo, Tokyo, Japan

**O-005** Evaluation of AESD score for early diagnosis  
Yoko Miyaama¹, Emiyo Matsuo, Yuri Shirato², Kumi Yasukawa¹, Ayako Muto³, Kitami Hayashi³, Junichi Takanashi³  
1. Tokyo Womens Medical University Yachiyo Medical Center, Chiba, Japan 2. Tokyo Womens Medical University Yachiyo Medical Center, Chiba, Japan

**O-006** Procalcitonin level in acute encephalopathy with biphasic seizures and late reduced confusion  
Michihiko Takasu¹, Hirokazu Kurahashi¹, Akihisa Okumura¹, Jun Natsume², Shinji Saito³, Takeshi Tsujii³, Tetsuo Kubota³, Yoshiteru Azuma³, Tomoyuki Takeuchi³, Motomasa Suzuki³, Yuu Okai³, Yuushi Ito²  
1. Department of Pediatrics, Aichi Medical University Graduate School of Medicine, Aichi, Japan 2. Department of Pediatrics, Nagoya University Graduate School of Medicine, Aichi, Japan 3. Department of Pediatrics, Neuronatology, Nagoya City University Graduate School of Medical Sciences, Aichi, Japan 4. Department of Pediatrics, Okazaki City Hospital, Okazaki, Japan 5. Department of Pediatrics, Anjo-Kosei Hospital, Aichi, Japan 6. Department of Pediatric neurology, Aichi Children’s Hospital and Medical Center, Aichi, Japan

Oral Presentation  

**Neurodevelopmental disorders 1**  
Chair: Masumi Inagaki (Department of Developmental Disorders, NIMH, NCNP), Tasuku Miyajima (Tokyo Kasei University Faculty of Child studies, Department of Education for Children)

**O-025** Possibility of finding out children with underachievement using writing accuracy and reading fluency  
Yuko Ogino¹, Akihiro Kawasaki², Tomohito Okumura³, Makoto Nakanishi³, Meikumi Mizuta³, Eizi Wakamiya³, Hirosi Tamai³  
1. Yokohama Western Area Habilitation Center for Children, Yokohama, Japan 2. Tohoku University Graduate School of Education, Sendai, Japan 3. Osaka Medical College, LD Center, Takatsu, Japan 4. Aino University, Faculty of Nurse Science, Ibaraki, Japan 5. Osaka Medical College, Department of Pediatrics, Takatsu, Japan
**O-026** Relationship between academic achievement and cognitive function 2 – vocabulary with CARD –
Mekumi Mizuta1, Tomohito Okumura1, Makoto Nakanishi1,2, Tomoko Miura1,2, Naoko Kurimoto1, Takashi Takeshita1, Akihiro Kawasaki1, Eiji Wakamiya1, Hiroshi Tama16.
1. Osaka Medical College, LD Center, Takatsuki, Japan, 2. Kansai University, Graduate School of Psychology, Suita, Japan, 3. Sakai Seikeikai Hospital, LD Center, Sakai, Japan, 4. Tohoku University Graduate School of Education, Sendai, Japan, 5. Department of Nursing, Faculty of Life Science, Aino University, Ibaraki, Japan, 6. Osaka Medical College, Department of Pediatrics, Takatsuki, Japan.

**O-027** Relationship between basic learning skill and social skill
Akihiro Kawasaki1, Tomohito Okumura2, Makoto Nakanishi2, Tomoko Miura2,3, Mekumi Mizuta2, Eiji Wakamiya2,4, Yuko Ogino3, Hiroshi Tama16.
1. Tohoku University Graduate School of Education, Sendai, Japan, 2. Osaka Medical College, LD Center, Takatsuki, Japan, 3. Sakai Seikeikai Hospital, LD Center, Sakai, Japan, 4. Aino University, Faculty of Nursing Science, Ibaraki, 5. YRS, Yokohama, 6. Osaka Medical College, Department of Pediatrics, Takatsuki, Japan.

**O-028** Effects of speed and correctness of calculation on arithmetic achievement in school children
Eiji Wakamiya1, Makoto Nakanishi2, Tomohito Okumura3, Mekumi Mizuta3, Naoko Kurimoto4, Takashi Takeshita3, Tomoko Miura4, Akihiro Kawasaki5, Mari Hatanaoka6, Miho Fukui6, Hiroshi Tama16.
1. Department of Nursing, Faculty of Health Science, Aino University, Ibaraki, Japan, 2. Graduate School of Psychology, Kansai University, Suita, Japan, 3. LD Center, Osaka Medical College, Takatsuki, Japan, 4. Department of Pediatrics, Sakai Seikeikai Hospital, Sakai, Japan, 5. Graduate School of Education, Tohoku University, Sendai, Japan, 6. Department of Pediatrics, Osaka Medical College, Takatsuki, Japan.

**O-029** Characteristics of children in the tier 3 of the RTI–model intervention for reading difficulties
Ayumi Seki1, Hisakazu Yanaka2, Yoriko Akao2, Hitoshi Uchiyama3, Tatsuya Koeada4.
1. Faculty of Education, Hokkaido University, Sapporo, Japan, 2. Child Development and Learning Research Center, Faculty of Regional Sciences, Tottori University, Tottori, Japan, 3. School of Health Sciences, International University of Health and Welfare, Ohtawara, Japan, 4. Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan.

**O-030** Pathophysiology of Kanji writing disability in Japanese children
Mari Hatanaoka1, Eiji Wakamiya2, Makoto Nakanishi3,4, Takashi Takeshita4, Tomoko Miura5, Tomohito Okumura5, Mekumi Mizuta4, Naoko Kurimoto5, Miho Fukui1, Shuichi Shimakawa5, Hiroshi Tama15.
1. Department of Pediatrics, Osaka Medical College, Osaka, Japan, 2. Department of Nursing, Faculty of Life Science, Aino University, Osaka, Japan, 3. Graduate School of Psychology, Kansai University, Osaka, Japan, 4. LD Center, Osaka Medical College, Osaka, Japan, 5. LD Center, Sakai Seikeikai, Osaka, Japan.

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**Oral Presentation**

**Genetics 1**

Chair: Sumimasa Yamashita (Division of Neurology, Kanagawa Children's Medical Center, Yokohama, Japan), Takahito Wada (Division of Medical Ethics and Medical Genetics, Kyoto University Graduate school of Medicine)

**O-049** Clinical heterogeneity of genetically confirmed nine patients with Vici syndrome
Ikumi Horii1, Fuyuki Miya1,2,3, Mitsuko Nakashima1,2, Takeshi Otomo1, Yutaka Negishi1, Ayako Hattori1, Naoki Ando1, Tatsuhiko Tsunoda1, Ichizo Nishino2, Yonehiro Kanemura1, Tamotsu Yoshimori2, Naomichi Matsumoto1, Kenjirou Kosaki2, 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. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan, 5. Department of Genetics, Osaka University Graduate School of Medicine, Osaka, Japan, 6. Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan, 7. Division of Regenerative Medicine, Institute for Clinical Research, Osaka National Hospital, National Hospital Organization, Osaka, Japan, 8. Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan.

**O-050** A case of spinocerebellar degeneration with KIF1A mutation
Takuya Kosaka1, Hideo Tsuda2, Takuya Hirade3, Hirofumi Komaki3.
1. Department of Pediatrics, Fukui Prefectural Rehabilitation Center For Children With Disabilities, Fukui, Japan, 2. Department of Pediatrics, Fukui Prefectural Hospital, Fukui, Japan, 3. Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan.

**O-051** Quantitative analysis of allelic Ube3a expression by ddPCR
Tatsuya Kishino
Division of Functional Genomics, Center of Frontier life science, Nagasaki University, Nagasaki, Japan.
O-052 Clinical spectrum of PIGO mutations
Junpei Tanigawa1,2, Yoshiko Murakami3, Kouji Tominaga1,2,3, Shin Nabatame1,2, Haruka Mimatsu4, Hiroyuki Kidokoro5, Masahiro Hayakawa6, Seizi Mizuno7, Nobuaki Nakamatsu8, Nobuhiro Okamoto9, Jun Natsume10,11, Tarou Kinoshita1, Keiichi Ozono1,2
1. Department of Pediatrics, Graduate School of Medicine, Suita, Japan, 2. Osaka University Hospital Epilepsy Center, Suita, Japan, 3. United Graduate School of Child Development Osaka University, Suita, Japan, 4. Department of Immunoregulation Research Institute for Microbial Diseases, Laboratory of Immunology, Frontier Research Center, Osaka University, Osaka, Japan, 5. Division of Neonatology Center for Maternal-Neonatal Care, Nagoya University Hospital, Nagoya, Japan, 6. Department of Pediatrics, Nagoya University Hospital, Nagoya, Japan, 7. Department of Pediatrics, Central Hospital, Aichi Human Service Center, Kasugai, Japan, 8. Department of Genetics, Institute for Developmental Research, Aichi Human service Center, Kasugai, Japan, 9. Department of Medical Genetics, Osaka Medical Center and Research Institute for Maternal and Child Health, Izumi, Japan, 10. Department of Developmental Disability Medicine, Nagoya University Graduate School of Medicine, Nagoya, Japan

O-053 A study of MECP2 mutations and locomotion ability from Japanese Rett syndrome database
Tomoko Saikusa1,2, Koutarou Yuge3, Satoru Takahashi4, Tatsujirou Matsuishi5,6, Tetsuji Tanioka7, Toshiharu Ikenaga8, Tsato Hirayama9, Masayuki Ito10
1. St. Mary’s Hospital, Fukuoka, Japan, 2. The Department of Pediatrics and Child Health Kurume University of Medicine, Fukuoka, Japan, 3. National Center of Neurology and Psychiatry, Tokyo, Japan, 4. The Department Pediatrics Asahikawa Medical University, 5. Rett, 6. Rett, 7. Sakurannbo

O-054 Two brothers with ATR-X syndrome due to low-frequency maternal mosaicism for an ATRX mutation
Hiroko Shimbo1, Shinsuke Ninomiya2, Kenji Kurosawa3, Takahito Wada4
1. Clinical Research Institute, Kanagawa Children’s Medical Center, Yokohama, Japan, 2. Department of Clinical Genetics, Kurashiki Central Hospital, Kurashiki, Japan, 3. Medical genetics, Kanagawa Children’s Medical Center, Yokohama, Japan, 4. Department of Medical Ethics and Medical Genetics, Kyoto University Graduate School of Medicine, Kyoto, Japan

Oral Presentation

Epilepsy and convulsive diseases 1

Room 8 9:40-10:40

O-073 A boy with flaccid tetraplegia and late-onset epileptic spasms caused by mutations in DYNC1H1
Atsushi Araki1, Tomoko Koga1, Kazunari Kaneko1, Nobuhiro Okamoto2, Hirotomo Saitsu3, Naohiomi Matsumoto4
1. Department of Pediatrics, Kansai Medical University, Osaka, Japan, 2. Department of Medical Genetics, Osaka Medical Center and Research Institute for Maternal and Child Health, Izumi, Japan, 3. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

O-074 Genetic studies of the hemiconvulsion–hemiplegia epilepsy syndrome
Sawako Yamazaki1,2, Jun Tohyama1, Atsushi Ishii2, Shinichi Hirose3
1. The Department of Pediatrics, University of Niigata, Niigata, Japan, 2. The Department of Pediatrics, National Institute for the Severely Handicapped Children, Niigata, Japan

O-075 Presenting intractable epilepsy and early deterioration in a male patient with BPAN
Kazuya Goto1, Shinichi Uchiyama2, Kazuhide Imai3, Kyoko Takano4
1. Division of Pediatrics, Nishibeppu National Hospital, Beppu, Japan, 2. Department of Medical Genetics, Shinshu University School of Medicine, Matsumoto, Japan

O-076 The treatment with quinidine of two epilepsy cases with KCN17 mutation
Taikan Oboshi1, Tokito Ymauchi, Yoshitomi Ikeda, Shinsaku Hiroko, Hideo Shigematsu, Yukitoji Tsuchiya, Yushi Inoue1
1. Department of Pediatrics, Graduate School of Medicine, Suita, Japan, 2. St. Mary’s Hospital, Fukuoka, Japan, 3. National Center of Neurology and Psychiatry, Tokyo, Japan

O-077 Two cases of early infantile epileptic encephalopathy with KCNQ2 mutation
Wakaba Endo1, Takezawa Yusuke1, Mai Aza3, Takehiko Inui4, Naomi Fujuyama5, Kazuhiro Iwamasa6, Hirotomo Saitsu3, Naomichi Matsumoto7, Kazuhiro Hagiwara8
1. Department of Pediatric Neurology, Takuto Rehabilitation Center for Children, Sendai, Japan, 2. Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan, 3. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

O-078 Retigabine attenuates seizures in Kcnq2 Mutant mice
Yukiko Ishara1, Yuko Tomonobu1, Deshimaru Masanobu2, Zhang Bo3, Taku Uchida4, Atsushi Ishii1, Shinichi Hirose1,4
1. Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan, 2. Department of Biochemistry, School of Medicine, Fukuoka University, Fukuoka, Japan, 3. Central Research Institute for the Molecular Pathomechanisms of Epilepsy, Fukuoka University, Fukuoka, Japan
Oral Presentation

Encephalitis and encephalopathy 2

007 Analysis of children with acute encephalopathy : 15–year experience at a single institution
Masaru Takayanagi1, Taro Kitamura1, Yu Aihara1, Mitsuji Moriya1, Rikio Suzuki1, Toshiyuki Nishio1, Katsuya Yamamoto2, Yoshihiro Ohura1
1.Division of Pediatrics, Sendai City Hospital, Sendai, Japan, 2.Nankodai Yamamoto Children's Clinic, Sendai, Japan

008 An association between the incidence of acute encephalitis/encephalopathy and local epidemic
Takako Misaki, Nobuhiro Okabe (Kawasaki Institute for Public Health, Kanagawa, Japan)

009 Underlying disorders in children with acute encephalitis/encephalopathy
Tomohiko Nakata1, Yu Okai1, Atsuko Ohno1, Yuji Ito2, Chikako Ogawa1, Hironori Kidokoro3, Tetsuo Kubota4, Takeshi Tsuji5, Naoki Ando6, Akihisa Okumura6, Sinji Saitoh4, Jyun Natsume5
1.Department of Pediatrics, Nagoya University, Aichi, Japan, 2.Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan, 3.Department of Pediatrics, Okazaki City Hospital, Okazaki, Japan, 4.Department of Neonatology and Pediatrics, Nagoya University Graduate School of Medical Sciences, Nagoya, Japan, 5.Department of Pediatrics, Aichi Medical University, Aichi, Japan

010 Clinical course and risk factors in 68 cases of acute encephalopathy
Atsuko Yamamoto1,2, Kentaro Shirai1, Akiko Haibara1, Akimitsu Watanabe1
1.Department of Pediatrics, Tsuchiura Kyodo General Hospital, Ibaraki, Japan, 2.Department of Pediatrics, Tokyo Kita Medical Center, Tokyo, Japan

011 A characteristic of near–infrared spectroscopy (NIRS) in acute encephalitis and encephalopathy
Yoshinobu Oyazato, Atsuko Kanagawa, Tomoshi Nakajiri, Sora Okita, Atsushi Nishiyama (Department of Pediatrics, Kakogawa West City Hospital, Hyogo, Japan)

012 The epidemiology and outcome of acute encephalitis and encephalopathy in Fukushima in Japan
Yukihiro Kawasaki, Yuichi Suzuki, Hiroki Tsukada, Asako kato, mitsuaki hosoya (Department of Pediatrics, Fukushima Medical University School of Medicine)

Neurodevelopmental disorders 2

031 Resting state activity of the cerebellum in children with ADHD
Yoshifumi Mizuno1,2, Minkyung Jung3, Takashi Fujisawa3, Daisuke Saito3, Hirota Ko Sakada1,3, Akemi Tomoda1,3
1.The Department of Child and Adolescent Psychology, Tokushima University School of Medicine, University of Fukui Hospital, Fukui, Japan, 2.United Graduate School of Child Development, Osaka University, Kanazawa University, Hamamatsu University School of Medicine, Chiba University and University of Fukui, Fukui, Japan, 3.Research Center for Child Mental Development, University of Fukui

032 Correlation between autonomic emotional response and executive function in children with AD/HD
Tetsuo Ohyama1, Yusuke Goto1, Yoshimi Kaga1, Kakuro Aoyagi1, Sayaka Ishii1, Hideaki Kanemura1, Kanji Sugita1, Masao Aihara1
1.Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, 2.Interdisciplinary Graduate School of Medicine, University of Yamanashi, Yamanashi, Japan

033 Effects of silent reading and reading aloud on the frontal lobe activity – an NIRS study –
Kenji Mori1, Hiromichi Ito2, Yoshitomo Tod2, Tatsuo Mori2, Yoko Abe2, Masahito Miyazaki2, Masafumi Harada3, Shoji Kagami2
1.Department of Child Health & Nursing, Tokushima University Graduate School, Tokushima, Japan, 2.Department of Pediatrics, Tokushima University Graduate School, Tokushima, Japan, 3.Department of Radiology, Tokushima University Graduate School, Tokushima, Japan

034 The efficacy of the RTI–model intervention for reading difficulties
Tatsuya Koeda1,3, Ayumi Seki4, Hisakazu Yanaka3, Yoriko Akao5, Hitoshi Uchiyama4

035 Brain activity in dyslexic child : using MEG
Kazuyori Yagyu1, Atsushi Shimojo2, Hideaki Shiraishi2, Michiru Iwata3, Ryusaku Hashimoto4, Ayumi Seki5, Harumitsu Murohashi6, Satoshi Suyama1, Takuya Saisho1
1.Department of Child and Adolescent Psychiatry, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, 2.Department of Pediatrics, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, 3.Faculty of Education, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, 4.Department of Psychology, Health sciences University of Hokkaido
Oral Presentation

Genetics 2

Chairs: Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University) Mari Matsuo (Tokyo Women's Medical University Institute of Medical Genetics)

O-055 Müllerian duct anomalies in Japanese patients with megalencephalic leukoencephalopathy with subcortical cysts
Shino Shimada1, Toshiyuki Yamamoto2, Keiko Shimogama3, Satoru Nagata1
1. Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2. Tokyo Women's Medical University Institute of Integrated Medical Sciences, Tokyo, Japan

O-056 Genetic and biochemical analyses for the diagnosis of mTOR pathway associated megalencephaly
Yutaka Negishi1, Fuyuki Miyazaki2, Akiko Hattori1, Ikumi Horii1, Naoki Ando1, Shinobu Fukumura1, Seiji Mizuno1, Ayako Umemura2, Yoko Kishimoto2, Tsunoda Tsunoda2, Yonehiro Kanemura2, Kenjiros Kosakijii, Shinni Saitoh
1. Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 2. Department of Medical Science Mathematics, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, 3. Department of Pediatrics, Sapporo Medical University School of Medicine, Sapporo, Japan, 4. Department of Pediatrics, Central Hospital, Aichi Human Service Center, Aichi, Japan, 5. Department of Pediatric Neurology, Central Hospital, Aichi Human Service Center, Aichi, Japan, 6. Department of Pediatrics, Shimada Ryoiku Center Hachioji, Tokyo, Japan, 7. Division of Regenerative Medicine, Institute for Clinical Research, Osaka National Hospital, National Hospital Organization, Osaka, Japan, 8. Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan

O-057 Treatment of everolimus for tuberous sclerosis
Kuriko Shimo1,2, Akihiko Watanabe2,3, Kanako Kishimoto2,3, Junpei Tanigawa2,3, Yoshiko Iwatani2,3, Kouji Tominaga1,2,3, Shin Natabatame4, Tsunoda Tsunoda2, Yonehiro Kanemura2, Kenjiros Kosakijii, Keiichi Ozonoyii, Keiko Tanabec
1. United Graduate School of Child Development, Osaka University, 2. Department of pediatrics, Osaka University Graduate School of Medicine, 3. Epilepsy Center, Osaka University Hospital, 4. Poole Gakuin University & College

O-058 Everolimus for subependymal giant cell astrocytoma or renal angiomyolipoma with tuberous sclerosis
Masatake Yonemura1, Noriko Nakamura2, Takuro Irokawa2, Keiko Tanabe3, Ayako Hattori1
1. Oncology 1 Disease Medical Area, Oncology Development & Medical Affairs, Novartis Pharma K.K., Tokyo, Japan, 2. Oncology Re-Examination Group, Re-Examination Department, Novartis Pharma K.K., Tokyo, Japan, 3. DS&E/PVO Japan Oncology Group, Novartis Pharma K.K., Tokyo, Japan

O-059 Searching drugs for Pelizaeus–Merzbacher disease targeting a novel cellular pathology
Ken Inoue1, Priyanthi Mangalii1, Ayako Nishizawa1, Heng Li2, Shoko Nakamura1, Hideyuki Sayas2, Yuichi Goto3, Schuichi Koizumi
1. Dept. Mental Retardation & Birth Defect Research, National Institute of Neuroscience, NCNP, Tokyo, Japan, 2. Institute of Advanced Medical Research, Keio Univ.

O-060 Mutations in IBA57 gene cause progressive cavitating leukoencephalopathy
Akihiko Ishiyama1,2, Yukari Endo1, Yoshiki Saitou1, Eiji Nakagawa1, Hitofumi Komaki1, Kenji Sugai1, Masayuki Sasaki1, Noriko Sato1, Yuichi Goto2, Ichiro Nishi2
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 Mental Retardation and Birth Defect Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan, 4. Department of Radiology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan

Epilepsy and convulsive diseases 2

Chairs: Harumi Yoshinaga (Department of Child Neurology, Okayama University Postgraduate School of Medicine), Shintaro Yamashita (Juntendo University Nerima Hospital)

O-079 Early onset response is a predictor of better outcome of vagus nerve stimulation therapy
Ayatake Fujimoto, Tohru Okanishi, Hirota Motoi, Sotaro Kanai, Takuya Yokota, Hideo Enoki
Seirei Hamamatsu General Hospital, Comprehensive Epilepsy Center, Japan

O-080 Activated microglia as a potential therapeutic target for epileptogenesis after status epilepticus
Fumikazu Sanos1,2, Eiji Shigetomi2, Schuichi Koizumi2, Hideaki Kanemura1, Ranji Sugita1, Masao Aihara1
1. Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, 2. Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine, University of Yamanashi, Yamanashi, Japan
O-082 TuberOus SClerosis registry to increAse disease awareness (TOSCA) : 2nd interim analysis results
Shin Nakatame1,2,3, Keiichi Ozono1,2,3, Yuji Ito1,2,3, Akito Watanabe1,2,3, Kazuhiro Kobayashi1,2,3, Junpei Tanigawa1,2,3, Kouji Tominaga1,2,3, Shin Nakatame1,2,3, Keiichi Ozono1,2,3
1.Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan, 2.Department of Child Development, United Graduate School of Child Development, Osaka University, Suita, Japan, 3.Osaka University Hospital Epilepsy Center

O-084 Clinical study of epilepsy surgery in children with tuberous sclerosis complex
Shinsuke Maruyama1,2,3, Ryosuke Hanaya2,3, Hiroshi Hosoyama2,3, Kenji Watanabe4, Kazuyuki Yotsumata4, Chihiro Yonee4, Nozomi San5, Toshiaki Otsubo5, Kazunori Arita5, Yoshifumi Kawano5

English Session
Room 6 10:45-11:45
Epilepsy and convulsive diseases 2

E-008 Effect of low dose everolimus on SEGA in tuberous sclerosis complex : volumetric study
Jun Natsume1,2,3, Chikako Ogawa2, Yuji It2, Yoko Sakaguchi2, Yu Okai2, Atsuko Ono2, Tomohiko Nakata2, Hiroyuki Kidokoro2, Tamiko Negoro2, Kazuhiro Watanabe2
1.Department of Developmental Disability Medicine, Nagoya University Graduate School of Medicine, Nagoya, Japan, 2.Department of Pediatrics, Nagoya University Graduate School of Medicine

E-009 Newly identified mutations in PIGG cause intellectual disability with seizures and hypotonia
Kazuyuki Nakamura1, Mitsuhiro Kato1, Periklis Makrythanasis4,5, Maha Zaki6, Hiromoto Saito6, Federico Santoni3,4, Satoko Miyatake6, Mitsuko Nakashima6, Naomiichi Matsumoto6, Hanan Hamamy3, Eamonn Sheridan3, Taroh Kinoshita3, Stylianos E Antonarakis4,5, Yoshiko Murakami6
1.Department of Pediatrics, Yamagata University Faculty of Medicine, Yamagata, Japan, 2.Department of Immunoregulation, Research Institute for Microbial Diseases, and World Premier International Immunology Frontier Research Center, Osaka University, 3.Department of Genetic Medicine and Development, University of Geneva, Geneva, Switzerland, 4.Service of Genetic Medicine, University Hospitals of Geneva, Geneva, Switzerland, 5.Department of Clinical Genetics, National Research Centre, Cairo, Egypt, 6.Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan, 7.Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan, 8.School of Medicine, University of Leeds, Leeds, United Kingdom

E-010 A retrospective study of convulsive pediatric patients taken to Uwajima City Hospital by ambulance
Kentaro Okamoto1,2,3, Mitsumasa Fukuda4
1.Department of Regional Pediatrics and Perinatology, Ehime University Graduate School of Medicine, Toon, Ehime, Japan, 2.Department of Pediatrics, Uwajima City Hospital, Uwajima, Ehime, Japan, 3.Department of Pediatrics, Ehime University Graduate School of Medicine, Toon, Ehime, Japan

E-011 HMGB1 enhances acquired epileptogenesis with astrocytosis after infantile prolonged febrile seizures
Masanori It1,2, Mitsumasa Fukuda1, Yano Yoshiaki1
1.Department of Pediatrics, Ehime University Graduate School of Medicine, Ehime, Japan, 2.Department of Molecular and Cellular Physiology, Ehime University Graduate School of Medicine, Ehime, Japan

E-012 Effective antiepileptic drugs for non–idiopathic focal epilepsies by precise seizure symptoms
Kenji Sugai1, Takashi Saito1, Eiji Nakagawa1, Yoko Motohashi1, Akihiko Ishiyama1, Eri Takeshita1, Hirofumi Komaki1, Masayuki Sasaki1, Taisuke Otsuki1
1.Department of Child Neurology, National Center of Neurology and Psychiatry, Kodaira, Japan, 2.Epilepsy Center, National Center of Neurology and Psychiatry, Kodaira, Japan
E-013  Poor efficacy of vagus nerve stimulation for epileptic spasms or tonic seizures
Tohru Okanishi¹, Takuya Yokota¹, Hideo Enoki¹, Ayataka Fujimoto², Takamichi Yamamoto³, Hirotaka Motoi¹, Soutaro Kanai¹
¹The Department of Child Neurology, Seirei-Hamamatsu General Hospital, Hamamatsu, Japan, ²Comprehensive Epilepsy Center, Seirei-Hamamatsu General Hospital

Special Lecture 2
Infantile spasms and West syndrome: how can we best improve long-term outcomes?
Chair: Hirokazu Oguni (Tokyo Women's Medical University)
Andrew L. Lux (Bristol Royal Hospital for Children, Bristol, UK)

Luncheon Seminar 1
Vigabatrin treatment for West syndrome
Chair: Yoko Otsuka (Asahigawa Rehabilitation and Medical Center, Department of Child Neurology)
Hirokazu Oguni (Department of Pediatrics, School of Medicine, Tokyo Women's Medical University)

Luncheon Seminar 2
Earlier consideration of surgical treatment for drug-resistant epilepsy in children: presurgical workups, surgical procedures, and outcome
Chair: Kenji Sugai (Department of Child Neurology, National Center of Neurology and Psychiatry)
Kensuke Kawai (Department of Neurosurgery, Jichi Medical University, Tochigi, Japan)

Luncheon Seminar 3
Recent advance on the treatment of pediatric epilepsy - cases and knowledge -
Chair: Takao Takahashi (Department of Pediatrics, Keio University school of Medicine)
The practice of therapy for intractable epilepsy in childhood
   Ryoko Honda (Department of Pediatrics, National Hospital Nagasaki Medical Center, Nagasaki, Japan)
Update on the pharmacologic management of common pediatric epilepsy syndromes
   Raman Sankar (Pediatric Neurology, David Geffen School of Medicine UCLA Los Angeles, California, USA)

Luncheon Seminar 4
Thyroid hormone and brain development
Chair: Hiroko Kodama (Teikyo Heisei University)
Kazumichi Oniagta (Shimane University Hospital Postgraduate Clinical Training Center)

Luncheon Seminar 5
Clinical pearls for early diagnosis of Gaucher’s disease
Chair: Torayuki Okuyama (National Center for Child Health and Development)
Clinical pearls for early diagnosis of Gaucher’s disease
   Narita Aya (Division of Child Neurology, Faculty of Medicine, Tottori University, Yonago, Japan)
The technique in making a diagnosis of myopathy in daily clinical practice
   Ishigaki Keiko (Department of Pediatrics, School of Medicine, Tokyo Women’s Medical University)

Luncheon Seminar 6
Monoaminergic neurotransmission of AD/HD
Chair: Hiroshi Tamai (Osaka Medical College, Department of Pediatrics)
Ichiro Sora (Department of Psychiatry Kobe University Graduate School of Medicine)
Luncheon Seminar 7

Room 7  12:50-13:50
(Sponsored by Yakult Honsha Co., Ltd.)

Gut microbiota and mental health
Chair: Yuichiro Yamashiro (Juntendo University School of Medicine)
Nobuyuki Sudo (Department of Psychosomatic Medicine, Graduate School of Medical Sciences, Kyushu University)

Luncheon Seminar 8

Room 8  12:50-13:50
(Sponsored by GE Healthcare Japan Corporation)

Cerebral palsy and fetal heart rate monitoring
Chair: Masahiro Hayakawa (Nagoya University Graduate School of Medicine)
Tomoaki Ikeda (Mie University Hospital)

Symposium 4

Room 1  14:00-15:40

Guidelines for acute encephalopathy proposed by the Japanese Society of Child Neurology
Chairs: Akihisa Okumura (Department of Pediatrics, Aichi Medical University), Jun-ichi Takahashi (Tokyo Women's Medical University Yachiyo Medical Center Department of Pediatrics)

Acute encephalopathy: epidemiology, diagnosis and therapy in Japan
  Masashi Mizuguchi (Department of Developmental Medical Sciences, The University of Tokyo, Tokyo, Japan)
Acute encephalopathy due to inherited metabolic disease
  Kei Murayama (Department of Metabolism, Chiba Children's Hospital)
EEG in children with acute encephalopathy
  Akihisa Okumura (Department of Pediatrics, Aichi Medical University, Nagakute, Japan)
Steroid pulse therapy and intravenous immunoglobulin therapy
  Takashi Ichiyama (Department of Pediatrics, Tsudumigaura Medical Center for Children with Disabilities, Yamaguchi, Japan)
Hypothermia therapy on acute encephalopathy in infancy and childhood
  Hideo Yamanouchi1, George Imataka2
  1. Department of Pediatrics, Saitama Medical University, 2. Department of Pediatrics, Dokkyo Medical University School of Medicine, Tochigi, Japan

Symposium 5

Room 2  14:00-15:40

Current topics of medical care for children with neurodevelopmental disorders
Chairs: Tasuku Miyajima (Faculty of Child Studies Department of Education for Childcare, Tokyo Kasei University, Saitama, Japan), Tatsuya Koeda (Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan)

Genetic and environmental factors associated with neurodevelopmental disorders: Overview
  Takeo Kubota (Department of Pediatrics, Anjo Kosei Hospital)
How understand the symptoms of neurodevelopmental disorders from the viewpoint of person concerned
  Junichi Furusho, Yusuke Isozaki (College of Education, human studies and psychology Aoyamagakuin University)
An overview of recent clinical neuroimaging in developmental disorders
  Kazuyo Tanji1, Haruhiisa Ota1, Ryuichiro Hashimoto1,3, Nobumasa Kato1,2
  1. Medical Institute of Developmental Disabilities Research, Showa University, Tokyo, Japan 2. Seiwa Hospital, Institute of Neuropsychiatry, Tokyo, Japan 3. Department of Language Sciences, Tokyo Metropolitan University, Tokyo, Japan
Biological basis of neurodevelopmental disorders
  Toru Takumi (RIKEN Brain Science Institute, Wako, Japan)
**Symposium 6**

Let's join in rehabilitation for children!

Chairs: Hiroshi Arai (Department of Pediatric Neurology, Morinomiya Hospital), Hiroshi Ozawa (Shimada Ryoiku Center Hachioji)

PEDIATRIC REHABILITATION: GENERAL STATEMENT ESPECIALLY TEAM APPROACH

Mana Kurihara (The Kanagawa Rehabilitation Center)

REVOLUTION OF REHABILITATION FOR CEREBRAL PALSY BY PEDIATRIC NEUROLOGISTS

Hiroshi Arai (Department of Pediatric Neurology, Morinomiya Hospital)

REHABILITATION IN PEDIATRIC CRITICAL CARE MEDICINE

Naoki Shimizu¹, Sahoko Miyama²

1. Department of Paediatric Emergency & Critical Care Medicine, Tokyo Metropolitan Children's Medical Centre, Tokyo, Japan
2. Division of Neurology, Tokyo Metropolitan Children's Medical Centre, Tokyo, Japan

CONTINUOUS REHABILITATION AID FOR THE PATIENTS WITH NEUROSURGICAL DISEASES

Yuichiro Nonaka, Ai Masumoto (Division of Pediatric Neurosurgery, Department of Neurosurgery, Jikei university, Tokyo, Japan)

REHABILITATION FOR CHILDREN WITH ACQUIRED BRAIN INJURY

Manabu Yoshihashi (The department of pediatrics, Kanagawa rehabilitation center, Kanagawa, Japan)

**Oral Presentation**

**ENCEPHALITIS AND ENCEPHALOPATHY 3**

Chairs: Yukitoshi Takahashi (Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan), Yasuhiro Suzuki (Department of Pediatric Neurology, Osaka Medical Center and Research Institute for Maternal and Child Health)

O-013 The sequelae of status epilepticus could control by combination of BZPs and NKCC1 inhibitor

Keisuke Nakajima¹,², Shinobu Hirai³, Haruo Okado¹

1. Department of Brain Development and Neural Regeneration, Neural Development Project, Tokyo Metropolitan Institute of Medical Science, Japan, 2. Tokyo Medical and Dental University, Tokyo, Japan

O-014 Development of the rapid and quantitative anti-MOG autoantibody assay using flow cytometry

Kuniko Kohyama, Ayuko Igarashi, Tomonori Suzuki, Hiroshi Sakuma (Mental Development project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan)

O-015 Barbtrurate—coma therapy in the treatment of acute encephalopathy

Yusuke Ishida¹, Kazumi Tomioka², Tsukasa Tanaka¹, Masahiro Nishiyama², Kyoko Fujita¹, Daisaku Toyoshima¹, Azusa Maruyama¹, Hiroaki Nagase², Hiroki Takeda³, Yoshiyuki Uetani³

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 Critical Care Medicine, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan

O-016 Comparison of cyclosporine blood concentrations of brain hypothermia therapy in acute encephalopathy

Yuh Fujiwara, Hioki Kaba, Hirotaka Motoi, Yoshihiro Watanabe, Soyoko Takeshita (Children's Medical Center, Yokohama City University, Yokohama, Japan)

O-017 The analysis of prognostic factors for AEFCSE

Masataka Fukuoka¹, Hisashi Kawawaki¹, Ichiro Hirayama¹, Kiyohiro Kin¹, Yuka Hattori¹, Hitomi Tsuji¹, Megumi Nukui¹, Shin Okazaki¹, Junichi Ishikawa¹,², Kiyoko Amou¹,², Masao Togawa², Hiroshi Rinka³, Kiyotaka Tomiwa⁴, Masashi Shiomizu⁵

1. The Department of Neuropediatrics, Osaka City General Hospital, Osaka, Japan, 2. The Pediatric Emergency Department of Osaka City General Hospital, Osaka, Japan, 3. The Emergency Department of Osaka City General Hospital, Osaka, Japan, 4. The Department of Pediatrics, Toudaiji Medical and Educational Center, Nara, Japan, 5. The Department of Pediatrics, Aizenbashi Hospital, Osaka, Japan

O-018 Early predictors of acute encephalopathy—associated mortality and morbidity in children

Chizu Oba¹, Mitsuhiro Kashiwagi¹, Takuya Tanabe², Motoko Ogino¹, Syuhi Shimakawa³, Hiroshi Tamai³

1. Hirakata city hospital, Osaka, Japan, 2. Tanabe child clinic, Osaka, Japan, 3. Osaka medical college hospital, Osaka, Japan

**Oral Presentation**

**NEURODEVELOPMENTAL DISORDERS**

Chairs: Tamiko Negoro (Faculty of Child Development, NIHON FUKUSHI UNIVERSITY), Kyoko Hirasawa (Dept of Pediatrics, Tokyo women's Medical University)

O-037 Comprehensive analyses of RBFOX1, a “hub” gene in the ASD gene transcriptome network

Koh-Ichi Nagata, Nanako Hamada, Hidenori Ito, Hidenori Tabata (Department of Molecular Neurobiology, Institute for Developmental Research, Aichi Human Service Center)
O-038  Study on the development of joint attention in low-risk very and extremely low birth weight infants
Noriko Yamaoka1,2, Satoshi Takada1
1.Graduate School of Health Sciences, Kobe University, Kobe, Japan, 2.Kobe Tokiwa University, Kobe, Japan

O-039  Analysis of questionnaire of triage and assessment (QTA) and next subject
Ishii Ryuta1, Sinichirou Nagamitsu1, Junichi Furusyo2, Yuushirou Yamashita1, Hitokanta Tanaka3
1.The Department of medicine, University of Kurume, Hukuoka, Japan, 2.The Department of Education, Psychology and Human Studies, Aoyama Gakuin University, Tokyo, Japan, 3.Orthostatic Dysregulation Hypotension Clinic, Tanaka, Osaka, Japan

O-040  Evaluation and intervention into cognitive dysfunction in childhood cancer survivors
Megumi Nukui1,2, Kaori Nagayasu1, Yumiko Kusuma2, Maaya Ooshi1, Kiyohiro Kin1, Masatake Hakuoka1, Ichiro Kuki1, Shin Okazaki1, Masako Okada1, Keiko Okada1, Hisashi Kawakami1, Tunemasa Aiba2, Yusukichi Harai1,2
1.The Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan, 2.The Department of Pediatric Speech Therapy, Osaka City General Hospital, Osaka, Japan, 3.The Department of Pediatric Oncology, Osaka City General Hospital, Osaka, Japan

O-041  Diagnosis and outcome of children with motor developmental delay who visit to our outpatient service
Yumiko Takashima, Azusa Ikeda, Keiko Watanabe, Yu Tsuyusaki, Kazumi Tsuji, Mizue Iai, Sumimasa Yamashita, Tomohide Goto (Division of Neurology, Kanagawa Children’s Medical Center, Yokohama, Japan)

O-042  Developmental prognosis of “sitting on the air” and shuffling babies
Takehiko Miyamoto, Hidetoshi Ishigaki (Department of Pediatrics, Hamamatsu Medical Center)

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**English Session**

**Genetics**

Chair: Kenjiro Kosaki (Center for Medical Genetics Keio University School of Medicine), Mitsuhiro Kato (Showa University)

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E-014 Exome analyses identify the first mutations in Japanese patients with Bardet—Biedl syndrome
Makoto Hirano1,2, Wataru Satake3, Kenji Ihara3, Ikuya Tsuge5, Yuuta Suzuki6, Yosuke Nakamura1, Susumu Kusunoki2, Tatsushi Toda3
1.Department of Neurology, Sakai Hospital, Kinki University, Sakai, Japan, 2.Department of Neurology, Kinki University, Osaka, Japan, 3.Division of Neurology/Molecular Brain Science, Kobe University Graduate School of Medicine, Kobe, Japan, 4.Department of Pediatrics, Faculty of Medicine, Oita University, Yufu, Japan, 5.Department of Pediatrics, Fujita Health University, Toyoake, Japan, 6.Division of Computational Biology, Graduate School of Frontier Sciences, The University of Tokyo, Kashiwa, Japan

E-015 A child presenting distinct phenotype in severe alternating hemiplegia with a novel ATP1A3 mutations
Naoko Ishihara1, Misa Miyake1, Yoshihiko Hayakawa1, Tetsushi Yoshikawa1, Hidehito Inagaki2, Hiroki Kurahashi2
1.Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan, 2.Division of Molecular Genetics, Institute for Comprehensive Medical Science, Fujita Health University, Toyoake, Japan

E-016 A female case of Warsaw breakage syndrome showing microcephaly with simplified gyral pattern
Karin Kojima1, Yuri Kuroiwa1, Kei Watanabe1, Masako Nagashima1, Nan Jia1, Yuka Nakazawa6, Hiromitsu Saitsu4, Naomichi Matsumoto2, Tomoo Og13, Mitsuhito Kata14, Hitoshi Osaka1, Takanori Yamagata2
1.The Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 2.Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Kanazawa, Japan, 3.Division of Genetics, Research Institute of Environmental Medicine, Nagoya University, Nagoya, Aichi, Japan, 4.Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan, 5.Department of Pediatrics, Yamagata University Faculty of Medicine, Yamagata, Japan, 6.Division of Genome Repair, Atomic Bomb Disease Institute, Nagasaki University, Nagasaki, Japan

E-017 Gene therapy for a mouse model of glucose transporter—1 deficiency syndrome
Sachie Nakamura1, Hitoshi Osaka1, Shin Ichi Muramatsu23, Naomi Takino1, Shiko Aoki1, Erika Jimbo2, Kuniko Shimazaki2, Tatsushi Onaka1, Sumio Ohtsuki2, Tetsuya Terasaki2, Takanori Yamagata2
1.Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 2.Division of Neurology, Jichi Medical University, Tochigi, Japan, 3.Division of Neurosurgery, Jichi Medical University, Tochigi, Japan, 4.Division of Brain and Neurophysiology, Department of Physiology, Jichi Medical University, Tochigi, Japan, 5.Division of Pharmaceutical Microbiology, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, 6.Division of Membrane Transport and Drug Targeting, Graduate School of Pharmaceutical Sciences, Tohoku University, Sendai, Japan, 7.Center for Gene and Cell Therapy, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan

E-018 CRISPR/Cas9 genome editing for cellular modeling of microcephaly
Ganeshwaran Hitoshi Mochida1,2, Tojo Nakayama1, Dylan Vaughan1, Anna Rajab3, Atiyah Al Zahrani4, Mert Mestanoglu4, Elizabeth Ross5, Chiara Manzini6, Jennifer Partlow1, Sean Hill1
1.Division of Genetics and Genomics, Manton Center for Orphan Disease Research, Boston Children’s Hospital, Boston, MA, USA, 2.Pediatric Neurology Unit, Massachusetts General Hospital, Boston, MA, USA, 3.National Genetics Center, Ministry of Health, Muscat, Sultanate of Oman, 4.Neuroanatology, King Fahad Medical City, Riyadh, Kingdom of Saudi Arabia, 5.Neuroscience, Weill Cornell Medical College, New York, NY, USA, 6.Department of Pharmacology and Physiology, The George Washington University, Washington, DC, USA
E-019  Reelin coupled with myelin may play a role in long—term maintenance of myelin
Kimiko Deguchi1,2, Takao Honda2, Ken-Ichihiro Kubo2, Kazunori Nakajima2, Ken Inoue1
1.Deguchi Pediatric Clinic, Nagasaki, Japan, 2.Department of Anatomy, Keio University School of Medicine, Tokyo, Japan,
3.National Institute of Neuroscience, NCNP, Dept. of Mental Retardation and Birth Defect Research

Oral Presentation

Malformation and chromosome aberration

Chair(s): Akihiko Tateno (Division of Neurology, Department of Internal Medicine, Sakura Medical Center, Toho University.),
Takanori Yamagata (Jichi Medical University, Department of Pediatrics.)

O-061  Brain morphologic analysis in Gorlin syndrome
Tadashi Shiohama1, Katsunori Fujii1, Toshiyuki Miyashita2, Hideki Uchikawa1,2, Hiromi Mizuuchi1,2, Hajime Ikehara1,
Toshiyuki Fukuhara1, Naoki Shimoi1
1.Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan, 2.Department of Molecular
Genetics, Kitasato University School of Medicine, Kanagawa, Japan, 3.Department of Pediatrics, Eastern Chiba Medical
Center, Chiba, Japan

O-062  Neurological co-morbidity in children with neurofibromatosis type 1
Keiko Hirahara, Muneki Matsuo (Saga University Hospital, Saga, Japan)

O-063  A case of CODAS syndrome with regression and progressive cerebral atrophy
Takehiko Inui1, Mai Anzai1, Takezawa Yusuke1, Wakaha Enod1, Keisuke Wukasawa2, Soichiro Tanaka3, Chihiro Ohba4,
Hirotomo Saito5, Naomichi Matsumoto4, Kazuhiro Haginoya1
1.Department of Pediatric Neurology, Takuto Rehabilitation Center for Children, Sendai, Japan, 2.Research Center for
Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, 3.Department of Pediatrics,
Tohoku University School of Medicine, Sendai, Japan, 4.Department of Human Genetics, Yokohama City University
Graduate School of Medicine, Yokohama, Japan

O-064  Clinical features and treatment outcome of periventricular nodular heterotopia
Takao Komatsubara1, Shinichi Magara1, Yu Kobayashi1, Kenichi Okazaki1, Jun Tounta1, Naoya Hasegawa2, Hiroshi
Shirouzu3, Hiroshi Masuda3, Masashi Hukuda3
1.Nishi Niigata Chuo National Hospital, Niigata, Japan, 2.Nishi Niigata Chuo National Hospital, Niigata, Japan

O-065  A patient with the deletion of 7p21.1 in Saethre–Chotzen syndrome
Hiroko Shimbo1, Tatsuki Oyoshi2, Kenji Kurosawa3
1.Clinical Research Institute, Kanagawa Children’s Medical Center, Yokohama, Japan, 2.Department of Neurosurgery,
Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima, Japan, 3.Department of Medical
Genetics, Kanagawa Children’s Medical Center, Yokohama, Japan

O-066  Effects of in utero exposure to valproate on murine cerebral cortical histogenesis
Kimino Fujimura1, Takayuki Mitsushashi1, Shinsuke Shibata2, Sachiko Shimozato1, Takao Takahashi1
1.Department of Pediatrics, School of Medicine, Keio University, Tokyo, Japan, 2.Department of Physiology, School of
Medicine, Keio University, Tokyo, Japan

Oral Presentation

Epilepsy and convulsive diseases 3

Chair(s): Shinichi Hirose (Fukuoka University), Shinichiro Hamano (Division of Neurology, Saitama Children’s Medical Center)

O-085  Study on refractoriness to ACTH therapy in West syndrome based on the ictal EEG of spasms
Shibuya Ikuhiko, Kenji Sugai, Eri Takeshita, Yuko Motohashi, Akiko Ishiyama, Takashi Saito, Hirofumi Komaki, Eiji
Nakagawa, Masayuki Sasaki (Department of Child Neurology, National Center Hospital, National Center of Neurology
and Psychiatry, Tokyo, Japan)

O-086  Treatment and seizure outcome of West syndrome in patients with Leigh syndrome
Takeshi Ono, Kenji Sugai, Eri Takeshita, Yoko Motohashi, Akiko Ishiyama, Takashi Saito, Hirofumi Komaki, Eiji
Nakagawa, Masayuki Sasaki (Department of Child Neurology, National Center Hospital, National Center of Neurology
and Psychiatry, Tokyo, Japan)

O-087  Clinical study of 11 patients with benign infantile seizure
Hidekazu Tachibana1,2, Chizuru Nishizato2, Takumi Okada2, Tomoyuki Shimazu2, Hiroe Ueno2, Hoseki Imamura3, Takaaki
Sawada3
1.Kumamoto city hospital, 2.Kumamoto Saishunso National Hospital, 3.Minamata City General Hospital and Medical
Center

O-088  Utility of the screening test for early diagnosis of Dravet syndrome
Mari Akiyama1,2, Yumiko Hayashi1,2, Fumika Endoh1,2, Harumi Yoshinaga1,2,3, Katsuhiko Kobayashi1,2,3
1.Department of Child Neurology, Okayama University Hospital, Okayama, Japan, 2.Epilepsy Center, Okayama University
Hospital, Okayama, Japan, 3.Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry
and Pharmaceutical Sciences
O-099 Efficacy of steroid pulse therapy in epilepsy with continuous spike and waves during sleep
Shinichi Magara, Takao Komatsubara, Yu Kobayashi, Kennichi Okazaki, Jun Tohyama (Nishi-Niigata Chuo National Hospital, Niigata, Japan)

O-090 Effective antiepileptic drugs for epilepsy in Angelman syndrome
Yui Otani, Hidaka Oguni, Aiko Nishihikawa, Kaoru Eto, Susumu Ito, Makoto Funatsuka, Kyoko Hirasawa, Satoru Nagata
1. Tokyo Women's Medical University, Tokyo, Japan, 2. Matsudo clinic

Oral Presentation
Infection and immunity

Chairs: Mitsuaki Hosoya (Department of Pediatrics, Fukushima Medical University), Yoshihiro Maegaki (Division of Child Neurology, Department of Brain and Neurosciences, Tottori University)

O-019 Usefulness of anti-MOG antibody as a therapeutic biomarker in ADEM followed by optic neuritis
Yuji Hashimoto, Toshiyuki Takahashi, Yuzo Tanabe, Toshihiro Suzuki, Kimihiko Kaneko, Toshiaki Jibiki, Masaki Kanazawa, Masaru Terai
1. Department of Pediatrics, Chiba Kaihin Municipal Hospital, Chiba, Japan, 2. Department of Neurology, Tohoku University School of Medicine, Miyagi, Japan, 3. Department of Neurology, Yonezawa National Hospital, Yamagata, Japan, 4. Soga Pediatric Clinic, Chiba, Japan, 5. Department of Pediatrics, Tokyo Metropolitan Tsubaki Medical Center, Tokyo, Japan

O-020 Serial monitoring of serum BAFF levels in childhood-onset ocular myasthenia gravis
Mitsuo Motobayashi, Takafumi Nishimura, Makoto Nishioha, Yoichiro Kawasaki, Yuji Inaba
1. Department of Neonatology, Shinshu University School of Medicine, Matsumoto, Japan, 2. Department of Pediatrics, National Hospital Organization Matsumoto Medical Center, Matsumoto, Japan, 3. Department of Pediatrics, Shinshu University School of Medicine, Matsumoto, Japan

O-021 Type I interferon response induced by transfected self DNA
Ayuko Igarashi, Hiroshi Sakuma, Tomonori Suzuki, Kuniko Koyama, Shinpei Abe, Mitsuru Ikeno, Masatoshi Takagi, Akihisa Okumura, Toshiaki Shimizu, Masaharu Hayashi
1. Department Of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, 2. Department of Pediatrics, Juntendo University Faculty of Medicine, Tokyo, Japan, 3. Department of Pediatrics, Tokyo Medical and Dental University, Tokyo, Japan, 4. Department of Pediatrics, Aichi Medical University, Aichi, Japan

O-022 Nine cases in patients with early childhood onset myasthenia gravis
Kazuya Itomi, Motomasa Suzuki, Yuusuke Aoki, Syo Narahara (The Department of Neurology, Aichi Children's Health and Medical Center, Obu, Japan)

O-023 Time-course study by brain MRI focused on recovery phase in pediatric demyelinating disease
Makoto Nishioha, Yuji Inaba, Syoko Yamauchi, Yoichiro Kawasaki, Mitsuo Motobayashi, Naoko Siba (Department of Pediatrics, University of Shinshu, Nagano, Japan)

O-024 Plasma exchange in pediatric neurological disorder
Kiyohiro Kimi, Hisashi Kawasaki, Masataka Fukuoka, Yuko Hattori, Hitomi Tsujii, Megumi Nukui, Ichiro Kuki, Shin Okazaki, Junichi Ishikawa, Kiyoko Amo, Masao Togawa, Koji Rinka, Yasunori Otusaka, Atsushi Ujiro, Hideki Shimada
1. The Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan, 2. The Department of Pediatric Emergency, Osaka City General Hospital, Osaka, Japan, 3. The Department of Emergency, Osaka City General Hospital, Osaka, Japan, 4. The Department of Critical Care, Osaka City General Hospital, Osaka, Japan

Oral Presentation
Muscular diseases

Chairs: Shigemi Kimura (Kumamoto city child Department support center), Yasuhiro Takeshima (Hyogo College of Medicine)

O-043 The gross motor function measure is a valid for Fukuyama congenital muscular dystrophy
Takatoshi Sato, Michiru Adachi, Terumi Murakami, Kumiko Ishiguro, Minobu Shichiji, Masaya Zushi, Kazo Nakamura, Keisuke Goto, Tetsuo Ikai, Izumi Kondo, Satoru Nagata, Keiko Ishigaki
1. Department of Pediatrics, School of Medicine, Tokyo Women's Medical University, 2. Department of Rehabilitation, School of Medicine, Tokyo Women's Medical University, 3. Department of Rehabilitation Medicine, National Hospital for Geriatrics Medicine

O-044 Correlation between MRI STIR image of lower limbs and BIA in the natural course of FCMD patients
Terumi Murakami, Takahiro Nakayama, Michiru Adachi, Kumiko Ishiguro, Takatoshi Sato, Minobu Shitii, Tomoka Uchiyama, Satoshi Kuru, Satoru Nagata, Keiko Ishigaki
1. Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2. Department of Neurology, Yokohama Rosai Hospital, Yokohama, Japan, 3. Department of Rehabilitation, Tokyo Women's Medical University, 4. TANITA Body Weight Scientific Institute, Tokyo, Japan, 5. Department of Neurology, National Hospital Organization Suzuka National Hospital, Mie, Japan
O-045 Duchenne muscular dystrophy case with splice donor site mutation in intron 64
Hiroiuki Awano1, Masaaki Matsumoto1, Kazumi Tomioka1, Ai Unzaki1, Masahiro Nishiyama1, Tomoko Lee2, Hiroaki Nagase1, Mariko Ikeda1, Mariko Yagi1, Yasuhiro Takeshima2, Masafumi Matsuo1, Kazumoto Iijima1
1.Department of Pediatrics, Kobe Graduate School of Medicine. Kobe, Japan, 2.Department of Pediatrics, Hyogo College of Medicine, Nishinomiya, Japan, 3.Nikoniko House Center, Kobe, Japan, 4.Department of Physical Therapy, Faculty of Rehabilitation, Kobegakuin University, Kobe, Japan

O-046 Disaster preparedness in patients of muscular dystrophy: a questionnaire survey
Sayaka Kato1, Ayako Hattori1, Kikumi Mizuno1, Shinji Saitoh1, Kenji Yazawa2, Hisanobu Kaitani2
1.Department of Neonatology and Pediatrics, Nagoya City University Graduate school of Medical Sciences, Nagoya, Japan, 2.The Japan Muscular Dystrophy Association, Tokyo, Japan

O-047 A pediatric case of anti-HMG-CoA reductase antibody–associated autoimmune myopathy
Hisashi Ishibashi1, Takeshi Inoue1, Ryoko Otani1, Nobuyuki Murakami1, Ryoichi Sakuta1, Ichizo Nishino2
1.Department of Pediatrics, Dokkyo Medical University Koshigaya Hospital, 2.Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan

O-048 ENA antisense oligonucleotide improved 6-minute walk distance in Duchenne muscular dystrophy
Tomoko Lee1, Hideki Shimomura1, Hiroiuki Awano2, Kazumoto Iijima2, Masafumi Matsuo3, Yasuhiro Takeshima1
1.Department of Pediatrics, Kobe Graduate School of Medicine, Nishinomiya, Japan, 2.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 3.Department of Medical Rehabilitation, Kobegakuin University, Kobe, Japan

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**English Session Room 6 15:00-16:00**

**Neuroimaging**

Chairs: A. James Barkovich (University of California, San Francisco UCSF—Benioff Children’s Hospital, USA), Masayuki Sasaki (Department of Child Neurology, National Center of Neurology and Psychiatry)

E-020 Transient increase of fractional anisotropy in acute reversible encephalopathy
Shihoko Kimura-Ohba, Yi Yang, Gary Rosenberg (University of New Mexico, HSC, Department of Neurology)

E-021 Mucolipidosis IV: a milder form with novel mutations and serial MRI findings
Takashi Shiihara1, Yasuhiro Maruyama2, Mio Watanabe1, Kengo Moriyama1, Mitsugu Uematsu3, Atsuo Kikuchi3, Natsuko Arai-Ichinoi3, Kyoko Shigemasa4
1.Department of Neurology, Gunma Children’s Medical Center, Gunma, Japan, 2.Department of Ophthalmology, Kiryu Kosei General Hospital, Gunma, Japan, 3.Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan, 4.Division of Medical Genetics, Gunma Children’s Medical Center, Gunma, Japan

E-022 Brain MRI findings in patients with alternating hemiplegia of childhood
Masayuki Sasaki1, Atsushi Ishii2, Yoshiaki Saito3, Shinichi Hirose2
1.Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Pediatrics, Fukuoka University School of Medicine, Fukuoka, Japan, 3.Division of Child Neurology, Tottori University School of Medicine, Yonago, Japan

E-023 Maturational change of GABAergic system measured with 123I–iomazenil SPECT
Satoru Ikemoto1,2, Hidano Shin-Ichiroyo1,3, Erika Hiwatari1, Yuki Hira1, Ryuki Mastuura1, Kenjiro Kikuchi2, Reiko Koichi1, Manabu Tanaka1, Motoyuki Minamimichi1
1.Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan, 2.Department of Pediatrics, Jikei University School of Medicine, Tokyo, Japan, 3.Division of Child Health and Human Development, Saitama Children’s Medical Center, Saitama, Japan

E-024 The neural effects of intranasal oxytocin administration in reactive attachment disorder
Shinichiro Takiguchi1, Takashi X. Fujisawa2, Sakae Mizushima3, Daisuke Saito4, Koji Shimada2,4, Yuko Okamoto2, Yoshifumi Mizuno1,2, Hirotaka Kosaka1,2,3, Akemi Tomoda1,2
1.Department of Child and Adolescent Psychological Medicine, University of Fuku University Hospital, Fuku, Japan, 2.Research Center for Child Mental Development, University of Fuku, Fuku, Japan, 3.Division of Developmental Higher Brain Functions, United Graduate School of Child Development, University of Fuku, Fuku, Japan, 4.Biomedical Imaging Research Center, University of Fuku, Fuku, Japan, 5.Department of Neuropsychiatry, Faculty of Medical Sciences, University of Fuku, Fuku, Japan

E-025 Focal cortical dysplasia at the bottom of sulcus on advanced dynamic statistical parametric mapping
Midori Nakajima, Ayako Ochi, Hiroshi Otsubo (Division of Neurology, The Hospital for Sick Children, Toronto, Ontario, Canada)
Oral Presentation

Epilepsy and convulsive diseases 4

Chairs: Hidenori Kanemura (Department of Pediatrics, Faculty of Medicine, University of Yamanashi), Satoshi Araki (Department of Pediatrics, National Center for Child Health and Development)

O-091 Psychogenic non-epileptic seizures in 31 children confirmed by video–EEG monitoring
Ryo Ueda, Kenji Sugai, Takashi Saito, Yuko Motohashi, Eri Takeshita, Akihiko Ishiyama, Eiji Nakagawa, Hirohumi Komaki, Masayuki Sasaki, Satoko Kumada, Ai Unzaki, Hiro Yokota, Hisao Murakami, Hideki Fukuda

O-092 Efficacy and CNS depression of second–line treatment in children with status epilepticus
Masahiro Nishiyama, Hiroaki Nagase, Yusuke Ishida, Tsukasa Tanaka, Koichi Fujita, Daisaku Toyoshima, Azusa Murayama, Masaaki Matsumoto, Kazumi Tomioka, Ai Unzaki, Hiroko Awano, Hiroki Takeda, Yoshiyuki Uetani, Satoshi Takada, Kazuhiro Ichioka

O-093 Tolerability of LTG andLEV in pediatric epileptic patients with autistic spectrum disorders
Nobuhiro Yashikawa, Hiroo Tani, Yoshiyuki Kobayashi, Yuji Fujii, Masao Kobayashi (Department of Pediatrics, Hiroshima University Hospital, Hiroshima, Japan)
O-094  Quality of life in children with epilepsy assessed by J–KIDSCREEN–52
Yasuko Furuichi1, Takafumi Sakakibara2,3, Satoko Nezu3, Norio Kurumatani4, Toru Hoshida5, Mariko Seki6, Seiji Kinoshita1, Yasufumi Imanaka5, Hiroyuki Naka6, Naoyuki Morii7, Takashi Yamashita8, Chikako Yamashita8, Hirosho Shimoyama9, Midori Shima1
1.Higashiosaka City General Hospital, Higashiosaka City, Osaka, Japan, 2.Department of Pediatrics, Nara Medical University, Kashihara City, Nara, Japan, 3.Department of Community Health and Epidemiology, Nara Medical University, Kashihara City, Nara, Japan, 4.National Hospital Organization, Nara Medical Center, Nara City, Nara, Japan, 5.Imanaka children’s Hospital, Fuse City, Osaka, Japan, 6.Naka children’s hospital, Yamatokooriyama City, Nara, Japan, 7.Morii children’s Hospital, Nara City, Nara, Japan, 8.Yamashita children’s Hospital, Kizu City, Kyoto, Japan, 9.Shimoyama children’s Hospital, Yao City, Osaka, Japan

O-095  Clinical analysis of febrile seizures after 7 years of age
Taichi Imaizumi1,2, Yusaku Miyamoto1,2, Kanako Takeda1,2, Hisako Yamamoto1,2, Yusuke Miyaji1,2, Takahiro Kojima1,2, Hitoshi Yamamoto2
1.Kawasaki Municipal Tama Hospital, Department of Pediatrics, Kanagawa, Japan, 2.St. Marianna University School of Medicine, Department of Pediatrics, Kanagawa, Japan

O-096  Nocturnal frontal lobe epilepsy misdiagnosed as sleep apnea syndrome and psychogenic reaction
Hiroyasu Nakagawa1, Mondo Kuroda2, Akiko Kato2, Iku Ikeno2, Ayano Yokoi3, Yusuke Mitani2, Yo Niida3
1.Department of Pediatrics, Asanogawa General Hospital, Kanazawa, Japan, 2.Department of Pediatrics, Kanazawa University, Kanazawa, Japan, 3.Center for Medical Genetics, Kanazawa Medical University Hospital, Uchinada, Japan

The Japanese Society of Child Neurology 40th Anniversary Ceremony  Room 1  16:30-16:45

Commemorative Symposium  Room 1  16:45-17:45
Sports are the source of children’s brain development
Chairs: Shinichi Niijima (Juntendo University Nerima Hospital, Mariko Momoi (International University of Health and Welfare)

The new sport administration
Daichi Suzuki (Japan Sports Agency)
A physical activity program enhance children motivation and brain function called Yanagisawa method
Akitaka Yanagisawa, Matsumoto (Junior College, Nagano, Japan)
Effect of daily exercise on the development of the cardiovascular center – New insights into the mechanism of anti-lifestyle-related disease –
Hidefumi Waki (Juntendp University Graduate School of Health and Sports Science, Chiba, Japan)

Committee’s Seminar 2  Room 4  18:10-20:10
What you want to know more about medical and social service in child neurology
Chairs: Shinichi Niijima (Juntendo University Nerima Hospital, Mariko Momoi (International University of Health and Welfare)

Guideline of invalidity pension
Hidemi Iwasaka (Center for Special Needs Education, Nara University of Education, Nara, Japan)
Social welfare services useful for pople with epilepsy
Hidemoto Kubota (National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)

The 1st research meeting of the pediatric autoimmune neuropsychiatric disorders  Room 6  19:00-21:00

The 10th meeting of Japanese Child Sleep Association  Room 7  19:30-21:00
The 58th Annual Meeting of the Japanese Society of Child Neurology

June 4th

Morning Session

Room 5  7:10-8:40

Exploration of age-related brain mechanisms using multiple neuroimaging modalities
   Chairs: Shinya Miyamoto (Faculty of Human Sciences, University of Tsukuba), Yukifumi Monden (Department of Pediatrics, Jichi medical University)
   Typical and atypical development of face recognition
   Masami Yamaguchi (Department of Psychology, Chuo University, Tokyo, Japan)
   An investigation of social development using eye tracking
   Akemi Tomoda (Research Center for Child Mental Development, University of Fukui, Fukui, Japan)
   Age-related cortical representation for healthy control and AD/HD children using fNIRS study
   Yukifumi Monden (Department of Pediatrics, Jichi Medical University, Tochigi, Japan, International University of Health and Welfare Hospital, Tochigi, Japan)
   An exploration of neural substrates of self-regulation in preadolescence
   Naohiro Okada (Department of Neuropsychiatry, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

Morning Seminar 1

Room 3  7:30-8:20
(Sponsored by TAKATA Pharmaceutical Co., Ltd.)

How can we utilize the Clinical Guideline 2015 of febrile seizure?
Chair: Jun Natsume (Nagoya University Graduate School of Medicine)
Shin-Ichiro Hamano (Division of Neurology, Saitama Childrens Medical Center, Saitama, Japan)

Morning Seminar 2

Room 4  7:30-8:20
(Sponsored by Eisai Co., Ltd.)

Lecture using seizure videos for the Peranpanel treatment in the intractable epilepsy
Chair: Katsuhiro Kobayashi (Saitama Childrens Medical Center)
Yukitoshi Takahashi (National epilepsy center, Shizuoka institute of epilepsy and neurological disorders, NHO)

The 8th Annual Meeting of Japanese Society for Pediatric immune-mediated brain deseases

Room 6  7:30-8:30

Committee's Seminar

Room 7  7:30-8:40

Seminar from Minor Committee of Japan Obstetric Compensation System
Chairs: Atsuo Nezu (Yokohama Residential Care and Medical Centre for Developmentally Disabled Person), Tetsuho Kubota (Department of Pediatrics, Anjo Kosei Hospital)

The current situation and issues of the Japan Obstetric Compensation System
Shigeru Ueda (Japan Council for Quality Health Care)
Candidate selection of severe cerebral palsy for the Japan Obstetric Compensation System
Kiyoshi Matsui, Koji Tanoue
Division of General medicine, Kanagawa Children's Medical Center, Yokohama, Japan
Some topics on medical certificate charges: institutional difference by questionnaire survey with counselor
Nobuyoshi Mimaki (Kurashiki Medical Center, Kurashiki, Okayama, Japan)
**Committee’s Seminar**

Part 1: The reports of the collaborative studies supported by the Japanese Society of Child Neurology
Chairs: Kazuhiro Haginoya (Department of Neurosurgery, Takuto Rehabilitation Center, Miyagi Children’s Hospital), Masafumi Morimoto (Department of Pediatric, Kyoto Prefectural University of Medicine)

Clinical study of ATR-X syndrome
Takahito Wada1, Norifumi Shioda2, Koji Fukunaga2, Hiroshi Sugiyama3, Hideyuki Tanabe4, Nobuhiko Okamoto5, Kenji Kurosawa2, Yuko Shimbo6
1. Department of Medical Ethics and Medical Genetics, Kyoto University Graduate School of Medicine, Kyoto, Japan 2. Takken University Graduate School of Pharmacology, Sendai, Japan, 3. Kyoto University Graduate School of Science, Kyoto, Japan, 4. The Graduate University for Advanced Studies, Hayama, Japan, 5. Osaka Medica Center and Research Institute for Maternal and Child Health, Izumi, Japan, 6. Kanazawa Children’s Medical Center, Yokohama, Japan

Clinical study of cerebral creatine deficiency syndrome
Takahito Wada1, Hitoshi Osaka2, Noriko Aida3, Tomohide Goto4, Yu Tsuyusaki4, Hiroko Shimbo4, Hidekazu Kato5, Kyoko Takano6, Sumio Otsuki7, Shingo Ito8, Masanori Tachikawa6, Yuko Kurosawa9
1. Kyoto University Graduate School of Medicine, Department of Medical Ethics and Medical Genetics, Kyoto, Japan 2. Department of Pediatrics, Jichi Medical University, Shimotsuke, Japan, 3. Department of Radiology, Kanagawa Children's Medical Center, Yokohama, Japan, 4. Department of Neurology, Kanagawa Children’s Medical Center, Yokohama, Japan, 5. Kanagawa Psychiatric Center, Yokohama, Japan, 6. Department of Medical Genetics/ Preventive Medicine, Shinsui University Scho ol of Medicine, Matsumoto, Japan, 7. Kumamoto University, Faculty of Life Science, 8. Tohoku University Graduate School of Pharmacology, 9. Department of Sports Medicine for Health Promotion, Tokyo Medical University

Clinical entities of progressive white matter disorders and genetic diagnosis
Toshiyuki Yamamoto1, Masafumi Morimoto2, Kenji Orie3, Hiroshi Doi4, Ryuta Tanaka5, Hirofumi Yasshita6
1. Tokyo Women’s Medical University Institute for Integrated Medical Sciences, Tokyo, Japan, 2. Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, 3. Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, 4. Department of Clinical Neurology and Stroke Medicine, Yokohama City University, Yokohama, 5. Department of Child Health, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, 6. Department of Neurology, Kyoto University Graduate School of Medicine, Kyoto

**Special Lecture 3 - Fukuyama Memorial Lecture**

Progress and challenges in the understanding of early epileptic encephalopathies
Chair: Makiko Osawa (Tokyo Women’s Medical University)
Raman Sankar (Pediatric Neurology, David Geffen School of Medicine UCLA Los Angeles, California, USA)

**Oral Presentation**

**Metabolic disease**

Chairs: Hiroyuki Ida (Department of Pediatrics, The Jikei University School of Medicine), Haruo Shintaku (Osaka City University Graduate School of Medicine (Department of Pediatrics))

O-097 Screening for inherited GPI deficiency by quantification of GPI-anchored proteins in sera
Yukitoshi Takahashi1, Shigeko Nishimura1, Emiko Takao1, Risa Kasai1, Kaoru Enokida1, Yushi Inoue1, Yoshiko Murakami2, Taro Kinoshita1, Norimitsu Inoue3, Ichiro Kuki1, Yasuhiro Suzuki4, Junpei Tanaka5, Rumiko Takayama6
1. National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorder, NHO, Japan, 2. Research Institute for Microbial Diseases, Osaka University, 3. Osaka Medical Center for Cancer and Cardiovascular Diseases, Japan, 4. Osaka City General Hospital, Japan, 5. Osaka Medical center and research Institute for Maternal and Child Health, Japan, 6. Department of Pediatrics, Graduate School of Medicine, Osaka University, Japan, 7. Department of Pediatrics, Tohoku University School of Medicine, Japan, 8. Takuto Rehabilitation Center for Children, Japan, 9. Hokkaido medical Center for Child Health and Rehabilitation, Japan

O-098 Reduction of VLCFAs in CSF can be a useful prognosis predictor of HCT in ALD patients
Mitsuo Motobayashi1, Makoto Nishioka2, Yoichiro Kawasaki2, Nobuyuki Shizomawa3, Yuji Inaba2
1. Department of Neonatology, Shinshu University School of Medicine, Matsumoto, Japan, 2. Department of Pediatrics, Shinshu University School of Medicine, Matsumoto, Japan, 3. Division of Genomics Research, Life Science Research Center, Gifu University, Gifu, Japan

O-099 GDF–15 is a useful biomarker of screening and therapeutic response for mitochondria disease
Mitsugu Uematsu1, Tetsuro Matsumashi2, Yurika Uematsu1, Tomoko Kobayashi1, Hitoshi Osaka2, Shigeo Kure1, Takaaki Abe3
1. Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan, 2. Department of Pediatrics, Jichi Medical School, 3. Division of Medical Science, Tohoku University Graduate School of Biomedical Engineering, Sendai, Japan

O-100  NPC: plasma oxysterol and lysosphingomyelin–509 as potential biomarker measured by tandem MS
Yoshikatsu Eto1, Takeo Iwamoto2, Wu Chen1, Ayumi Takamura3, Miwa Fujisaki1, Masuyoshi Kashiwazaki1, Kaoru Eto1, Norio Sakai1
1. Advanced Clinical Research Center, Southern Tohoku Brain Research Institute, Kawasaki, Japan, 2. Core Laboratory Medicine, Tokyo Jikei University School of Medicine, Tokyo, Japan, 3. Department of Biological Regulation, School of Health Science, Tottori University School of Medicine, Yonago, Japan, 4. Department of Pediatrics, Tokyo Women’s Medical School, 5. Department of Child Health, School of Health Science, Osaka University School of Medicine, Osaka, Japan

O-101  Neurological features in patients with hypophosphatasia
Jun Mine1, Takeshi Takekata1,2, Kazuaki Tukamoto1, Kazuaki Kishi1, Seiji Yamaguchi1
1. The Department of Pediatrics, Shimane University School of Medicine, Izumo, Japan, 2. Division of Blood Transfusion, Shimane University Hospital, Izumo, Japan

O-102  Treatment for Wilson disease with neurololgic symptoms, data analysis for MC–Bank registration system
Norikazu Shizumizu1, Ayako Ogawa1, Noriko Mishima1, Hiroe Konishi1, Joohyun Seo1, Torayuki Okuyama2, Tsugutoshi Aoki1
1. Department of Pediatrics, Toho University School of Medicine, Ohashi Medical Center, Tokyo, Japan, 2. Clinical Laboratory Medicine, National Center for Child Health and Development, Tokyo, Japan

Oral Presentation

Peripheral Nerve

Chairs: Hirofumi Komaki (National Center of Neurology and Psychiatry), Tatsuo Fuchigami (Department of Pediatrics, Nihon University Hospital)

O-126  MRI finding and blood-nerve barrier damage of acute flaccid monoplegia of nine cases
Ryuki Matsuura1,2, Shin-Ichiro Hamano1, Erika Hiwatari1, Satoru Ikemoto1,2, Yuko Hirata1,2, Kotoko Suzuki1,2, Reiko Koichihara1, Kenjiro Kikuchi2, Manabu Tanaka3, Motoyuki Minamitani1
1. Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan, 2. Division of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan, 3. Division of Child Health and Human Development, Saitama Children’s Medical Center, Saitama, Japan

O-127  A basic research of the treatment of spinal muscular atrophy fibroblast using TRH
Koki Nkaido, Kentaro Kawamura, Shinobu Fukumura, Nobutada Tachi (The Department of Pediatrics, Sapporo Medical University, Sapporo, Japan)

O-128  A nationwide survey of Guillain–Barrè syndrome, Fisher syndrome, Bickerstaff brainstem encephalitis
Hajime Ikehara1, Katsunori Fuji1, Tomoyuki Fukuwara1, Mayuko Fujita1, Hiromi Mizuochi1,2, Tadashi Shiohama1, Hideki Uchikawa1, Naoki Shimoy1
1. Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan, 2. Department of Pediatrics, Eastern Chiba Medical Center, Chiba, Japan

O-129  A survey of Guillain–Barrè syndrome, Fisher syndrome, and Bickerstaff brainstem encephalitis
Tomoyuki Fukuwara, Katsunori Fuji, Mayuko Fujita, Hajime Ikehara, Hiromi Mizuochi, Tadashi Shiohama, Hideki Uchikawa, Naoki Shimoy (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

O-130  Genetic heterogeneity of patients with central and peripheral involvement of motor neuron
Kazuhiro Hagiwara1, Takehiko Inui1, Wakaba Endo1, Mai Anzai1, Yusuke Takezawa1, Hiroto Saito2
1. Department of Pediatric Neurology, Tokuk Rehabilitation Center for Children, Sendai, Japan, 2. Department of Genetics, Yokohama City University

Neuroimaging

Chairs: Kenji Mori (Department of Child Health & Nursing, Tokushima University Graduate School), Muneaki Matsuo (Department of Pediatrics, Saga University, Faculty of Medicine)

O-137  A novel TUBB3 mutation in a sporadic patient with asymmetric cortical dysplasia
Keiko Shimojima1, Nobuhiko Okamoto2, Toshiyuki Yamamoto1
1. Tokyo Women’s Medical University Institute for Integrated Medical Sciences, Tokyo, Japan, 2. Department of Medical Genetics, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan

O-138  Follow-up brain MRI findings in a girl with genetically diagnosed BPAN
Tao Ikeda1, Ryouko Hayashi1, Sadami Kimura1, Yukiko Mogami1, Keiko Yanagihara1, Nobuhiko Okamoto2, Tatsujir Hasegawa3, Yasuhiro Suzuki3
1. Osaka Medical Center and Research Institute for Maternal and Child Health, 2. Osaka Medical Center and Research Institute for Maternal and Child Health, 3. Department of Pediatrics, Kyoto Prefectural University of Medicine

O-139  The cases of spinal MRI due to paralytic lower extremities
Masato Hiyane, Tsuyoshi Matsuoka, Masaharu Ohfu (Division of Child Neurology, Okinawa Prefectural southern medical center & children’s medical center, Okinawa, Japan)
O-140  Brain imaging and evoked potential characteristics of 7 patients with MECP2 duplication syndrome
Michio Inoue, Shinpei Baba, Akihiko Ishiyama, Eri Takeshita, Yoko Motohashi, Takashi Saitou, Hirohumi Komaki, Eiji
Nakagawa, Kenji Sugai, Masayuki Sasaki (Department of Child Neurology, National Center Hospital, National Center of
Neurology and Psychiatry, Tokyo, Japan)

O-141  MR spectroscopy and arterial spin labeling MRI during stroke like episodes in patients with MELAS
Ken Nakajima, Ryoko Hayashi, Tae Ikeda, Sadami Kimura, Yukiko Mogami, Keiko Yanagihara, Yasuhiro Suzuki (Osaka
Medical Center and Research Institute for Maternal and Child Health, OSAKA, JAPAN)

O-142  Transient T1 hyperintense lesions in ADEM
Yusuke Kawanaka1, Kumiko Ando1, Yoko Igarashi1, Takayuki Katnrua1, Yuki Wakata1, Reiichi Ishikura1, Junichirou Ono2,
Toshihiro Takada3, Shozo Hirota1
1. Department of radiology, Hyogo College of Medicine, Hyogo, Japan, 2. Meiwa hospital, Hyogo, Japan, 3. Department of
Pediatrics, Hyogo College of Medicine, Hyogo, Japan

Symposium 7
Young Investigator’s Session

Chairs: Takao Takahashi (Department of Pediatrics, Keio University school of Medicine), Shinichi Niijima (Juntendo
University Nerima Hospital)

Acute encephalitis with refractory, repetitive partial seizures: the history of the 30 years
Hiroshi Sakuma, (Tokyo Metropolitan Institute of Medical)

Modeling human neurological diseases with induced pluripotent stem cells
Wado Akamatsu, (Juntendo University School of Medicine)

Towards establishment of the diagnostic system for neurometabolic diseases
Tomoyuki Akiyama, (Okayama University Hospital)

With creative, enthusiasm and intellectual curiosity, develop medical research for future children
Kazuhiro Muramoto, (Gunma University Graduate School of Medicine)

Antisense therapy for Fukuyama type congenital muscular dystrophy
Mariko Ikeda (Kobe University Graduate School of Medicine)

Committee’s Seminar

Part 2: Meet the experts: Future collaborative study of Japan Society of Child Neurology.
Chairs: Masafumi Morimoto (Department of Pediatric, Kyoto Prefectural University of Medicine), Shinji Saitoh (Department of
Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences)

AMED mission: challenge starts with IRUD
Makoto Suematsu, (Japan Agency for Medical Research and Development)

Collaboration between the Japanese Society of Child Neurology and Initiative on Rare and Undiagnosed Diseases in
Pediatrics IRUD-P
Yoichi Matsubara, (National Center for Child Health and Development, Tokyo, Japan)

Symposium 8

Tuberous Sclerosis: Management - UpToDate
Chairs: Kosaku Ohno (Japan Labour, Health and Welfare Organization Sanin Rosai Hospital), Okio Hino (Juntendo
University Faculty of Medicine) Dept. Pathology and Oncology

Drug therapy for autism in tuberous sclerosis complex
Masashi Mizuguchi (Department of Developmental Medical Sciences, The University of Tokyo, Tokyo, Japan)

Epilepsy surgery for patients with tuberous sclerosis
Hidenori Sugano1, Shinichi Niijima2, Madoka Nakajima1, Shinpei Abe1, Mitsuru Ikono1, Ayuko Igarashi1, Shintaro
Yamashita2, Mika Nakazawa1
1. The Department of Neurosurgery, Juntendo University, Tokyo, Japan 2. The Department of Pediatrics, Juntendo
University, Nerima Hospital, Tokyo, Japan

Central role of child neurologist in team medical care for tuberous sclerosis
Tohru Okanishi (Department of Child Neurology, Seirei-Hamamatsu General Hospital)

Diagnosis and management of renal angiomyolipoma associated with tuberous sclerosis complex in Japan
Takashi Hatano (The Department of Urology, JR Tokyo General Hospital, Tokyo, Japan)

Novel mechanism and therapeutics for tuberous sclerosis complex
Kanato Yamagata (Synaptic Plasticity Project, Tokyo Metropolitan Institute of Medical Science)
Symposium 9
Prospective role of child neurologist on patients with severe motor and intellectual disabilities in ten years
Chairs: Masao Kumode (Biwakogakuen Kusatsu Medical and Welfare Center), Nobuaki Iwasaki (Ibaraki Prefectural University of Health Science)

A better future for children with severe disabilities—activities of the Committee on Medically fragile/Technology dependent Children and Youth, Japan Pediatric Society—
Tadashi Matsubasa (The chair of Severe Motor and Intellectual Disabilities, Kumamoto University Hospital, Kumamoto, Japan)

Cultivation of health care providers for severe motor and intellectual disability patients and construction of local medical treatment/welfare cooperation network system
Yoshihiro Maegaki, Akiko Tamasaki (Division of Child Neurology, Faculty of Medicine, Tottori University, Tottori, Japan)

Who provides medical cares for the persons with SMID severe motor and intellectual disabilities throughout their lifetime
Kiyokuni Miura (Department of Pediatric Neurology, Toyota Municipal Child Development Center, Toyota, Japan)

Welfare services and supports for children with disabilities and their families
Nobuhide Oonishi (Ministry of Health, Labour and Welfare, Support Office for the children with disabilities and persons with developmental disorders, Tokyo, Japan)

My parental dreams for future health care for the profoundly disabled
Mami Kodama (Cares Japan, Tokyo, Japan)

Oral Presentation
Vascular disorder

Chairs: Shigeo Kure (Department of Pediatrics, Tohoku University School of Medicine), Mana Kurihara (Department of Pediatrics, The Kanagawa Rehabilitation Center)

O-103 Two cases of cerebral infarction due to cerebral arterial dissection
Yuki Anzai, Yumie Tamura, Kenshi Sei, Jyun Kohyama (Department of pediatrics, Tokyo Bay Urayasu Ichikawa Medical Center, Chiba, Japan)

O-104 A case of multisystemic smooth muscle dysfunction with ACTA2 mutation
Go Takei, Yuu Kakimoto, Akiko Yakuwa, Tadayuki Kumagai, Satoshi Takenaka, Hiroshi Terashima, Masaya Kubota, Rika Kosaki, Yoshiyuki Tatsuumi
1. Division of Neurology, National Center for Child Health and Development, Tokyo, Japan, 2. Division of Medical Genetics, National Center for Child Health and Development, Tokyo, Japan, 3. Department of Radiology, National Center for Child Health and Development, Tokyo, Japan

O-105 Study of prognostic factors in patients with pediatric moyamoya disease
Kazuo Kodama, Taku Omata, Yukiko Iida, Yoshimi Watanabe, Chiaki Ito, Osamu Numata, Ryo Ando, Hiroaki Date
1. Division of Child Neurology, Chiba Children's Hospital, Chiba, Japan, 2. Division of Neurosurgery, Chiba Children's Hospital, Chiba, Japan

O-106 Assessment of cognitive function in children with cerebrovascular disease using DN-CAS
Takeya Awashima, Mana Kurihara, Yoshimichi Ariga, Manabu Yoshihashi, Chieko Iino, Tositaka Kohagizawa, Katsuki Kawakami, Dahei Shirakawa, Toshiko Saito, Yuka Ozeki
1. The Department of Pediatrics, The Kanagawa Rehabilitation Center, Kanagawa, Japan, 2. The Department of Psychology, The Kanagawa Rehabilitation Center, Kanagawa, Japan

O-107 Clinico–radiological features in six cases of cerebral sinus venous thrombosis
Azusa Ikeda, Yumiko Takashima, Keiko Watanabe, Yu Tsuyusaki, Kazuhi Ichikawa, Megumi Tsuji, Mizue Iai, Sumimasa Yamashita, Noriko Aida, Tomohide Goto
1. Division of Neurology, Kanagawa Children's Medical Center, Yokohama, Japan, 2. Division of Radiology, Kanagawa Children's Medical Center, Yokohama, Japan

O-108 Unilateral spatial neglect in children with cerebrovascular disease
Masamichi Ariga, Mana Kurihara, Manabu Yoshihashi, Takeya Awashima, Chieko Iino, Toshitaka Kohagisawa (The Kanagawa Rehabilitation Center, Kanagawa, Japan)
Oral Presentation
Neurophysiology
Chairs: Masaharu Ohfu (Division of Child Neurology, Okinawa Prefectural Southern Medical Center, Children's Medical Center), Masaya Kubota (Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

O-131  PLEDs as the severity of posterior reversible encephalopathy syndrome (PRES)
Masaharu Ohfu, Masato Hiyane, Tsuyoshi Matsuoka (Division of Child Neurology, Okinawa prefectural southern children's Medical Center, Okinawa, Japan)

O-132  The decrease of HFO along with improvement of epilepsy –A new biomarker in epilepsy treatment–
Tetsuro Nagasawa, Hiroshi Terashima, Masaya Kubota
1. Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo, Japan, 2. Department of Neurology, National Center for Child Health and Development, Tokyo, Japan

O-133  Electrophysiological studies of peripheral nerves in merosin–deficient congenital muscular dystrophy
Yoshikiko Saito, Akihiko Ishiyama, Eri Takeshita, Yuko Motohashi, Takashi Saito, Eiji Nakagawa, Hirofumi Komaki, Kenji Sugai, Masayuki Sasaki (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

O-134  Non–expert use of aEEG and DSA for seizure identification in the pediatric intensive care unit
Atsuko Ohno, Yuu Okai, Youko Sakaguchi, Yuji Ito, Chikako Ogawa, Tomohiko Nakata, Hiroyuki Kidokoro, Tamiko Negoro, Kazuyoshi Watanabe, Jyun Natsume (Department of Pediatrics, Nagoya University, Aichi, Japan)

O-135  Eighty cases examined by simplified polysomnography at Shimada Ryoiku Center Hachiouji
Yuri Ozawa, Yoshiko Nomura, Kaoru Amemiya, Youko Kisimoto, Ayako Tsumita, Yukiko Nakamura, Hiroshi Ozawa
(Shimada Ryoiku Center Hachiouji (Institution for Persons with Severe Motor and Intellectual Disabilities), Tokyo, Japan)

O-136  Utility of long–term video–EEG monitoring for evaluation of epilepsy
Tatsuyuki Sokoda, Jun Matsui, Noriko Nishikura, Seiichiro Yoshioka, Tomoyuki Takano, Yoshihiro Takeuchi
1. The Department of Pediatrics, University of Shiga Medical Science, Shiga, Japan, 2. Ritto Yoshioka Children's clinic

Oral Presentation
Neurosurgery
Chairs: Nobuhito Morota (Division of Neurosurgery, Tokyo Metropolitan Children's Medical Center), Hiroaki Sakamoto (Department of Neurosurgery, Osaka City University Graduate School of Medicine)

O-143  Deep brain stimulation for secondary dystonia caused by perinatal and neonatal brain insults
Tomoko Mizuno, Satoko Kumada, Hiroya Nishida, Shunpei Uchino, Yasuo Hachiya, Eiji Kurihara, Motomasa Suzuki, Makoto Taniguchi, Fusako Yokochi
1. The Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan, 2. The Department of Neurology, Aichi Children's Health and Medical Center, Aichi, Japan, 3. The Department of Neurosurgery, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan, 4. The Department of Neurosurgery, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan

O-144  Classification and therapeutic outcome in 96 cases with Sturge–Weber syndrome
Madoka Nakajima, Hidenori Sugano, Shinpei Abe, Mitsuru Ikeno, Ayuko Igarashi, Mika Nakazawa, Shinichi Niijima, Shintarou Yamashita
1. The Department of Neurosurgery, Juntendo University School of Medicine, Tokyo, Japan, 2. The Department of Pediatric, Juntendo University, Tokyo, Japan, 3. The Department of Pediatric, Juntendo Nerima Hospital, Tokyo, Japan

O-145  Intrathecal baclofen therapy for severe spasticity
Shoko Shimokawa, Fumitaka Yoshioka, Yukiko Nakahara, Jyun Masuoka, Masatou Kawashima, Tatsuya Abe, Muneaki Matsuo, Hisayuki Maeda, Daisuke Tajima, Keiko Hirabaru
1. The Department of Neurosurgery, Saga University, Saga, Japan, 2. The Department of Pediatric, Saga University, Saga, Japan

O-146  Genetic analysis in Dandy–Walker malformation
Atsuko Harada, Fuyuki Miya, Hitotsuna Utsunomiya, Takumi Yamanaka, Yamato Yoshikawa, Michiko Miki, Tomoko Shofuda, Mitsuhiro Katō, Shinji Saito, Nobuhiko Okamoto, Kenjiro Kosaki, Tatsuhiko Tsuchida, Yonehiro Kanemura, Mami Yamasaki
1. Department of pediatric neurosurgery, Takatsuki General Hospital, Osaka, Japan, 2. Department of Medical Science Mathematics, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, 3. Department of Radiological Science, International University of Health and Welfare, Graduate School, Fukuoka, Japan, 4. Department of Ophthalmology, Takatsuki General Hospital, Osaka, Japan, 5. Division of Stem Cell Research, Institute for Clinical Research, Osaka National Hospital, Osaka, Japan, 6. Department of Pediatrics, Showa University, School of Medicine, Tokyo, Japan, 7. Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 8. Department of Medical Genetics, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan, 9. Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan, 10. Division of Regenerative Medicine, Institute for Clinical Research, Osaka National Hospital, Osaka, Japan
O-147 Volumetric analysis of infratentorial bone remodeling in occipital distraction
Fumitaka Yoshioka¹, Shouko Shimokawa¹, Ryo Ebashi¹, Yukinori Takase¹, Yukiko Nakahara¹, Jun Masuoka¹, Masatou Kawashima¹, Tatsuya Abe¹, Tetsuji Uemura², Muneaki Matsuo³
¹.Department of Neurosurgery, Faculty of Medicine, Saga University, Saga, Japan, ².Department of Plastic and Reconstructive Surgery, Faculty of Medicine, Saga University, Saga, Japan, ³.Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan

O-148 Management for achondroplasia patients with foramen magnum stenosis
Yasuhiro Matsusaka¹, Hiroaki Sakamoto¹, Shin Okazaki², Ichirou Kuki², Hisashi Kawawaki²
¹.Department of Pediatric Neurosurgery, Osaka city general hospital, Osaka, Japan, ².Department of Pediatric Neurology, Osaka city general hospital, Osaka, Japan

Luncheon Seminar 9 Room 1 11:50-12:50
(Sponsored by Eli Lilly Japan K.K.)
ADHD medications explained
Chair: Akira Yoneyama (National Rehabilitation Center for Children with Disabilities)
Masutomo Miyao (Donguri Psycho Developmental Clinic for Developmental Disorders)

Luncheon Seminar 10 Room 2 11:50-12:50
(Sponsored by Otsuka Pharmaceutical Co., Ltd.)
Carnitine deficiency hidden around here and somewhere
Chair: Yuichi Goto (National Center of Neurology and Psychiatry)
Akira Ohtake (Department of Pediatrics, Saitama Medical University)

Luncheon Seminar 11 Room 3 11:50-12:50
(Sponsored by Novartis Pharma K.K.)
Chair: Masakazu Mimaki (Teikyo University School of Medicine)
Current management of tuberous sclerosis
Ichiro Kuki (The Department of Pediatric Neurology, Osaka City General Hospital, Osaka City, Japan)
Team medical treatment of tuberous sclerosis complex according to natural course
Maegaki Yoshihiro (Division of Child Neurology, Faculty of Medicine, Tottori University, Tottori, Japan)

Luncheon Seminar 12 Room 4 11:50-12:50
(Sponsored by Kyowa Hakko Kirin Co., Ltd.)
How can you approach the first seizure?
Chair: Hitoshi Yamamoto (St. Marianna University School of Medicine)
Hideo Enoki (Department of Child Neurology, Comprehensive Epilepsy center, Seirei Hamamatsu General Hospital, Hamamatsu, Japan)

Luncheon Seminar 13 Room 5 11:50-12:50
(Sponsored by Actelion Pharmaceuticals Japan Ltd.)
Chair: Tsutomu Takahashi (Akita University Graduate School of Medicine and Faculty of Medicine)
Yu Tsuchiyusaki (Division of Neurology, Kanagawa Childrens Medical Center, Yokohama, Japan)
Nishiki Makioka (Department of Pediatrics, Gunma University Graduate School of Medicine, Gunma, Japan)

Luncheon Seminar 14 Room 6 11:50-12:50
(Sponsored by JCR Pharmaceuticals Co., Ltd.)
Pediatric neurology and pediatric endocrinology: Interdisciplinary collaboration
Chair: Tatsuro Izumi (Department of Pediatrics, National Nanao Hospital, Nanao)
Tonomasu Hasegawa (Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan)
Symposium 10  Room 2  13:00-14:50
Problems of transition to adulthood in children with epilepsy
Chairs: Hitoshi Yamamoto (Department of Pediatrics, St.Marianna University School of Medicine), Kenji Sugai (Department of Child Neurology, National Center of Neurology and Psychiatry)

Problem of transition to adult hospital department in adult patients with childhood epilepsy
Shimpei Abe (The Department of Pediatrics, Juntendo University School of Medicine, Tokyo, Japan)

Transition from children's to adult services in epilepsy care
Nobukazu Nakasato (Department of Epileptology, Tohoku University Graduate School of Medicine, Sendai, Japan)

Successful bridging from childhood to adult for people with Epilepsy
Masako Watanabe (Shinjuku Neuro Clinic, Tokyo, Japan)

Need—to—know psychiatric disorders associated with epilepsy
Yoshiko Hirano (The Department of Psychiatry, Japanese Red Cross Narita Hospital, Chiba, Japan / Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo, Japan)

Symposium 11  Room 3  13:00-14:50
Update understanding of pathogenesis of the disorders in child neurology
Chairs: Shinichi Hirose (Fukuoka University), Toshiyuki Yamamoto (Tokyo Women's Medical University Institute for Integrated Medical Sciences (TIIMS))

Update on PCDH19 female epilepsy
Norimichi Higurashi1,2, Shinichi Hirose2,3
1.Department of Pediatrics, Jikei University School of Medicine, Tokyo, Japan 2.Central Research Institute for the Pathomechanisms of Epilepsy, Fukuoka University, Fukuoka, Japan, 3.Department of Pediatrics, Fukuoka University School of Medicine, Fukuoka, Japan

mTORopathies: disorders of signal transduction and molecular target therapy
Mitsuhiro Kato (Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan)

Comprehensive genetic and genomic analysis
Toshiyuki Yamamoto (Tokyo Women's Medical University Institute for Integrated Medical Sciences, Tokyo, Japan)

Up—to—date understanding of Rasmussen syndrome
Yukitoshi Takahashi (National epilepsy center, Shizuoka institute of epilepsy and neurological disorders, NHO)

Symposium 12  Room 4  13:00-14:50
Pediatric neuroradiology in the post genomic era
Chairs: Shigeki Aoki (Department of Radiology, Juntendo University), Noriko Aida (Kanagawa Children's Medical Center Radiology)

Advanced brain MRI technique and diagnosis by gene analysis in pediatric neurological disease
Mitsuru Ikeno (Department of Pediatrics, Juntendo University School of Medicine, Tokyo, Japan)

Brain metabolism investigated with MR spectroscopy
Jun—ichi Takarnashi (Department of Pediatrics, Tokyo Women's Medical University, Yachiy Medical Center, Yachiyo, Japan)

Snap diagnosis of congenital metabolic diseases
Hiroshi Oba (Department of Radiology, Teikyo University Hospital)

MRI of Neurometabolic Disorders
A. James Barkovich (University of California, San Francisco UCSF—Benioff Children's Hospital, USA)

Oral Presentation  Room 5  11:50-12:50
Cerebral palsy and rehabilitation
Chairs: Hiroshi Arai (Department of Pediatric Neurology,Morinomiya Hospital), Atsuo Nezu (Yokohama Residential Care and Medical Centre for Developmentally Disabled Person)

O-109  Questionnaire survey on dental problems in xeroderma pigmentosum and Cockayne’s syndrome
Masaharu Hayashi (The Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan)

O-110  The correlation between the urinary secretion of melatonin and antioxidant in SMID
Yumi Okoshi1, Naoyuki Tanuma1, Michio Fukumizu1, Rie Miyata2, Hiroshi Sakuma2, Masaharu Hayashi2
1.The Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo, Japan, 2.The Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

O-111  The age—appropriate assessment of disability persons with eating dysfunction
Ayako Umemura, Yuki Maki, Keitaro Yamada, Koitchi Maruyama, Kosaburou Aso (Department of Pediatric Neurology, Central Hospital, Aichi Human Service Center, Aichi, Japan)
The 58th Annual Meeting of the Japanese Society of Child Neurology

O-112 Lower respiratory tract infection and the measures in severely disabled children with prolonged TPPV
Keitaro Yamada1, Yuki Makı1, Ayako Umemura1, Kouichi Maruyama2, Kouzaburo Aso2
1.Department of Pediatric Neurology, Aichi Prefectural Colony Central Hospital, Kasugai, Aichi, 2.Aichi Prefectural Colony
Kobato institution, Kasugai, Aichi

O-113 Analysis of intrapulmonary percussive ventilator intervention for severe disabled children
Haruka Ooguro, Tatsuo Ito, Tomohiro Nakayama, Hitomi Maeda, Junko Nakayama, Kenji Shin, Nobuaki Iwasaki (Ibaraki
Prefectural University of Health Sciences Hospital, Ami, Japan)

O-114 A pilot study for sequential motor learning in children with developmental coordination disorder
Eriko Kitahara1, Tomomi Sukigara1, Hiromi Namiki1, Tomomi Oishi1, Satoshi Iwahashi1, Mariko Hosozawa2, Hiromichi
Shoji2, Masanori Nagoaka3
1. Department of Rehabilitation, Juntendo University Hospital, 2. Department of Pediatrics, Juntendo University Hospital,
3. Department of Rehabilition Medicine, Juntendo University

Special Lecture 4
Olfactory development and dysgenesis in fetus and neonate
Chair: Osuke Iwata (Kurume University)
Harvey B. Sarnat (Paediatrics, Pathology (Neuropathology) and Clinical Neurosciences University of Calgary and Alberta
Children's Hospital Calgary, Alberta, Canada)

Committee's Workshop
What should child neurologists in Japan do ten years later (in 2025) ?
Chairs: Jun Kohyama (Public Interest Incorporated Association, JAPAN Association for Development of community Medicine,
Tokyo Bay Urayasu Ichikawa), Akemi Tomoda (Research Center for Child Development, University of Fukui)

Oral Presentation
Disabilities support and music therapy
Chairs: Satoshi Takada (Graduate School of Health Sciences, Kobe University), Naomitsu Suzuki (Department of
Pediatrics, Tsukuba Clinic for Mental Sick Children & Adolescents)

O-115 Effectiveness of HABIT & a Robotic Suit HAL® on physical functions in a child with hemiplegia
Yoko Matsumoto, Mariko Yagi, Mio Nishimura, Yoko Kawasaki (Department of Pediatrics, NikoNiko House Medical and
Welfare Center)

O-116 Music therapy for the children with developmental disorders
Naomitsu Suzuki (Tsukuba Clinic for Mental Sick Children & Adolescents, Ibaraki, Japan)
O-117  Switching equipment using sheeted stretch sensor for persons with severe cerebral palsy
Akio Yamamoto1, Kenji Kihara1,2, Mariko Yagi1,2, Yoko Matsumoto3, Syuichi Tsuneishi1,3, Hideo Otaka4, Masaya Yonezawa4, Satoshi Takada1
1.Graduate School of Health Science, Kobe University, Kobe, Japan, 2.Nikoniko house Medical Welfare Center, Kobe, Japan, 3.Medical Welfare Center Kizuna, Kasai, Japan, 4.BANDO CHEMICAL INDUSTRIES, LTD. Kobe, Japan
O-118  Study of childhood–onset higher brain dysfunction in Nagasaki prefecture
Kiyoko Watanabe1,3, Tatsuo Matsuzaka2, Hiroyuki Moriuchi3
1.Saiseikai Nagasaki Hospital, Nagasaki, Japan, 2.Nagasaki Welfare Center, Nagasaki, Japan, 3.Department of Pediatrics, Nagasaki University School of Medicine, Nagasaki, Japan
O-119  How we coordinate rehabilitation plan for patients of autistic spectrum?
Naoki Shiota1,2,3, Yumeo Matsuda1, Tomofumi Fukuda1, Masahiro Ishii2,3, Ayako Senju1, Shioho Takano1,3, Hiroyuki Fujita3, Yoko Tomonoh3, Seiko Suzuki4, Chie Murakami5, Yoshiyasu Kono5, Masayuki Shimono1,3, Kouiti Kusuhara1
1.The Department of Pediatrics, University of Occupational and Environmental Health, Kitakyushu, Japan, 2. Health Promotion Office, Health Care & Support Center, General Affairs & Human Resources Office, UBE INDUSTRIES, LTD, Ube, Japan, 3. The Department of Pediatrics, Kitakyushu Rehabilitation Center for children with disabilities, Kitakyushu, Japan
O-120  Approach with music therapy for children with paraplegia
Yukiko Ichida1,2, Shinpei Abe1, Mitsuru Ikeno1, Shinichi Niijima2, Toshiaki Shimizu1
1. Department of Pediatrics, Juntendo University, Tokyo, Japan, 2. Department of Pediatrics, Juntendo Nerima Hospital, Tokyo, Japan,

English Session
Muscular diseases
Chairs: Harvey B. Sarnat (University of Calgary Faculty of Medicine), Yu—ichi Goto (National Center of Neurology and Psychiatry)

E-026  A boy with unexplained mild muscle weakness and easy fatigability during exercise
Juri Ogawa, Atsushi Takagi, Osamu Fujino, Takehisa Fujita, Yasuhiro Kawakami
Department of Pediatrics, Nippon Medical School, Tokyo, Japan
E-027  Osteoporosis screening in Duchenne muscular dystrophy using CT images obtained for other reasons
Yuko Motohashi1, Michio Inoue1, Koji Takahashi1, Ayano Matsui2, Noriko Sato3, Akihiko Ishiyama1, Eri Takeshita1, Hirofumi Komaki1, Masayuki Sasaki3
1. National Center of Neurology and Psychiatry, Department of Child Neurology, Tokyo Japan, 2. National Center of Neurology and Psychiatry, Department of Orthopedics, Tokyo Japan, 3. National Center of Neurology and Psychiatry, Department of Radiology, Tokyo Japan
E-028  A case of neuromyelitis optica preceded by hyperCKemia
Shiro Ozasa1, Tomoko Kashiwagi1, Ken Momosaki1, Keiko Nomura1, Hiroyo Mabe1, Yasuhiro Indo1, Rieko Sakamoto2, Shohei Kuraoka1, Naomi Kuwada1, Tatsuya Kawasaki1, Takayuki Kosaka2, Toshinari Kankane2, Toshiohide Inoue3, Masaaki Yanai1, Fumio Endo1
1. Department of Pediatrics, Kumamoto University, Kumamoto, Japan, 2. Department of Neurology, Kumamoto University, Kumamoto, Japan, 3. Department of Ophthalmology, Kumamoto University, Kumamoto, Japan, 4. Kumamoto Regional Medical Center, Kumamoto, Japan
E-029  Gene mutation screening using whole exome sequencing in lipid storage myopathy
Kazuko Takayama1, Satoru Naguchi1, Satomi Mitsushashi1, Ikuya Nonaka1, Ichiro Nishino1
1. National Institute of Neuroscience, NCNP, Tokyo, Japan, 2. Department of Pediatrics of Toho University, Tokyo, Japan
E-030  Surgical correction of progressive scoliosis in a case with Fukuyama congenital muscular dystrophy
Naoki Hino1, Mitsumasa Fukuda1, Masanori Ito1
1. Department of Pediatrics, Ehime University Graduate School of Medicine, Toon, Ehime, Japan, 2. Department of Orthopedics, Ehime University Graduate School of Medicine, Toon, Ehime, Japan
E-031  Involuntary movement occurring during the development—lessons from Segawa disease and DYT1
Yoshiko Nomura
Yoshiko Nomura Neurological Clinic for Children, Tokyo, Japan
Symposium 13

Room 2  14:50-16:40

Nurturing the Child Neurologists of the Next Generation: from a female legend doctor’s standpoint

Chairs: Ikuya Nonaka (National Center of Neurology and psychiatry), Teruhisa Miike (Hyogo Rehabilitation Center Hospital)

Fukuyama type congenital muscular dystrophy revisited with appreciation to patients and their family

Makiko Osawa (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo, Japan)

What is to be professional

Mariko Momoi (International University of Health and Welfare Hospital, Tochigi, Japan)

Bright future for female child neurologists

Yoko Ohtsuka (Ashigawaso Rehabilitation and Medical Center, Department of Child Neurology, Okayama, Japan)

The difference in a prince and a bride, the gap between a young lady and a queen

Makiko Kaga (Tokyo Metropolitan Tobu Medical Center for children/adults with developmental disabilities)

Challange to pediatric neurological specialist medical care from the clinic – it is regarded female doctor and the viewpoint

Asayo Ishizaki (Oji clinic;Division of Medicine The Japanese Association on Intellectual and Developmental Disorders, Tokyo, Japan)

How we can achieve a work–life balance?

Hiroko Kodama (Department of Health and Dieteticia, Teikyo Heisei University, Tokyo, Japan)

Symposium 14

Room 3  14:50-16:40

The dawn of gene therapy for diseases in child neurology, beginning from AADC deficiency to others.

Chairs: Mitsuhiro Kato (Showa University School of Medicine Department of Pediatrics), Takanori Yamagata (Department of Pediatrics, Jichi Medical University)

Gene therapy for child neurological diseases

Takanori Yamagata (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)

Current status of gene therapy for neurological diseases

Toya Ohashi (Division of Gene Therapy, Center for Medical Sciences, The Jikei University School of Medicine)

AADC deficiency as the representative form of neurotransmitter diseases

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

The report of gene therapy for aromatic L-amino acid decarboxylase (AADC) deficiency

Akihiko Miyauchi1, Karin Kojima1, Naoyuki Taga2, Sayaka Ono2, Junichi Saito3, Yasushi Saga3, Hiroaki Mizukami3, Mitsuhiro Kato4,5, Takeshi Nakajima6, Hitoshi Osaka1, Shinichi Muramatsu1,2,3, Takanori Yamagata4

1.Department of Pediatrics, Jichi Medical University, Tochigi, Japan
2.Department of Anesthesiology and Critical Care Medicine, Jichi Medical University, Tochigi, Japan
3.Department of Neurology, Saitama Medical Center, Jichi Medical University, Tochigi, Japan
4.Department of Radiology, Utsunomiya Central Clinic, Tochigi, Japan
5.Division of Genetic Therapeutics, Center for Molecular Medicine, Tochigi, Japan
6.Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan

Adeno-associated virus opens avenues for therapies of neuropediatric genetic diseases

Hitoshi Osaka1, Sachie Nakamura1, Eriko Jimbo1, Shinichi Muramatsu2,3, Takanori Yamagata4

1.Department of Pediatrics, Jichi Medical University, Tochigi, Japan
2.Division of Neurology, Jichi Medical University, Tochigi, Japan

Symposium 15

Room 4  14:50-16:40

Functional Gastrointestinal disorders and Brain-Gut Interactions in Children

Chairs: Toshiaki Shimizu (Department of pediatrics, Juntendo University Faculty of Medicine), Hiroshi Tamai (Osaka Medical College, Department of Pediatrics)

Functional gastrointestinal disorders in children

Yoshiko Nakayama (Department of Pediatrics, Shinshu University, Matsumoto, Japan)

Brain-Gut axis and microbiota

Satoru Nagata (Department of Pediatrics, School of Medicine, Tokyo Women's Medical University, Tokyo, Japan)

Abdominal symptoms of the patients with orthostatic dysfunction

Yuko Ishizaki (Department of Pediatrics, Kansai Medical University)

The new examination for pediatric functional gastrointestinal disorders

Kenji Hosoi, Toru Fujii, Takahiro Kudo, Yoshikazu Otsuka, Toshiaki Shimizu (Department of Pediatrics, Juntendo University Faculty of Medicine, Tokyo, Japan)
Neonatal neurology

O-121  Brain MRI findings in congenitally cytomegalovirus infected infants early in life
Kanna Kato1, Kosuke Nishida2, Sachio Fukushima3, Tsubasa Kouda4, Souta Iwatanii1, Hiroaki Nagase1, Yusuke Sugioka2, Tatsuya Nishii2, Kazumoto Iijima1, Ichiro Morioka1
1. University of Kobe, Kobe, Japan, 2. University of Kobe, Kobe, Japan

O-122  The relationship between EUGR and myelinization of pyramidal tract in VLBWI
Akihito Takeuchi, Yuhki Hyodo (Department of Neonatology, NHO Okayama Medical Center, Okayama, Japan)

O-123  Metabolic changes detected by 1H-MRS in preterm infants with normal development
Sachiko Tanifuji, Manami Akasaka, Atsushi Kamei, Nami Araya, Maya Asami, Atsushi Matsumoto, Gennichiro Sotodate, Yu Konishi, Satoko Shirasawa, Yukiko Toy, Syuji Kusano, Shouichi Chida (Iwate Medical University, Iwate, Japan)

O-124  Outcomes and MR imaging in neonates with hypoxia–ischemia encephalopathy treated by hypothermia
Akiko Takeshita1, Kyoko Hirasawa1, Ken Imai2, Atsushi Uchiyama2, Satoshi Kusuda2, Satoru Nagata1
1. Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2. Maternal and Perinatal Center, Tokyo Women's Medical University, Tokyo, Japan.

O-125  Pattern of brain lesions and neurodevelopmental outcome in neonatal herpes simplex encephalitis
Hiroyuki Kidokoro1, Akihisa Okumura2, Takeshi Tsuchiya3, Tetsuo Kubota4, Naoki Ando5, Yuji Ito1, Chikako Ogawa6, Atsuko Ohno7, Tomohiko Nakata1, Toru Kato1, Yoko Sakaguchi1, Yu Okai1, Shinji Saito2, Jun Natsume3
1. Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, 2. Department of Pediatrics, Tohoku Medical School of Medicine, Sendai, Japan, 3. Department of Pediatrics, Okazaki City Hospital, Okazaki, Japan, 4. Department of Pediatrics, Anjo Kosei Hospital, Anjo, Japan, 5. Department of Pediatrics, Nagoya City University School of Medicine and Science, Nagoya, Japan

Neurodevelopmental disorders

E-032  A follow-up study of children with autism spectrum disorder in relation to the social support
Toru Kurokawa1, Yuko Yokomizo1, Satoshi Honjou2
1. Department of Rehabilitation, Sei'ai Rehabilitation Hospital, Ohnojou, Japan, 2. Department of Pediatrics, National Hospital Organization National Fukuoka Hospital, Fukuoka, Japan

E-033  fNIRS-based assessment of individual classification of ADHD children during an inhibition task
Masako Nagashima1, Yukifumi Monden1, Ippeita Dans1, Takahiro Ikeda1,2, Minako Uga2,4, Hideo Shimoizumi3, Takanori Yamagata1
1. Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 2. Applied Cognitive Neuroscience Laboratory, Faculty of Science and Technology, Chuo University, 3. Rehabilitation Center, International University of Health and Welfare, 4. Functional Brain Science Laboratory, Jichi Medical University

E-034  CASK gene mutation in a family with autism spectrum disorder
Toshiyuki Seto1, Toshiyuki Yamamoto2, Haruo Shintaku3
1. Department of Pediatrics, Graduate School of Medicine, Osaka City University, 2. Tokyo Women's Medical University, 3. Institute for Integrated Medical Sciences

E-035  Two types of inhibition tasks allow discrimination between ASD and AD/HD children
Takahiro Ikeda1, Yukifumi Monden1, Masahiro Hiraizumi1, Masako Nagashima1, Hideo Shimoizumi2, Hitoshi Osaka1, Ippeita Dans1, Takanori Yamagata1
1. Department of Pediatrics, Jichi medical university, Tochigi, Japan, 2. Nasu Institute for Developmental Disabilities, International University of Health and Welfare Rehabilitation Center, Tochigi, Japan, 3. Functional Brain Science Laboratory, Center for Development of Advanced Medical Technology, Jichi Medical University, Tochigi, Japan, 4. Applied Cognitive Neuroscience Laboratory, Chuo University, Tokyo, Japan

E-036  Neural bases of decrease in reward sensitivity in pediatric AD/HD, RAD and CFS
Mizuno Kei1,2, Takako Joudoi3,5, Akemi Tomoda4
1. Pathophysiological and Health Science Team, RIKEN Center for Life Science Technologies, Kobe, Japan, 2. Department of Medical Science on Fatigue, Osaka City University Graduate School of Medicine, Osaka, Japan, 3. Osaka City University Center for Health Science Innovation, Osaka, Japan, 4. Department of Child Development, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, 5. Department of Pediatrics, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan, 6. Research Center for Child Mental Development, University of Fukui, Fukui, Japan
E-037  Stimulus-driven rightward saccades for detection of asymmetrical visuospatial attention system
Masafumi Sanefuji, Hiroshi Yamashita, Yasunari Sakai, Yoshito Ishizaki, Yoshiyuki Shiotsuma, Daisuke Katsuki, Satoshi Akamine, Michiko Torio, Momoko Sasaki, Keiji Irima, Toshiro Hara, Keiko Yoshida
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. Department of Child Psychiatry, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, 4. Graduate School of Systems Life Sciences, Kyushu University, Fukuoka, Japan, 5. Fukuoka Children’s Hospital, Fukuoka, Japan

English Session

Infectious and immunological diseases

Room 6  16:00-17:00

E-038  Three cases of neonatal cerebral infarction
Soichiro Toda, Shota Yuasa, Junichi Takanashi
1. Kameda Medical Center, Department of Pediatrics, Chiba, Japan, 2. Tokyo Women's Medical University Yachiyo Medical Center, Department of Pediatrics, Chiba, Japan

E-039  Polymorphism of cytokine-related and sodium channel genes in AERRPS
Makiko Saitoh, Katuhiro Kobayashi, Ai Hoshino, Masashi Mizuguchi
1. Department of Developmental Medical Sciences, University of Tokyo, Tokyo, Japan, 2. Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan

E-040  Post–vaccination MDEM associated with MOG antibody in a subclinical Chlamydia infected boy
Kohji Azumagawa, Shohei Nomura, Ichiro Nakashima, Mitsuru Kashiwagi, Takuya Tanabe, Shuichi Shimakawa, Hiroshi Tamai
1. Department of Pediatrics, Seikeikai Hospital, Osaka, Japan, 2. National Institute of Advanced Industrial Science and Technology, Osaka, Japan, 3. Tohoku University Graduate School of Medicine, Miyagi, Japan, 4. Hirakata Municipal Hospital, Osaka, Japan, 5. Tanabe Children's Clinic, Osaka, Japan, 6. Osaka Medical College, Osaka, Japan

E-041  Impaired glucose tolerance among children and adolescents with circadian rhythm sleep–wake disorder
Makiko Toyoura, Teruhisa Miike, Seiki Tajima, Keiko Owari, Shigeyuki Matsuzawa, Yukuo Konishi
1. Hyogo Rehabilitation Center Hospital, Hyogo, Japan, 2. Hyogo Children's Sleep and Development Medical Research Center, University of Hyogo, Japan

E-042  Mechanisms of brain edema after injury: photolysis of a single neuron alters Cl− in nearby neurons
Kiyoshi Egawa, Kiyoshi Egawa, Hideaki Shiraishi, Kevin Staley
1. Pediatric Department, Hokkaido University Hospital, Sapporo, Japan, 2. Department of Neurology, Massachusetts General Hospital and Harvard Medical School, Boston, USA

E-043  Colonoscopy for asymptomatic, intellectually and physically disabled persons : equity in medicine
Satoshi Honjo, Shoichiro Ohno
1. Department of Paediatrics, National Hospital Organization Fukuoka National Hospital, Fukuoka, Japan, 2. Ohno Paediatrics and Internal Medicine Clinic

Afternoon Seminar

Room 5  16:10-17:00
(Sponsored by Janssen Pharmaceutical K.K.)

Treatment of ADHD and its comorbidities
Chair: Yushiro Yamashita (Department of Pediatrics and Child Health Kurume University School of Medicine)
Yoichi Sakakihara (Ochanomizu University, Tokyo, Japan)

General Assembly

Room 2  17:00-17:45

The Japanese Society of Child Neurology Award Ceremony and Mini-lecture

Room 2  17:45-18:15

Welcoming chorus

Room 1  18:30-19:00

Welcome reception

Room 1  19:00-21:00
The 58th Annual Meeting of the Japanese Society of Child Neurology

June 5th

Morning Seminar 3

Chair: Kimitoshi Nakamura (Kumamoto University)
Two sisters of progressive myoclonus epilepsy due to Gaucher disease
  Hideo Shigematsu (National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)
A marker on clinical diagnosis of acute infantile Gaucher’s disease Neuropathic type 2
  Masaharu Ohfu (Division of Child Neurology, Okinawa Prefectural Southern Medical Center and Children's Medical Center)

Morning Seminar 4

Knowledge of therapeutic procedures for status epilepticus in childhood: Strategy from measure of the mechanism and etiology
  Chair: Akira Oka (Department of Pediatrics, The University of Tokyo)
  Hideaki Shiraishi (Department of Pediatrics, Kokaido University Hospital, Sapporo, Hokkaido)

Educational Lecture 1

Brain development and its alteration during the preterm period
  Chair: Sachio Takashima (Yanagawa Institute for Developmental Disabilities, International University of Health and Welfare)
  Hiroyuki Kidokoro (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)

Educational Lecture 2

Treatment and care for children with epileptic disorders focusing on febrile seizure and non-intractable epilepsies during childhood
  Chair: Yoshikatsu Eto (Research Institute for Neuroscience)
  Shin—ichiro Hamano (Division of Neurology, Saitama Childrens Medical Center, Saitama, Japan)

Educational Lecture 3

A comprehensive understanding of neurodevelopmental disorders from the viewpoint of endophenotypes
  Chair: Komei Kumagawa (Yokohama General Hospital)
  Akemi Tomoda (Research Center for Child Mental Development, University of Fukui, Fukui, Japan)

Educational Lecture 4

Brain injury in premature and term born neonates: Insights from MRI
  Chair: Takao Takahashi (Department of Pediatrics, Keio University school of Medicine)
  A. James Barkovich (University of California, San Francisco UCSF—Benioff Children's Hospital, USA)

Educational Lecture 5

Acute encephalopathy/encephalitis in childhood
  Chair: Mitsuru Kawai (Higashisaitama National Hospital)
  George Imataka (Department of Pediatrics, Dokkyo Medical University School of Medicine, Tochigi, Japan)
Educational Lecture 6 / Luncheon Seminar 15
(Educational lecture room 11:55-12:55
(Sponsored by CHUGAI PHARMACEUTICAL CO., LTD. / Taisho Toyama Pharmaceutical Co., Ltd.)
The mechanisms of aggravation of influenza virus infection and influenza-associated encephalopathy, and proposals of their therapeutic options
Chair: Kosaku Ohno (Japan Labour, Health and Welfare Organization Sanin Rosai Hospital)
Hiroshi Kido (Institute for Enzyme Research, Tokushima University, Tokushima, Japan)

Educational Lecture 7
(Educational lecture room 13:10-13:40
A practical approach to the children with headache: promising tips for a better management
Chair: Tomoyuki Nakazawa (Toshima Hospital)
Yoshiaki Saito (Division of Child Neurology, Department of Brain and Neurosciences, Tottori University, Yonago, Japan)

Educational Lecture 8
(Educational lecture room 13:45-14:15
Genetic Testing: From benchside to clinic
Chair: Kayoko Saito (Institute of Medical Genetics, Tokyo Women's Medical University)
Kenjiro Kosaki (Center for Medical Genetics, Keio University School of Medicine)

Educational Lecture 9
(Educational lecture room 14:20-14:50
Some topics on medical certificate charges: institutional difference by questionnaire survey with councillor
Chair: Hideo Sugie (Faculty of Health and Medical Sciences, Tokoha University)
Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

Educational Lecture 10
(Educational lecture room 14:55-15:25
Clinical features of pediatric immune-mediated CNS diseases: diagnosis and treatments of demyelinating diseases
Chair: Toru Kurokawa (Seiai Rehabilitation Hospital)
Hiroyuki Torisu (Section of Pediatrics, Department of Medicine, Fukuoka Dental College, Fukuoka, Japan)

Educational Lecture 11
(Educational lecture room 15:30-16:00
Advances in Skeletal Muscular Imaging as diagnostic tools for neuromuscular diseases
Chair: Kazuie Inuma (Children's Village Tohoku)
Keiko Ishigaki (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo, Japan)
**Poster Presentation**

**June 3rd**

**Poster Presentation**

**Epilepsy and convulsive diseases 1**

Moderator: Takashi Shiihara (Gunma Children's Medical Center)

P-001  Weekly ACTH therapy for the case with infantile epileptic encephalopathy
Tamami Yano1, Hiroki Kubota1, Tsutomu Takahashi1, Toshiyuki Yamamoto2
1. Akita University Graduate School of Medicine, Department of Pediatrics, 2. Tokyo Women’s Medical University Hospital

P-002  Ineffective quinidine treatment in an early onset epileptic encephalopathy with KCNT1 mutation
Pin Fee Chong1,2, Masaru Matsukura1, Ryoko Nakamura1, Toru Imag1, Hiroto Saito1, Gyutaru Kira1
1. Department of Pediatrics Neurology, Fukuoka Children’s Hospital, Fukuoka, Japan, 2. Department of General Pediatric, Fukuoka Children’s Hospital, Fukuoka, Japan, 3. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

P-003  One case that developed CSWS after neonatal thalamic hemorrhage and DZP high dose therapy succeeded
Hiroo Tani1,2, Nobutsune Ishikawa1,2, Yoshiyuki Kobayashi1,2, Yuji Fujii1,2, Masao Kobayashi1
1. Department of Pediatrics, Hiroshima University Hospital, Hiroshima, Japan, 2. Epilepsy Center, Hiroshima University Hospital, Hiroshima, Japan

P-004  Clinical features of Lennox–Gastaut syndrome having clusters of tonic seizures after callosotomy
Ryoko Honda1, Tomonori Ono2, Keisuke Toda2, Noriko Koide1, Tadateru Yatsu1, Shigeki Tanaka1, Hiroshi Baba2
1. Department of Pediatrics, National Hospital Organization Nagasaki Medical Center, Nagasaki, Japan, 2. Department of Neurosurgery, National Hospital Organization Nagasaki Medical Center, Nagasaki, Japan

P-005  Two cases of West syndrome resulting in emergent surgery during ACTH treatment
Shinsaku Yoshitomi, Yukitoshi Takahashi, Hideyuki Otani, Taikan Obohi, Asako Horino, Tomokazu Kimizu, Takayoshi Koike, Naoko Koseki, Tokito Yamaguchi, Hiroko Ikeda, Hiroshi Shigematsu, Katsumi Imai, Yushi Inoue (Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)

P-006  Treatment of quinidine for West syndrome with KCNT1 gene mutation
Masataka Fukuko1, Hisashi Kawawaki1, Ichiro Ku1, Kiyohiro Kuninaka1, Yuka Hattori1, Hitomi Teuji1, Megumi Nukui1, Shin Okazaki1, Youko Yoshida1, Takehiro Uda1, Hiroto Saito1, Nobuhiko Okamoto5
1. The Department of Neuropediatrics, Osaka City General Hospital, Osaka, Japan, 2. The Department of Pediatric Electrophysiology, Osaka City General Hospital, Osaka, Japan, 3. The Department of Neurosurgery, Osaka City University Graduate School of Medicine, Osaka, Japan, 4. The Department of Human genetics, Yokohama City University, Yokohama, Japan, 5. The Clinical Genetics Department of Osaka Medical Center and Research Institute Maternal and Child Health, Osaka, Japan

P-007  A case of drug resistant CSWS which showed clinical improvement after transection of corpus callosum
Hisashi Tsuru1, Nozomi Sano1, Mayumi Matsufuji1, Shinsuke Maruyama1, Ryoko Honda1, Keisuke Toda4
1. The Pediatric Department, Minamikyusu Hospital, Kagoshima, Japan, 2. The Pediatric Department, University of Kagoshima, Kagoshima, Japan, 3. The Pediatric Department, Nagasaki Medical Center, Nagasaki, Japan, 4. The Cranial Nerve Surgery Department, Nagasaki Medical Center, Nagasaki, Japan

P-008  Withdrawn

P-009  Efficacy of high-dose vitamin B6 therapy with West syndrome
Motoko Ogino1, Mitsuru Kashiwagi1, Takuya Tanabe2, Chizu Oba1, Shuichi Shimakawa3, Hiroshi Tamai3
1. Haricot City Hospital, Osaka, Japan, 2. Tanabe Children Clinic, Osaka, Japan, 3. Osaka Medical College Hospital, Osaka, Japan

**Poster Exhibition Hall**

18:00-18:30

**Poster Presentation**

**Epilepsy and convulsive diseases 2**

Moderator: Yasuhiko Kawakami (Department of Pediatrics, Nippon Medical School Tama Nagayama Hospital)

P-010  Seizure severities of children with epilepsy can affect perception of stigma in their parents
Hideaki Kanemura1, Fumiakazu Sano1, Tetsuo Ohyama1, Kanji Sugita1, Masao Aihara2
1. Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, 2. Interdisciplinary Graduate School of Medicine and Engineering, University of Yamanashi, Yamanashi, Japan

**Poster Exhibition Hall**

18:30-19:00
P-011 Study of pregnancy and delivery in women with epilepsy
Yuki Kawamura1, Ayumi Fukuda1, Ryutaro Kohira1, Tatsuo Fuchihami1, Eiki Fujita1, Shori Takahashi1, Atsushi Nishimura1, Narumi Michihira2, Hiroaki Shihara2, Takao Harasawa2
1. Department of Pediatrics, Nihon university school of medicine, Tokyo, Japan, 2. Ashikagakanomori ashiaga hospital, Tochigi, Japan

P-012 Two types of ictal epileptiform activity using video-EEG: a case report of 2 month-old boy
Takako Matsumoto, Toshiro Mindai1 (Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan)

P-013 To establish strategy for medical student to publish case report in pediatric neurology
Youke Kakisaka1, Naomi Hino1, Futuyo2, Seiichi Ishii3, Mayu Fujikawa1
1. Department of Epileptology, Tohoku University School of Medicine, Sendai, Japan, 2. Department of Medical Genetics, Tohoku University School of Medicine, Sendai, Japan, 3. Department of Medical Education, Tohoku University School of Medicine, Sendai, Japan

P-014 Two case reports of psychogenic non-epileptic seizure, secondary to refractory epilepsy
Taro Kitamura1, Yu Aihara1, Rikio Suzuki1, Mitsui Moriya1, Toshiyuki Nishio1, Masaru Takayamag1, Toshihiro Ohura1, Yoshihito Oikawa2, Mitsugu Uematsu2
1. Department of Pediatrics, Sendai City Hospital, Sendai, Japan, 2. Department of Pediatrics, Tohoku University, School of Medicine, Sendai, Japan

P-015 Severe motor and intellectual disability accompanied with hyper folic academia: a case report
Shohei Kusabiraki1, Tomomi Tanaka1, Akiko Hiraiwa1, Yuki Watanabe1, Takashi Kuramoto1, Seiko Fuzuki1, Chiaki Tanaka1, Kazushi Miya1, Yuiichi Adachi1
1. Department of Pediatrics, University of Toyama, Japan, 2. University of Toyama, Faculty of Human Development

P-016 The cognitive function changes of epilepsy with children in DN-CAS
Mitsuori Kashii, Takuya Tanabe1, Motoko Ogino1, Chizu Oba1, Sosuke Yoshikawa2, Ryohei Miyamoto2, Suichii Shimakawa3, Kouji Numazawa1, Eiji Wakamiya2, Hiroshi Taimi2
1. Department of Pediatrics, Hirakata City Hospital, Osaka, Japan, 2. Department of Pediatric Neurology, Tanabe clinic, 3. Department of Pediatrics, Osaka Rousal College, 4. Department of Pediatrics, Ibarky Springkai Hospital, 5. Department of Pediatrics, Rousal College, 6. Department of Pediatrics, Seikeikai Hospital, 7. Aino University

P-017 A case of ICOE-G which caused respiratory suppression during non-convulsive status epilepticus
Keiko Funata1,2, Tatsuhiko Shike1, Toshiki Takenouchi2, Yuki Yamashita1
1. Department of Pediatrics, Yokohama Municipal Citizens Hospital, Yokohama, Japan, 2. Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan

P-018 99mTc ECD-SPECT and spinal fluid cytokines levels of complex febrile seizures
Natsumi Morishita, Gaku Yamana, Tomomi Urabe, Mika Takeshita, Shinichiro Morichi, Yu Ishida, Shingo Oana, Hisash Kawashima (The Department of Pediatrics, Tokyo Medical University, Tokyo, Japan)

P-019 5 patients with shuddering attacks
Takui Omata, Yoshimi Watanabe, Yuki Iida, Kazuo Kodama (Division of Child Neurology, Chiba Children's Hospital, Chiba, Japan)

Poster Presentation

Poster Exhibition Hall 19:00-19:30

Epilepsy and convulsive diseases 3
Moderator: Yusaku Miyamoto (Division of Pediatrics, Kawasaki Municipal Tama Hospital)

P-020 Two cases treated with hemispherectomy for intractable epilepsy with bilareral cerebral lesions
Yuji Fuji1,2, Hiroto Tani1,2, Yoshiyuki Kohayashi1,2, Nobutane Ishikawa1,2, Masaya Kagiiri2, Kota Kagawa2, Koji Iida2, Masao Kobayashi2
1. Department of Pediatrics, Hiroshima University, Hiroshima, Japan, 2. Epilepsy center, Hiroshima University, Hiroshima, Japan

P-021 A case of Rasmussen syndrome which is controled by early oral corticosteroid therapy
Tsuyoshi Matsuoka, Masaharu Ohfu, Masato Hiyane (Division of Child Neurology, Okinawa Prefectural Nanbu Medical Center and Children's Medical Center, Okinawa, Japan)

P-022 Late onset infantile spasms associated with temporal brain tumor
Mara Inami1, Yohane Miyata1, Miwa Nakagawa1, Yumiko Namiki1, Eiko Nakano1, Yuichiro Matsuoka1, Makiko Shimazaki1, Yumiko Komatsu1, Yukiko Nakamura1, Akira Oka1,2, Kumamasa Yan1
1. Department of Pediatrics, Kiyorin University, Tokyo, Japan, 2. Department of Pediatrics, University of Tokyo, Tokyo, Japan, 3. Shimo Yosioyuki Center Hachihi, Tokyo, Japan

P-023 The seizure courses and EEG changes after corpus callosotomy for falling attacks after West syndrome
Koji Takahashi1, Kenji Sugai1, Eri Takeshita1, Yuko Motohashi1, Akihiko Ishiyama1, Takashi Saito1, Hirofumi Komaki1, Eiji Nakagawa2, Akihiko Takahashi2, Tatsuko Otsuki2, Masayuki Sasaki2
1. The Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan, 2. The Department of Neurosurgery, National Center of Neurology and Psychiatry, Tokyo, Japan

P-024 A surgical case of intractable complex partial epilepsy with cavernous hemangioma
Tomofumi Fukuda, Masayuki Shimono, Masahiro Ishii, Ayako Senju, Yumeko Matsuda, Koushi Kusuhara (University of Occupational and Environmental Health Japan, Kitakyushu, Japan)
P-025  What kind of short–term effective antiepileptic drugs for childhood epilepsy with tuberous sclerosis
Misako Kinoshita1,2, Kenjiro Kikuchi2, Norimichi Higurashi2, Shin-Ichiro Hamano3
1.Department of Pediatrics, Fuji City General Hospital, Sizuoka, Japan, 2.Department of Pediatrics, Jikei University school of Medicine, Tokyo, Japan, 3.Division of Neurology, Saitama Children's Medical Center; Saitama, Japan

P-026  Type Ib focal cortical dysplasia causing sudden onset intractable partial epilepsy in adolescence
Itaru Hayakawa1,2, Satoko Kumada1, Michiharu Morino1, Shinpei Uchino1, Ikuko Shirai1, Yasuo Hachiya1, Eiji Kurihara1
1.Department of Neurology, Saitama Children’s Medical Center, National Hospital Organization, 2.Department of Pediatrics, Saitama Children's Medical Center, National Hospital Organization, 3.Department of Neurosurgery, Nishiisahaya Hospital, 4.Department of Pediatrics, Saitama University Hospital, 5.Department of Pediatrics, Saiseikai Nagasaki Hospital

P-027  Effect of behavioral changes by performing a surgical therapy for intractable epilepsy
Mitsuhito Matsuo1, Akiko Fujii1, Ryouko Honda2, Kiseuke Toda3, Tomonori Ono4, Hiroshi Baba4, Tatsuharu Sato5, Yoshiaki Watanabe5, Kiyoko Watanabe6
1.Nagasaki Prefectural Center of handicapped children, Nagasaki, Japan, 2.Department of Pediatrics, Nagasaki Medical Center, National Hospital Organization, 3.Department of Neurosurgery, Nagasaki Medical Center, National Hospital Organization, 4.Department of Neurosurgery, Nishiisahaya Hospital, 5.Department of Pediatrics, Nagasaki University Hospital, 6.Department of Pediatrics, Saiseikai Nagasaki Hospital

P-028  Hippocampal sclerosis following reversible posterior encephalopathy syndrome in a boy
Atsushi Sato1, Kosumi Shimoda1, Yoko Mizuno1, Sayaka Ohta1, Mariko Kasai1, Akira Oka2, 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

Poster Presentation
Neurodevelopmental disorders 1

Moderator: Kuniaki Iyoda  (Fukuyama Support Center Of Development and Care for Children)

P-029  The correlation between small beta power on frontal area and clinical symptoms in ADHD
Kosuke Kohashi1, Mariko Okubo1, Eiji Nakagawa2, Eri Takehata1, Yuko Motoshigi1, Akihiko Ishiyama1, Takashi Saitou1, Hirofumi Komaki1, Kenji Sugai1, Ayako Fukuda2, Mikimasa Oomori2,3, Masumi Inagaki2, Masayuki Sasaki1
1.Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry, Japan, 3.Japan Society for the Promotion of Science, Japan.

P-030  Diagnosis and longitudinal assessment of symptoms in the preschool children with AD/HD
Manabu Tanaka1, Motoyuki Minamitani2, Yuki Nariya1, Mai Kuroda1, Ryuuki Matsuura2, Yuuko Hirata2, Reiko Koichihara1, Satoru Ikemoto2, Erika Hiwatari2, Shin-Ichiro Hamano1,2
1.Division of Child Health and Human Development, Saitama Children’s Medical Center, Saitama, Japan, 2.Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan

P-031  Diagnosis and clinical evaluation of ADHD in adolescence
Tetsuro Sakai1,2, Naomitsu Suzuki1
1.Tsukuba Clinic for Mental Sick Children & Adolescents, Tsukuba, Japan, 2.The Department of Pediatrics, Yuai Memorial Hospital, Koga, Japan

P-032  5 cases who were attempted to discontinuate the medication for ADHD
Yumi Habata1, Akashi Ishikawa2, Akira Sudo2, Yuki Ueda2
1.Department of Pediatric Rehabilitation, Hokkaido Medical Center for Child Health and Rehabilitation, Sapporo, Japan, 2.Department of Pediatrics, Nire-No-Kai Children Clinic, Sapporo, Japan

P-033  Two cases of ADHD in a patient with Noonan syndrome
Yumiko Oono, Keiko Wada, Shuji Matsui, Keiko Akahoshi, Mitsunobu Matsuda, Masuko Funahashi, Yasuyuki Suzuki (The Tokyo Children rehabilitation's hospital,Tokyo,Japan)

P-034  Effect of the short term treatment program for ADHD
Kotaro Yuge1, Rumiko Hirata1, Akiko Iemura1, Go Shimomura1, Yasuhiro Tada2, Chizuru Anai2, Akiko Mukasa2, Chiyomi Egami3, Shinichiro Nagamitsu3, Yoshiyo Yamashita1,2
1.Department of Pediatrics and Child Health,Kurume University School of Medicine,Kurume,Japan, 2.NPO corporation KURUME STP,Kurume,Japan, 3.Faculty of Nursing,Fukuoka Prefectural University,Tagawa,Japan

P-035  Trend of medication for attention–deficit/hyperactive–disorder in our department
Chika Hosoda1,2, Kouyou Oono1, Yoko Nishimura1, Akiko Tamasaki1, Yoshiaki Saitou1, Yoshiroro Maegaki1
1.The Department of Child Neurology, Tottori University; Tottori, Japan, 2.Tottori Pref. Rehabilitation Center for Children, Tottori, Japan

P-036  Tolerability of atomoxetine (ATX) in ADHD associated with epilepsy
Takuya Tanabe1, Mitsuru Kashiwagi2, Motoko Ogino2, Chizuru Oba3, Shuichi Shimakawa3, Eiji Wakamiya4, Hiroshi Tamai5
1.Tanabe Children's Clinic, 2.Department of Pediatrics, Hirakata City Hospital, 3.Department of Pediatrics, Osaka Medical College, 4.Aino University
P-037  Efficacy of atomoxetine in a boy with frontal lobe injury
Miho Fukui1, Shuichi Shimakawa1, Mari Hatanaka1, Naoko Kurimoto2, Meikumizuta2, Takashi Takeshita2, Tomohito Okumura2, Eiji Wakamiya3, Hiroshi Tamai2
1. The Department of Pediatrics, Osaka Medical College, Osaka, Japan, 2. LD Center, Osaka Medical College, Osaka, Japan, 3. Department of Nursing, Faculty of Nursing and Rehabilitation, Aino University, Osaka, Japan

P-038  Investigation of environmental factor in ADHD
Kazumichi Nishizawa (Shizuoka Red Cross Hospital, Shizuoka, Japan)

P-039  Developmental problems of very low birth weight infants who need long-term follow-up
Akio Nakamura1, Kyoko Hatta1, Ena Hirai1, Ryoko Koike1, Kana Ikekiri1, Kumi Kato1, Satomi Mitomo1, Nao Oikawa1, Mariko Hosozawa1, Tomohiro Iwasaki1, Naomi Yoshikawa1, Kyoko Tanaka1,2, Toshiaki Shimizu1
1. The Department of Pediatrics, Juntendo University School of Medicine, Tokyo, Japan, 2. Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan

Poster Presentation

Neurodevelopmental disorders 2
Moderator: Akio Nakai (Hyogo Children’s Sleep and Developmental Research Center)

P-040  Clinical study of medical consultation in Developmental Counseling and Support Center in Kawasaki
Kazue Takagi (Yokohama Central Area Habilitation Center for Children, Yokohama, Japan, /Developmental Counseling and Support Center in Kawasaki, Kawasaki, Japan)

P-041  Consultation and support for developmental disorder at regional core hospitals
Aki Kurihara, Hiroki Iwasaki, Yukiko Oosawa, Toshimasa Obonai (Department of Pediatrics, Tama-Hokubu Medical Center, Tokyo, Japan)

P-042  Clinical tendency of neurodevelopmental disorders
Hitomi Hayashi, Naomi Morishima, Reimi Tsurusawa, Noriko Nakamura, Sawa Kurata, Atushi Ogawa (Fukuoka University Chikusho Hospital, Fukuoka, Japan)

P-043  Visit by pediatric neurologist – let’s go to the class and the teacher’s room
Kosuke Nakano1, Miyuki Usbida2
1. Special Support Education Course, Faculty of Education, Ehime University, Matsuyama, Japan, 2. Department of pediatric psychosomatic medicine, Shiokoku Medical Center for Children and Adults, National Hospital Organization, Zentsuji, Japan

P-044  Medical office questionnaire survey to affect the at-home support of persons with SMID in Shizuoka
Shinji Yamakura, Kazue Asano (TSUBASA SHIZUOKA)

P-045  Practice of “Sagami Nijiiro Net” supporting the children with the Neurodevelopmental disorders
Nozomi Hosada (Sagamihara Ryouikuen, Institute for Severe Disabilities, Sagamihara, Kanagawa, Japan)

P-046  Special consultation for developmental disability child to support school or child care center
Mitsuyo Haraguchi (Nagawara Prefectural Medical Care and Counseling Center for the Handicapped, Kanagawa, Japan)

P-047  The examination of cooperation for support to children with neurodevelopmental disorders
Yukie Yasunaga, Reina Ogata, Kyoko Watanabe (National Hospital Organization, Kokura Medical Center, Fukuoka, Japan)

P-048  The project of cooperation among organizations related to children needing home medical care
Michiaki Nagura (Saitama Medical Center, Kawagoe, Japan)

P-049  The history of ten years our child health facilities support activity ; the role and agenda
Kyoko Hatta1, Akio Nakamura1, Ena Hirai1, Ryoko Koike1, Kana Ikekiri1, Kumi Kato1, Satomi Mitomo1, Nao Oikawa1, Mariko Hosozawa1, Tomohiro Iwasaki1, Naomi Yoshikawa1, Kyoko Tanaka1,2, Toshiaki Shimizu1
1. The Department of Pediatrics, Juntendo University School of Medicine, Tokyo, Japan, 2. Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan

P-050  Atomoxetine ameliorates nocturnal enuresis in patients with mild ADHD
Yoshiyuki Ohtomo, Noboru Yoshida, Daisuke Umino, Shintaro Yamashita, Shinichi Niijima (Department of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan)

Poster Presentation

Neurodevelopmental disorders 3
Moderator: Yuka Suzuki (Matsuyama Red Cross Hospital)

P-051  Evaluation of brain MRI findings in autism spectrum disorders
Hiromichi Ito1, Kenji Mori2, Masafumi Harada3, Sonoka Hisaoka3, Yoshihiro Toda1, Tatsuo Morii1, Aya Goji1, Yoko Abe1, Masahito Miyazaki1, Shoji Kagami1
1. Department of Pediatrics, Tokushima University, Tokushima, Japan, 2. Department of Child Health & Nursing, Tokushima University, Tokushima, Japan, 3. Department of Radiology, Tokushima University, Tokushima, Japan

P-052  Evaluation of epilepsy and brain EEG findings in autism spectrum disorders
Hiromichi Ito1, Kenji Mori2, Yoshihiro Toda1, Tatsuo Morii1, Aya Goji1, Yoko Abe1, Masahito Miyazaki1, Shoji Kagami1
1. Department of Pediatrics, Tokushima University, Tokushima, Japan, 2. Department of Child Health & Nursing, Tokushima University, Tokushima, Japan
P-053 Developmental characteristics in early infancy of the children with autism spectrum disorders
Kyouko Hirasawa, Akiko Takeshita, Satoru Nagata (The Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan)

P-054 Clinical diversity in siblings with developmental dyslexia
Masao Kawatani1,2,3, Genrei Ohta3,4, Hiroshi Kometani1, Shimichirou Takiguchi3,4, Yusei Ohshima1, Akemi Tomoda3, Michio Hiratani4
1. Department of Pediatrics, Faculty of Medical Sciences, University of Fuku, Fukui, Japan, 2. Department of Pediatrics, Houju Memorial Hospital, Noumi, Ishikawa, Japan, 3. Child Development Research Center, University of Fukui, Fukui, Japan, 4. Hiratani Child Development Clinic, Fukui, Japan

P-055 Features and developments among expressive language disorder and speech sound disorder
Yoshihiko Nomura, Youko Kishimoto, Kaoru Amemiya, Yuri Ozawa, Ayako Tsumita, Yukiko Nakamura, Nobuko Sugiiura, Hiroshi Ozawa (Shimada Ryouku Center Hachioji)

P-056 Follow-up survey of the autistic children whom we intervened in with under 3 years old early
Keiko Maeda, Keitaro Sueda, Keiko Morioka, Sachio Hayakawa, Izumi Har (Shizuoka Iryou fukusi center, Department of Child neurolgy, Shizuoka, Japan)

P-057 Ramelteon for treatment of sleep disorders in young children with autism spectrum disorder
Keitaro Sueda1, Keiko Maeda2
1. Sapporo Child center, Sapporo, Japan, 2. Shizuoka Medical Welfare Center, Shizuoka, Japan

P-058 Parental age on autism spectrum disorder sibling in Shimada Ryouku Center Hachioji
Yoko Narumi-Kishimoto, Yoshiko Nomura, Kaoru Amemiya, Ayako Tsumita, Yukiko Nakamura, Nobuko Sugiiura, Yuri Ozawa, Hiroshi Ozawa (Department of Pediatrics, Shimada Ryoiku Center Hachiouji, Tokyo, Japan)

P-059 Analysis of thermogenesis mechanism in the autistic children
Tomohiro Nakayama, Haruka Oguro, Junko Nakayama, Nobuaki Iwasaki (Department of Pediatrics, Ibaraki Prefectural University of Health Science, Ami, Japan)

P-060 Evaluation of pharmacotherapy based on EEG for autistic traits
Eiji Nakagawa (Department of Child Neurology, National Center Hospital, NCP, Tokyo, Japan)

P-061 Delayed diagnosis of pseudohypoparathyroidism without hypocalcemia: a case report
Naohito Arii (Department of Pediatrics, Juntendo Shizuoka Hospital)

Poster Presentation
Cerebral palsy and rehabilitation 2
Moderator: Akira Yoneyama (National Rehabilitation Center for disabled Children)

P-062 The development of educational program to support children with special health care needs
Nobuyuki Yotani1,2, Takashi Hamazaki3, Haruo Shintaku2
1. Department of Palliative Medicine, Kobe University Graduate School of Medicine, Kobe, Japan, 2. Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka, Japan

P-063 Medical agency survey about home-care for medically complex patients with special health-care needs
Yoshio Tsubouchi1,2, Ayako Itakura3, Akiko Tamasaki4, 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

P-064 Long-term usage of nasal-pharyngeal airway
Nagahisa Takahashi, Makiko Kanazawa, Kaori Ogita, Akiko Koyama, Jyunko Ohinata, Ikumi Kimura, Mika Nagase, Katutoshi Nakatani, Akira Yoneyama, Eiji Kitazumi (Department of Pediatrics, National Rehabilitation Center for Disabled Children)

P-065 Research in home-visiting service system for person with severe motor and intellectual disabilities
Hiromi Hosaka1, Kazuo Hatakeyama1, Kakuo Aoyagi1, Yuhko Kaniya2, Yoshimi Kaga2, Kousuke Nakamura2, Sayaka Ishii2, Kanji Sugita3, Masao Ahara4
1. The Department of Pediatrics, AKEBONO Medical Welfare Center, Yamanashi, Japan, 2. The Department of Pediatrics, National Hospital Organization Kofu national Hospital, Yamanashi, Japan, 3. The Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, 4. Interdisciplinary Graduate School, University of Yamanashi, Yamanashi, Japan

P-066 Three years experience of Children’s Hospice
Makoto Nabetani (Department of Pediatrics, Hospice Childrens Hospice Hospital, Osaka, Japan)

P-067 Questionnaire survey of severe motor and intellectual disabilities in western Shizuoka prefecture
Teruhiro Suzuki, Yusaku Endo, Kouichi Hirano (Hamamatsu City Welfare and Medical Center for Development, Department of Pediatric Neurology, Hamamatsu, Japan)

P-068 The survey of patients who have left the center for children with disabilities
Yuko Nakamura1, Ayako Tanabe1, Madoka Shiota1, Tadashi Kitahara1, Yoshihiro Maegaki2
1. Tottori Prefectural Rehabilitation Center for Children with Disabilities, Yonago, Japan, 2. The department of child Neurology, Tottori university, Yonago, Japan
P-069  Effect of ITB therapy from the standpoint of pediatric home support
Sunao Tomita1,2, Youzi Ikuta1, Takayuki Mori1, Asami Itou1, Hiromi Suzuki1, Ayaka Koide1,2, Sahoko Miyama1, Satoshi Ihara3
1. The Department of Neurology, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan, 2. The Department of Child and Family Support, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan, 3. The Department of Neurosurgery, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan

P-070  Predictive value of brain imaging for gross motor function after severe head trauma in school age
Kayoh Ohmura, Yukihito Kitai, Kaeko Ogura, Satori Hirai, Hiroshi Arai (Department of Pediatric Neurology, Morinomiya Hospital, Osaka, Japan)

P-071  Medical supports for persons with SMID at home in day care centers in Hiroshima prefecture
Kunihiko Sawano1, Tadashi Matsubasa2
1. Department of Pediatrics, Hiroshima prefectural rehabilitation center, Higashihiroshima, Japan, 2. Chair of Severe Motor and Intellectual Disabilities, Kumamoto University Hospital, Kumamoto, Japan

P-072  The messages to the child neurologists in terms of problems on the patients with dysphagia
Sou Atsumi (The Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo, Japan)

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**Poster Presentation**

**Cerebral palsy and rehabilitation 2**

**Moderator:** Yui Iwasaki (Tokyo Metropolitan Tobu Medical Center for Persons with Developmental/Multiple Disabilities)

**Poster Exhibition Hall 18:30-19:00**

P-073  Clinical usefulness of SP-D for detecting chronic aspiration in severely disabled children
Hiroyuki Wakamato, Mika Kawabe, Takehiko Morimoto (The Department of Pediatric Neurology, Ehime Rehabilitation Center for Children, Ehime, Japan)

P-074  Study of mechanical insufflation–exsufflation (Cough Assist E70) for SMID
Toshihiro Suzuki, Mariko Takagi, Yuiji Tachioka, Shihoko Honzawa, Hitomi Noguchi, Hideomi Ohta, Tatsuo Masuyama, Yuji Iwasaki, Makiko Kaga (Department of Pediatrics, Tokyo Metropolitan Tobu Medical Center for Persons with Developmental/Multiple Disabilities)

P-075  Prognosis of eating and swallowing disorder of malformation syndrome
Mika Hayakawa, Yukikatsu Ochiai, Sakiko Oshima, Yuki Shimazaki, Seiko Hirose, Masayuki Imai (Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled)

P-076  A cohort study of L-carnitine supplementation for severe physical and mental disabilities
Tomomi Ogata1, Kazuhiro Muramatsu1, Nishiki Makioka1, Noriko Sawaura1, Kouzi Kaneko2, Hirokazu Arakawa1
1. Department of Pediatrics, Gunma University Graduate School of Medicine, Gunma, Japan, 2. Hannna Sawarabi Ryouikuen, Gunma, Japan

P-077  Treatment and Clinical course of hypocarnitinemia in our hospital
Watanabe Toshihide, Takayama Rumiko, Ogasawara Masashi (The Department of Pediatrics, Hokkaido Children’s Hospital and Rehabilitation)

P-078  Tracheostomy tube selection including order-made tube for 79 patients with neurological impairment
Makiko Kanazawa1,2, Eiji Kitazumi1, Akira Yoneyama1, Shori Nakatanai2, Junko Ohinata1, Ikumi Kimura1, Mika Nagase1, Akiko Koyama1, Nagahisa Takahashi1, Takako Yui1, Naoto Yamaguchi1, Kaori Ogita1
1. Department of Pediatrics, National Rehabilitation Center for Disabled Children, Tokyo, Japan, 2. Department of Pediatrics, Kyorin University, Tokyo, Japan

P-079  Cognitive dysfunctions in children with periventricular leukomalacia
Kaeko Ogura, Masahiro Kitai, Kayoh Ohmura, Satori Hirai, Hiroshi Arai (The Department of Pediatric Neurology, Morinomiya Hospital, Osaka, Japan)

P-080  Dysphagia in cerebral palsy with bilateral basal ganglia and thalamic lesion
Yukihiro Kitai, Kaeko Ogura, Kayoh Ohmura, Satori Hirai, Hiroshi Arai (The Department of Pediatric Neurology, Morinomiya Hospital, Osaka, Japan)

P-081  Clinical examination of tracheostomy or laryngotrache–separated children
Shin Okazaki1, Kiyohiro Kim1, Masataki Fukuoka1, Yuka Hattori1, Hitomi Tsuji1, Megumi Nukui1, Ichiro Kuki1, Hisashi Kawakazi1, Kiyotaka Tomiwa2, Tomaaki Nakano2, Nobuaki Kanemura2
1. Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan, 2. Osaka City General Hospital, Osaka, Japan

P-082  Bone mineral density assessment for patients with severe motor and intellectual disabilities
Naoko Ishikawa, Takashi Ichiyama, Hiroshi Isumi, Yoshitsugu Sugio (Department of Pediatrics, Tsudumigaura Medical Center for Children with Disabilities, Shunan, Japan)
Cerebral palsy and rehabilitation 3
Moderator: Masayuki Imai (Tokyo Metropolitan Kita Medical and Rehabilitation Center)

P-083  A case of suspected late dumping syndrome due to hyperinsulinemic hypoglycemia during tube feeding
Hiroaki Ono (The Department of Pediatrics, Hiroshima Prefectural Hospital, Hiroshima, Japan)

P-084  Two cerebral palsy patients whose vomiting symptom improved by gastrojejunostomy
Akagi Kazuko¹, Usbio Ootaki¹, Keiko Matsuda¹, Kenji Ikeda¹, Kayoko Takahashi¹, Akiko Kamiishi¹, Kiyoshi Arimoto¹, Tetsushi Kimiya¹, Kenji Miyama²
1. Shimada Ryoiku Center, Tokyo, Japan, 2. National Center of Neurology and Psychiatry, Tokyo, Japan

P-085  A case of status dystonicus due to athetoid cerebral palsy
Yuki Shimazaki¹,², Sakiko Oshima¹,², Masamichi Ariga¹,²,³, Akinou Tamari¹,²,⁴, Mika Hayakawa¹,², Seiko Hirose¹,², Yukikatsu Ochiai¹,², Masayuki Imai¹,²
1. Kita Medical and Rehabilitation Center for the Disabled, Tokyo, Japan, 2. The Jikei University school of Medicine, Tokyo, Japan, 3. Kanagawa Rehabilitation Hospital, Tokyo, Japan, 4. Fuji City General Hospital, Tokyo, Japan

P-086  Effects of embolization for collateral artery of chronic atelectasis in severe retarded patients
Sayaka Ishii¹,², Yoshihisa Kaga¹,², Kosuke Nakamura¹,², Yuko Kamiya¹,², Hideo Kanemura², Kenji Sugita³, Masao Aihara³
1. Department of Pediatrics, National Hospital Organization Kofu National Hospital, Yamanashi, Japan, 2. Department of Pediatrics, University of Yamanashi, Yamanashi, Japan, 3. Department of Health Science and Community, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan

P-087  The 9 year–old girl who had end–of–life care according to the ACP
Yoshitaka Iijima, Masahisa Funato, Hiroshi Wada (Osaka Developmental Rehabilitation Center, Osaka, Japan)

P-088  Clinical profiles of individuals with hydranencephaly with prolonged survival
Keichi Maruyama, Yuuki Maki, Ayako Umemura, Keitaro Yamada, Kosaburo Aso (Department of Pediatric Neurology, Central Hospital, Aichi Prefectural Colony)

P-089  A case of adolescent CCHS complicated by high blood pressure
Seiko Hirose¹,², Mika Hayakawa¹,², Sakiko Oshima¹,², Yukki Shimazaki¹,², Yukikatsu Ochiai¹,², Masayuki Imai¹,²
1. Kita Medical and Rehabilitation Center for the Disabled, Tokyo, Japan, 2. The Jikei University school of Medicine, Tokyo, Japan

P-090  Status epilepticus in children (individuals) with severe motor and intellectual disabilities
Keiko Wada, Yumiko Oono, Tukako Tamura, Michiko Makino, Shuji Matsui, Mitsunobu Maysuda, Keiko Tanagi, Masuko Funahashi, Keiko Akahoshi, Toshihide Shiiki (Department of Pediatrics Tokyo Children’s Rehabilitation Hospital, Tokyo, Japan)

P-091  The home care of patients with cerebral palsy over 20 years old in anticipation of the end of life
Ayaka Koide¹, Itaru Hayakawa², Hiroshi Ozawa³, Takayuki Mori¹, Asami Ito¹, Hiromi Suzuki¹, Sahoko Miyama¹, Sunao Tomita¹
1. Department of Neurology, Tokyo Metropolitan Children’s Medical Center, Fuchu, Tokyo, Japan, 2. Department of General Pediatrics, Tokyo Metropolitan Children’s Medical Center, Fuchu, Tokyo, Japan, 3. Department of Pediatric Neurology, Shimada Ryoiku Center Hachioji, Tokyo, Japan

P-092  A ureteral calculus with appetite loss as an initial symptom due to zonisamide and acetazolamide
Yu Katata¹,², Hitoshi Mikami¹, Naomi Hukuyo¹,²,³
1. Department of Pediatrics, Iwate Prefectural Central Hospital, Iwate, Japan, 2. Department of Pediatrics, University of Tohoku, Sendai, Miyagi, Japan, 3. Department of Genetics, University of Tohoku, Sendai, Miyagi, Japan

P-093  The effect of mechanical in–exsufflation in NPPV for children with SMID
Shuji Matsui, Masuko Funahashi, Yumiko Oono, Michiko Makino, Keiko Wada, Mitsunobu Maysuda, Keiko Akahoshi, Toshihide Shiiki (The Tokyo Children rehabilitation’s hospital, Tokyo, Japan)
P-094  A case of Duchenne muscular dystrophy developing chronic myelogenous leukemia
Akiko Wakisaka, Ayano Yokoi, Shinya Yamada, Nami Nakamura, Keiko Maruhashi, Takanori Tsuji, Ichiroh Ohno, Hidetoshi Seki (National Hospital Organization Iou Hospital, Kanazawa, Japan)

P-095  Multicenter questionnaire survey on school education for patients with Duchenne muscular dystrophy
Suzuki Rie, Toshio Saitou, Tatsuya Fujii, Kouichi Maruyama, Ayako Hattori, Akiko Wakisaka, Yasuhiro Takeshima, Souichi Mukaida, Seiko Itohi, Kazuhiro Shirai
1. Department of Pediatric Neurology, National Hospital Organization Utano National Hospital, Kyoto, Japan, 2. Division of Child Neurology, Department of Neurology, National Hospital Organization Toneyama National Hospital, Toyonaka, Osaka, Japan, 3. Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Japan, 4. Department of Pediatric Neurology, Aichi Prefectural Colony Central Hospital, Kasugai, Japan, 5. Nagoya City University, Graduate school of Medical Sciences, Department of Pediatrics and Neonatology, Nagoya, Japan, 6. Department of Pediatrics, National Hospital Organization Iou Hospital, Kanazawa, Japan, 7. Department of Pediatrics, Hyogo College of Medicine, Nishinomiya, Japan

P-096  Evaluation of plasma AcSDKP levels in long-term ACEI administration for the DMD with cardiomyophathy
Yukitoshi Ishikawa, Ryoji Minami, Yuka Ishikawa (National Hospital Organization, Yakumo Hospital, Department of Pediatrics, Pediatric Neurology)

P-097  Bilateral paramedian thalamic infarction complicated with Duchenne muscular dystrophy
Fumihiro Nozaki, Tomohiro Kumada, Minoru Shibata, Amri Hayashi, Mioko Mori, Ikuo Hiejima, Kenji Inoue, Saeko Sasaki, Tatsuya Fujii (Department of Pediatrics, Shiga Medical Center for Children)

P-098  Consideration of gastrostomy and management for Duchenne muscular dystrophy
Yasuhiro Kimoto, Hirohumi Komaki, Madoka Morii, Yasushi Oya, Eri Takeshita, Yuko Motohashi, Akiko Ishiyama, Takashi Saitou, Eiji Nakagawa, Kenji Sugai, Masayuki Sasaki, Miboh Murata, Kenji Miyama, Tetsuji Nakai
1. Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2. Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 3. Department of Surgery, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 4. Department of Anesthesiology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan

P-099  Severe developmental delay in a boy with 3.36 Mb microdeletion in Xp21.1 involving DMD gene
Naoko Shiba, Makoto Nishiyaka, Shoko Yamauchi, Yoichiro Kawasaki, Mitsuo Motobayashi, Kyoko Takano, Tomoki Kosho, Keiko Waku, Yoshimitsu Fukushima, Akinori Nakamura, Yuji Inaba
1. Azumino Red Cross Hospital, Azumino, Japan, 2. Department of Pediatrics, Shinshu University School of Medicine, Matsumoto, Japan, 3. Division of Clinical and Molecular Genetics, Shinshu University Hospital, Matsumoto, Japan, 4. Department of Medical Genetics, Shinshu University School of Medicine, Matsumoto, Japan, 5. Intractable Disease Care Center, Shinshu University Hospital, Matsumoto, Japan

P-100  The rate of school attendance and employment in patients with Duchenne muscular dystrophy in Japan
Noriko Sumitomo, Eri Takeshita, Hirofumi Komaki, Yuko Motohashi, Akiko Ishiyama, Takashi Saitou, Eiji Nakagawa, Kenji Sugai, Masayuki Sasaki, Ikuya Nonaka (Department of Child Neurology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-101  Initiation of glucocorticoid therapy for non-ambulatory patients with Duchenne muscular dystrophy
Yuka Ishikawa, Yukitoshi Ishikawa (Department of Pediatrics, National Organization Yakumo Hospital, Yakumo, Japan)

P-102  Usefulness of cardiac magnetic resonance strain imaging in Duchenne muscular dystrophy
Mamiko Tachikawa, Ayako Hattori, Daisuke Ieda, Ikumi Hori, Yutaka Negishi, Naoki Ando, Sachiko Inukai, Shinji Saitoh (Nagoya City University, Graduate school of Medical Sciences, Department of Pediatrics and Neonatology, Aichi, Japan)
State of Home mechanical ventilation in the institutes specializing in muscular dystrophy treatment
Toshio Saito1, Katsunori Tatara2
1.Division of Child Neurology, Department of Neurology, National Hospital Organization Toneyama National Hospital, Toyonaka, Osaka, Japan, 2.Tokushima Bunri University

Three cases of myasthenia gravis in childhood
Hiroshi Asai1, Masahiro Ishii1, Masayuki Shimono1, Yumeko Matsuda1, Tomofumi Fukuda1, Ayako Senju1, Shiho Takano1, Naoki Shiota2, Koseki Kusuhara3
1.The Department of Pediatrics, University of Occupational Envolmental Health, 2.UBE Industries, LTD. Department of Health Care &Support Center, Environment

The clinical study of myasthenia gravis at Nihon University Itabashi Hospital
Wakako Ishii1, Yukihiho Fujita2, Kaori Kimura1, Sonoko Kubota1, Emiko Momoki1, Yuki Kawamura1, Ayumi Fukuda1, Ryutaro Kohira1, Tatsuo Fuchigami1, Shouri Takahashi1
1.Department of Pediatrics and Child Health, Nihon University, Tokyo, Japan, 2.Division od Medical Education Planning and Development, Nihon University school of Medicine, Tokyo, Japan

Study of outcome measures of clinical trials in muscular dystrophy
Eri Takeshita1, Yasuyuki Iwata2, Hiroyuki Yajima2, Hisateru Tachimori3, Komaki Hirofumi4, Masayuki Sasaki1
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Our approach which aimed at ideal transition for muscular dystrophy patients to adult health care
Minobu Shichiji1, Keiko Ishigaki2, Terumi Murakami1, Madoka Mori2, Miho Murata2, Takatoshi Sato1, Kumiko Ishiguro1, Makiko Osawa1, Satoru Nagata1
1.Department of the Pediatrics, Tokyo Women's medical University, Tokyo, Japan, 2.National center of Nerology and Psychiatry, Tokyo, Japan

Respiratory function in patients with Ullrich congenital muscular dystrophy
Hisako Yamamoto, Akiko Ishiyma, Eri Takeshita, Yuko Motohashi, Takashi Saito, Eiji Nakagwa, Hirohumi Komaki, Kenji Sugai, Masayuki Sasaki (The Department of Childneurology, National Center of Neurology and Psychiatry, Tokyo, Japan)

Three cases of myotonic dystrophy type 1
Mariki Maezawa1, Youshi Doumo2, Kouichi Tamada2, Satomi Sonoda2, Kou Nishimura3, Michie Honjiyou4, Akiko Kamiishi2, Satoshi Kimiya2
1.TSURUMI University, Department of Dental Hygiene, Yokohama, Kanagawa, Japan, 2.ISE keiyu hospital, Ise city, Mie prefecture, Japan, 3.Suzuka medical science UNIVERSITY, 4.SHIMODA Medical clinic, shizuoka, Japan, 5.SHIMADA RIOIKU CENTER, TOKYO, JAPAN

High–dose IVIG was effective to a patient with myasthenia gravis crisis after thymectomy
Jun Kubota1, Ryuki Matsuura2, 3, Atsuko Oba1, Shin-Ichiro Hamano2
1.The Jikei University School of Medicine, Tokyo, Japan, 2.Saitama Children's Medical Center

The study of anti–measles, rubella and varicella antibody titer in neuromuscular disease patients
Seiko Itomi, Rie Suzuki, Souichi Mukaida, Kazuhiro Shiraiishi (The Department of Pediatric Neurology, National Hospital Organization Utano National Hospital, Kyot, Japan)

A case of fibromyalgia with hypercreatinekinasemia
Hiroto Akaike, Mina Kono, Atsushi Kato, Eiisuke Kondo (The Department of Pediatrics, Kawasaki Medical School)

Continuous NPPV in the management of a severe myotubular myopathy
Kenji Inoue, Tomohiro Kumada, Minoru Shibata, Ikuho Hiejima, Akihito Nozaki, Anri Hatashi, Mioko Mori, Saeko Sasaki, Tatsuma Fujii (Shiga Medical Center for Children, Pediatrics, Shiga, Japan)

A DYNC1H1 mutation causes SMA with lower extremity predominance and abnormal cortical development
Shinobu Fukumura1, Kentaro Kawamura1, Kouki Nikaio2, Nobutada Tach1, Hiroyuki Tsutsumi1, Yuri Uchiyama2, Naomichi Matsumoto2
1.The Department of Pediatrics, Sapporo Medical University School of Medicine, Sapporo, Japan, 2.The Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

Scoliosis and pulmonary function in patients with spinal muscular atrophy type 2 and 3
Chihiro Yonee, Akiko Ishiyma, Hisako Yamamoto, Eri Takeshita, Yuko Motohashi, Takashi Saito, Eiji Nakagawa, Hirofumi Komaki, Kenji Sugai, Masayuki Sasaki (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)
The 58th Annual Meeting of the Japanese Society of Child Neurology

P-119  A case of neuroleptic malignant syndrome with repetitive fever of focus unknown
Daisuke Tajima, Tadashi Satoh (The Department of Pediatrics, Ureshino Medical Center, NHO, Saga, Japan)

P-120  A Japanese case report: MEGF10 myopathy
Souichi Mukaida1, Rie Suzuki1, Seiko Itoh1, Satomi Mitsuhashi2, Kazuko Takayama2, Ichiro Nishino2, Kazuhiro Shiraishi1
1-National Hospital Organization Utano National Hospital, Kyoto, Japan, 2-National Center of Neurology and Psychiatry, Tokyo, Japan

P-121  Study of diagnosis in patients with high creatine kinase
Emi Iwabuchi, Akihiko Ishiyama, Eri Takeshita, Yuki Motohashi, Takashi Saito, Hirofumi Komaki, Eiji Nakagawa, Kenji Sugai, Masayuki Sasaki (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-122  Withdrawn

P-123  A case of spinal muscular atrophy type I with epilepsy
Shih Morigi, Takuzo Marukame, Masayuki Ishihara, Taku Oshi, Takatoshi Hosokawa, Mikiya Fujieda (Kochi Medical School Hospital)

Poster Presentation

Neuroimagings 1
Moderator: Masato Mori (Matsudo City Hospital Department of Pediatrics)

P-124  A one–year–old girl with Chiari 1 malformation and central cervical cord injury
Megumi Shiota1,2, Mizue Kanai2, Masato Mori2, Tomohiko Tsuru2
1-The Department of Pediatrics, National Rehabilitation Center for Children with Disabilities, Tokyo, Japan, 2-The Department of Pediatrics, Matsudo City Hospital, Chiba, Japan

P-125  Metabolic alteration in the brain of Asperger’s syndrome by using a magnetic resonance spectroscopy
Aya Goji1, Hiromichi Ito1, Kenji Mori2, Masafumi Harada1, Sonoka Hisaoka1, Yoshihiro Toda1, Tatsuo Mori1, Yoko Abe1, Masahito Misazaki1, Syoji Kage1
1-Department of Pediatrics, Tokushima University, Tokushima, Japan, 2-Department of Child Health & Nursing of Health Biociences, Tokushima University, Tokushima, Japan, 3-Department of Radiology, Tokushima University, Tokushima, Japan

P-126  Cytokine storm–derived Influenza virus–associated encephalopathy with AESD–like MRI findings
Yuko Ichimiy1, Masafumi Sanefuji1, Yasunari Sakai1, Satoshi Akamine1, Michiko Trito1, Sooonyoung Lee3, Yoshito Ishizaki1, Momoko Sasazuki1, Hiroyuki Torso1, Hidetoshi Takada1
1-Department of Pediatrics, Graduate School of Medicine, Kyushu University, Fukuoka, Japan, 2-Department of Pediatrics, Research Center for Environment and Developmental Medical Sciences, Kyushu University, Fukuoka, Japan, 3-Department of Intensive Care Medicine, Fukuoka, Japan, 4-Department of Pediatrics, Fukuoka Dental University, Fukuoka, Japan

P-127  A case of FOXP1 abnormal mutation with white matter abnormalities
Hiroko Tada1, Noriko Miyake2, Eri Imagawa1, Hirotomo Saitsu1,2, Naomichi Matsumoto2, Jun-Ichi Takanashi3
1-Chibaken Saiseikai Hospital, division of Pediatrics, Chiba, Japan, 2-Yokohama City University Graduate school of Medicine, Department of Human Genetics, Yokohama, Japan, 3-Tokyo Women’s Meedical University Yachiyo Medical Center, Department of Pediatrics, Yachiyo, Japan

P-128  Analysis of diffusion tensor imaging of brain atrophy in AESD caused by influenza infection
Hidetoshi Ishigaki, Yoshihumi Miyagi, Miki Asahina, Tomoko Matsubayashi, Tokiko Fukuda (Department of Pediatrics, Hamamatsu University School of Medicine, Shizuoka, Japan)

P-129  Unusual MRI findings in a case of infantile Alexander disease
Yuki Ohuchi1, Yoshitsugu Oikawa2, Yukimune Okubo2, Yuriha Uematsu2, Hiroki Sato2, Sato Suzuki1,2, Ryo Sato2, Atsuo Kikuchi2, Naomi Fukuyou2, Mitsuugu Uematsu2, Shigeo Kure2
1-Miyagi Children’s Hospital, Sendai, Japan, 2-Tohoku University Hospital, Sendai, Japan

P-130  A 11-year–old girl with spinal cord infarction caused by handstand
Saori Koga, Sunao Shihama, Katunori Fuji, Tomoyuki Fukuhari, Hajime Ikehara, Kentaro Okunushi, Naoki Saito, Ryota Ebata, Naoki Shimoyojo (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

P-131  A case study of mild encephalitis with a reversible splenial lesion (MERS) by ECD–SPECT
Nagase Shizuka, Yoshinobu Oyazato, Atsuko Kanagawa, Tomoshi Nakajiri, Sora Okita, Atsushi Nishiyama (Department of Pediatrics, Kakogawa West City Hospital, Hyogo, Japan)

P-132  Hyperintensity in hippocampus on DWI performed after status epilepticus in initial phase of AESD
Takuya Matsuda, Shuichi Shimakawa, Hiromitsu Toshikawa, Mari Hataneaka, Miho Fukui, Hiroshi Tamai (The Department of Pediatrics, Osaka Medical College, Osaka, Japan)

P-133  Retrospective study of single photon emission computed tomography in systemic lupus erythematosus
Nishiki Makioka, Kazuhiro Muramatsu, Noriko Sawaura, Tomomi Ogata, Hirokazu Arakawa (Department of Pediatrics, Gunma University Graduate School of Medicine, Gunma, Japan)
P-134  Development of the human inferior olivary nuclear complex: a computerized 3D-reconstruction study
Katsuyuki Yamaguchi (Department of Pathology, Dokkyo University School of Medicine, Tochigi, Japan / Department of Pediatrics, Southern Tohoku General Hospital, Koriyama, Japan)

P-135  A 16–year–old woman with schizencephaly who discovered by epileptic seizures
Yukiko Iida, Taku Omata, Yoshimi Watanabe, Kazuo Kodama (The Division of Neurology, Chiba Children's Hospital, Chiba, Japan)

P-136  A case with holoprosencephaly and periventricular nodular heterotopia with multiple seizure types
Motomasa Suzuki, Syo Narahara, Yusuke Aoki, Kazuya Itomi (Department of Pediatric Neurology, Aichi Children's Health and Medical Center, Obu, Japan)

P-137  Congenital bilateral perisylvian syndrome with heterotopias
Eina Taniguchi1, Naoki Karasawa1, Keigo Nakatani1, Hiroshi Aikou1, Takao Kodama2
1.Pediatrics, Miyazaki Prefectural Miyazaki Hospital, Miyazaki, Japan, 2.Pediatrics, Miyazaki Seikyo Hospital, Miyazaki, Japan, 3.Radiology, Miyazaki Prefectural Miyazaki Hospital, Miyazaki, Japan

P-138  Leukoencephalopathy with calcifications and cysts in a 9–year–old male child: a case report
Hiroya Nishida1, Satoko Kumada1, Shunpei Uchino1, Tomoko Mizunob, Ikuo Shirai1, Eiji Kurihara2, Jun-Ichi Takenashii2, Naomichi Matsumoto2
1.Department of Pediatric Neurology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan, 2.Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan, 3.Department of Human Genetics, Graduate School of Medicine, Yokohama City University, Yokohama, Japan

P-139  Study of head injury by falling; children less than 2 years of age in our hospital
Takako Fujita1, Hiroshi Ideguchi1, Eri Kawatani1, Yuko Tomono1, Yukiko Ihara1, Takahito Inoue1, Shinichi Hirose1, Sawa Yasumots2
1.Department of Pediatrics, Fukuoka University School of Medicine, Fukuoka, Japan, 2.Center of medical education, School of medicine, Fukuoka University

P-140  Brain MRI presenting bilateral thalamic lesion of Japanese encephalitis in a 10–month–old infant
Tatsuya Nishimura1, Yukie Arahata1, Katsuhiko Kitazawa1, Akihito Honda1, Katsunori Fujii2
1.Asahi General Hospital, Asahi, Japan, 2.University of Chiba, Chiba, Japan

P-141  Pyruvate dehydrogenase complex deficiency with a subependymal cyst and intraventricular septation
Yusuke Aoki1, Kazuya Itomi1, Syo Narahara1, Motomasa Suzuki1, Kiyokuni Miura1
1.Department of Neurology, Aichi Children's Health and Medical Center, Obu, Aichi, Japan, 2.Department of Child Neurology, Toyota Municipal Child Development Center, Toyota, Japan

P-142  Morphometric analysis of the brainstem area on MRI in Rett syndrome
Yuki Anzai1, Masaharu Hayashi1, Yuri Nagao1, Kazue Kimura1, Kyoko Hoshino1, Hiroshi Oba2
1.Neurological Clinic for Children, Tokyo, Japan, 2.Department of Radiology Teikyo University School of Medicine, Tokyo, Japan

P-143  3 cases mimicking Walker–Warburg syndrome of their MRI findings
Tsukasa Ohashi1, Jun Toyama1, Satoru Kinoshita1
1.Department of Pediatrics, Niigata University Medical and Dental Hospital, Niigata, Japan, 2.Department of Child Neurology, Nishi-Niigata Chuo National Hospital, Niigata, Japan, 3.Department of Pediatrics, Niigata National Hospital, Kashiwazaki, Japan

P-144  3 children with cerebral infarction developed by different mechanism
Taiki Shima1, Shinpei Abe1, Naho Matsushima1, Ayuko Igarashi1, Mitsuru Ikeno1, Shinichi Niijima2, Toshiaki Shimizu1
1.Juntendo University Hospital, 2.Juntendo Shizuoka Hospital

P-145  A pediatric case of XP-D which are showing hyperactivity, intellectual disability and cataract
Tomoko Matsubayashi1, Yusuke It1, Taiju Hayashi1, Yoshifumi Miyagi1, Miki Asahina1, Akiko Hikoya2, Masahiro Aoshima3, Shinichi Moriwaki4, Tokiko Fukushima4
1.The department of Pediatrics, Hamamatsu University School of Medicine, Hamamatsu, Japan, 2.The department of Ophthalmology, Hamamatsu University School of Medicine, Hamamatsu, Japan, 3.The department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan, 4.The department of Dermatology, Osaka Medical College, Osaka, Japan
P-146  A girl of mitochondrial disease with unusual mitochondrial DNA mutation G324A
Masahiro Ito1, Hisamitsu Tamaki1, Yujir Tateoka2, Kazumi Nishino1, Yuichi Goto1, Yuki Kasuga1, Tadayasu Kawaguchi1
1.Department of Pediatrics, Tokyo Metropolitan Bokuto Hospital, Tokyo, Japan, 2.Department of Pediatrics, Tokyo Metropolitan East Rehabilitation Center, 3.National Institute of Neuroscience, National Center of Neurology and Psychiatry

P-147  A girl case of mimicking MLC image presenting with intracranial hypertension
Madoka Kajimoto1, Hirofumi Inoue1, Hikaru Kobayashi1, Fumitaka Kohno1, Hiroko Yamada1, Monoko Oka1, Takeshi Matsushige1, Sadahiro Nomura1, Junichi Takanashi2, Hiroaki Nozaki1, Hirotomo Saitsu1, Naomichi Matsumoto1, Shouichi Ohs1
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P-148  A case of spinal muscular atrophy with respiratory distress type 1 with the IGHMBP2 gene mutations
Hitoshi Sato1,2, Yoshitomo Yasui2, Yo Niida3, Sanada Mitsuru1, Chisato Akita1, Azusa Kobayashi1, Kanju Ikeno1, Miyuki Kohno2, Yutaka Saigawa1
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P-149  Leukoencephalopathy with cortical involvement and peripheral neuropathy due to FOLR1 deficiency
Yu Kobayashi1, Takao Komatsu1,2, Shinichi Magara1, Kenichi Okazaki1, Jun Tohyama1, Tomoyuki Akiyama1, Hirotomo Saitsu3, Naomichi Matsumoto1
1.Department of Pediatrics, School of Medicine, Kanazawa Medical University, Ishikawa, Japan, 2.Department of pediatric developmental Pediatrics, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, 3.Center for Medical Genetics, School of Medicine, Kanazawa Medical University, Ishikawa, Japan, 4.Department of Neurology, School of Medicine, Kanazawa Medical University, Ishikawa, Japan

P-150  Dermatomyositis and interstitial pneumonitis in a patient with xeroderma pigmentosum
Toshino Motojima1,2, Nishiki Makio1, Noriko Sawaura1, Kazuhiro Muramatsu1, Masaharu Hayashi1, Hiroyuki Arakawa1
1.Department of Pediatrics, Gunma University Graduate School of Medicine, Gunma, Japan, 2.The Department of Pediatrics, Motomachi General Hospital, Gunma, Japan, 3Department of Pediatrics, School of Medicine, Kanazawa Medical University, Ishikawa, Japan, 4.Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

P-151  A case of adolescence-onset, rapidly progressive amyotrophic lateral sclerosis
Konomi Shimoda1, Mariko Kasai1, Satake Ohta1, Yoko Mizuno1, Atsushi Sato1, Akira Oka1, Masahiro Mizuguchi2
1.The Department of Pediatrics, Pediatrics, University of Tokyo, Tokyo, Japan, 2.Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

P-152  Alternating hemiplegia of childhood with the G755S mutation of the ATP1A3 gene, a case report
Tomohiro Ito1, Masashi Narugami1, Kiyoshi Egawa1, Hiroyuki Yamamoto1, Shinobu Kohsaka1, Atsushi Ishii2, Shinichi Hirose2, Hideaki Shirahashi1
1.Department of Pediatrics, Hokkaido University Hospital, Sapporo, Japan, 2.Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan

P-153  A case of dentatorubral–pallidoluysian atrophy with electrical status epilepticus in sleep
Kaoru Moriyama1, Tatsuharu Sato1, Daishi Inoue1, Kouhei Haraguchi1, Kiyoko Watanabe1,2,3, Yoshiki Watanabe1,2,3, Hiroyuki Moriuchi1
1.The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan, 2.SAISEIKAI NAGASAKI HOSPITAL, 3.Nagasaki Harbor Medical Center City Hospital

P-154  A case of immune–mediated neuropathies after measles–like viral infection and HLH
Kenji Uematsu, Kiyotaka Zaha, Yasuko Nakamura, Hiroshi Matsumoto (Department of Pediatrics, National Defense Medical College, Saitama, Japan)

P-155  Sequential MRI changes in two cases with CACNA1A gene mutation
Yu Tsuyusaki1, Azusa Ikeda1, Yumiko Takashima1, Keiko Watanabe1, Kazushi Ichikawa1, Megumi Tsuji1, Mizue Iai1, Sumimasa Yamashita1, Noriko Aida1, Hirotomo Saitsu1, Naomichi Matsumoto1, Tomohide Goto1
1.Division of Neurology, Kanagawa Childrens Medical Center, Yokohama, Japan, 2.Division of Radiology, Kanagawa Childrens Medical Center, Yokohama, Japan, 3.School of Medicine, Yokohama City University, Yokohama, Japan
P-156  A patient with Charcot–Marie– Tooth disease who had a mutation in the Krabbe–disease–causing gene
Tatsuya Fujii1, Fumihito Nozaki1, Tomohiro Kumada1, Yujiro Higuchi1, Akihiro Hashiguchi2, Hiroshi Takashima2, Kaori
Irahara3, Norio Sakai4
1. Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Japan, 2. Department of Neurology and
Geriatrics, Kagoshima University, Kagoshima, Japan, 3. Department of Pediatrics, Osaka University, Osaka, Japan,
4. Division of Health Sciences, Osaka University, Osaka, Japan

P-157  Treatment of self–injurious behaviors in Lesch–Nyhan syndrome with S–adenosylmethionine
Masami Togawa1, Yoshiaki Saito2, Yoshihiro Maegaki2, Kousaku Ohno3
1. Department of Pediatrics, Tottori Prefectural Central Hospital, Tottori, Japan, 2. Division of Child Neurology, Department
of Brain and Neurosciences, Faculty of Medicine, Tottori University, Yonago, Japan, 3. Department of Pediatrics, Sanin Rosai
Hospital, Yonago, Japan

P-158  PDHC deficiency in a girl misdiagnosed with neonatal hypoxic ischemic encephalopathy
Kouta Sasaki1, Akira Kumakura1, Yuichi Goto2, Rie Nakai1, Daisuke Hata1
1. Kitano Hospital, The Tazuke Kofukai Medical Research Institute, 2. Department of Pediatrics, University of Osaka, Osaka,
Japan

P-159  The phenotype in Krabbe disease correlates with total galactocerebrosidase activity of both alleles
Kaori Irahara1, Takenobu Otomo1, Hidehito Kondo1, Yusuke Hamada1, Keiichi Ozono1, Norio Sakai2
1. The Pediatric Department, Osaka University Graduate School of Medicine, Osaka, Japan, 2. The Division of Health
Sciences, Osaka University Graduate School of Medicine, Osaka, Japan

P-160  How could we diagnose a girl with Leigh encephalopathy with succinate–CoA ligase deficiency?
Mioko Mori1, Tomohiro Kumada1, Yu Hiramatsu2, Yuji Okamoto2, Hiroshi Takashima2, Kei Murayama3, Minoru Shibata1,
Fumihito Nozaki1, Ikuko Hiejima1, Anri Hayashi1, Kenji Inoue1, Saeko Sasaki1, Tatsuya Fujii1
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Geriatrics, Kagoshima University Graduate School of Medical and Dental Science, Kagoshima, Japan, 3. Department of
Metabolism, Chiba Children’s Hospital, Chiba, Japan

P-161  Arginine therapy for a child case of MELAS/Leigh overlap syndrome with the mtDNA G13513A mutation
Yoichiro Kawasaki1, Makoto Nishioka1, Syoko Yamauchi2, Mitsuo Motobayashi3, Naoko Shiba4, Takahumi Nishimura2, Yuji
Inaba1
1. Department of Pediatrics, Shinshu University School of Medicine, Matsumoto, Nagano, Japan, 2. Department of Pediatrics,
Matsumoto Medical Center Chushinmatsumoto Hospital, Matsumoto, Nagano, Japan, 3. Department of Pediatrics, Japanese
Red Cross Society Azumino Hospital, Nagano, Japan

P-162  A methylenetetrahydrofolate reductase deficiency patient with rapid psychomotor regression
Yusuo Hachiya1,2, Hitoshi Osaka1, Hiroyasu Nakagawa1, Hiroyasu Nakagawa1, Ryota Kato1, Takahumi Nishimura2, Yuji
Kirkawa1, Naomichi Matsumoto2
1. Department of Pediatrics, Higashinagano Medical Center, Higashinagano, Nishinomiya, Hyogo, Japan, 2. Department of Neurology and
Pediatrics, Tokyo Metropolitan Neurological Hospital, Fuchu, Tokyo, Japan, 3. Department of Pediatrics, Jichi Medical University,
Shimotsuma, Tochigi, Japan, 4. Department of Health Sciences, Yokohama City University Graduate School of Medicine,
Yokohama, Japan

P-163  Clinical course of a patient with late infantile NCL caused by mutation in CLN10
Takanori Ezo1, Harumi Saijou1, Sui Sone1, Katsuhito Araki1, Hisaharu Suzuki1, Kiyoko Kurata1, Hirotomo Saitsu2
1. Department of Pediatrics, Tokyo Metropolitan Higashiyamatoo Medical Center for Developmental/Disabilities, Higashiyamoto,
Tokyo, Japan, 2. Department of Human Genetics, Graduate School of Medicine, Yokohama, Japan

P-164  Clinical course observation of a patient with neuronal ceroid lipofuscinosis 10
Takanori Ezo1, Harumi Saijou1, Sui Sone1, Katsuhito Araki1, Hisaharu Suzuki1, Kiyoko Kurata1, Hirotomo Saitsu2
1. Department of Pediatrics, Tokyo Metropolitan Higashiyamato Medical Center for Developmental/Disabilities, Higashiyamoto,
Tokyo, Japan, 2. Department of Human Genetics, Graduate School of Medicine, Yokohama, Japan

P-165  Therapeutic strategies for the treatment of epileptic spasms due to nonketotic hyperglycinemia
Akiko Kato1, Mondo Kuroda1, Hiroyasu Nakagawa1, Ayano Yokoi1, Yusuke Mitani1, Yo Niida2
1. Department of Pediatrics, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Ishikawa,
Japan, 2. Center for Medical Genetics, Kanazawa Medical University Hospital, Uchinada, Japan
**Poster Presentation**

**Metabolic disease 2**

Moderator: Eiji Nakagawa (Department of Child Neurology, National Center Hospital, NCNP)

P-166 Effect of liver transplantation for infantile Refsum disease
Tadayuki Kumagai, Yu Kakimoto, Akiko Yakawa, Go Takei, Satoshi Takenaka, Hiroshi Terashima, Masaya Kubota, Masatoshi Matsunami, Mureo Kasahara, Nobuyuki Shimozawa.

1. Division of Neurology, National Center for Child Health and Development, Tokyo, Japan, 2. Organ Transplantation Center, National Center for Child Health and Development, Tokyo, Japan, 3. Division of Genomics Research, Life Science Research Center, Gifu University, Gifu, Japan

P-167 A case of Lech–Nyhan syndrome diagnosed as a cerebral palsy associated with perinatal problems
Miyuki Toyono, Yukio Sawanishi, Kayoko Saitou, Atsuo Taniguchi.

1. Akita Prefectural Rehabilitation Center on Development and Disability, Akita, Japan, 2. Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo, Japan, 3. Institute of Rheumatology, Tokyo Women's Medical University, Tokyo, Japan

P-168 Early management for two infantile siblings born to GLUT1 deficiency mother with SLC2A1 mutation
Hidetsugu Nakatsukasa, Yasushi Ito, Akiko Takeshita, Kyoko Hirasawa, Satoru Takahashi, Hirokazu Oguni, Satoru Nagata.

1. Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2. Department of Pediatrics, Aiku hospital, Tokyo, Japan, 3. Department of Pediatrics, Asahikawa Medical University, Asahikawa, Japan

P-169 Asparagine synthetase deficiency: functional analysis of ASNS gene
Takahiro Yamamoto, Hidenori Ohnishi, Kazuo Kubota, Saori Nishimura, Yukiko Kasahara, Kenji Orii, Atsushi Imamura, Hirotomo Saito, Naomichi Matsumoto, Toshiyuki Fukao.

1. Department of Disability Medicine, Graduate School of Medicine, Gifu University, Gifu, Japan, 2. Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan, 3. Neonatal Intensive Care Unit, Gifu University Hospital, Gifu, Japan, 4. Department of Pediatrics, Gifu Prefectural General Medical Center, Gifu, Japan, 5. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

P-170 Non-convulsive status epilepticus in a girl with ornithine transcarbamylase deficiency
Sadami Kimura, Ryouko Hayashi, Tae Ikeda, Yukiko Mogami, Keiko Yanagihara, Yasuhiro Suzuki, Kouji Azumakawa, Nobuhiro Okamoto.

1. Osaka Medical Center And Research Institute For Maternal And Child Health, Osaka, Japan, 2. Keiseikai Hospital, 3. Osaka Medical Center And Research Institute For Maternal And Child Health, Osaka, Japan

P-171 Diagnosis and prognosis of the neurometabolic diseases among our department
Koru Eto, Yasushi Ito, Keiko Ishigaki, Makoto Funatsuka, Hirokazu Oguni, Makiko Osawa, Satoru Nagata (Tokyo Women's Medical University, Tokyo, Japan)

P-172 A Case of Glucose Transporter Type 1 Deficiency Syndrome
Akira Iwanaga, Daisuke Tajima, Tadashi Satou (NHU Ueshino Medical Center, Saga, Japan)

P-173 One case of Menkes disease to easily cardiac arrest after crying
Masao Suda, Go Shimomura, Tomoko Saikusa, Kotaro Yuge, Shinichiro Nagamitsu, Yushiro Yamashita.

1. Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan, 2. Department of Pediatrics, St. Mary's Hospital, Kurume, Japan

P-174 Tyrosine hydroxylase deficiency caused by heterozygous mutations: a case of dopa-responsive dystonia
Kozue Kuwabara, Toshihiro Jamamoto, Mitsumasa Fukuda, Masahiko Miyamoto, Yasuhiro Ishida, Eichi Ishii, Haruo Shintaku.

1. Department of Pediatrics, Ehime Prefectural Central Hospital, Matsuyama city, Ehime, Japan, 2. Department of Pediatrics, Ehime University Graduate School of Medicine, Toon city, Ehime, Japan, 3. Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka, Japan

P-175 G13513A mutation associated late-onset Leigh syndrome characterized by early renal involvement

1. The Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan, 2. The Department of Mental Retardation and Birth Defect Research, National Center of Neurology and Psychiatry, Tokyo, Japan, 3. The Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan, 4. The Department of Neurology, Saitama Children's Medical Center, Saitama, Japan
P-176  Reversible cerebral vasoconstriction syndrome in a case with cerebellitis
Yoshitsugu Oikawa1, Mitsugu Uematsu1, Yukimune Okubo1, Yurika Uematsu1, Taro Kitamura2, Yu Aihara2, Masaru Takayanagi2, Yukitoshi Takahashi3, Shigeo Kure3
1. Department of Pediatrics, Tohoku University, Sendai, Japan, 2. Department of Pediatrics, Sendai City Hospital, Sendai, Japan, 3. National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorder, Shizuoka, Japan

P-177  A case of Lhermitte–Duclus disease with paroxysmal, recurrent episodes of vomiting after birth
Chika Somagawa1, Ryoko Honda1, Tomonori Ono2, Keisuke Toda3, Noriko Koide4, Tadateru Yasu1, Shigeki Tanaka1, Hiroshi Baba4
1. Department of Pediatrics, National Hospital Organization Nagasaki Medical Center, Nagasaki, Japan, 2. Department of Neurosurgery, National Hospital Organization Nagasaki Medical Center, Nagasaki, Japan

P-178  A case of brain arteriovenous malformation with tuberous sclerosis complex
Reimi Tsurusawa, Hitomi Hayashi, Sawo Kurata, Aiko Nakao, Atsushi Ogawa (The Department of Pediatrics, Chikushi Hospital, Fukuoka University, Fukuoka, Japan)

P-179  A boy developed perimesencephalic nonaneurysmal subarachnoid hemorrhage in playing catch
Aya Sato (The Department of Pediatrics, Hikone Municipal Hospital, Shiga, Japan)

P-180  Post traumatic cervical artery dissection with cervical infarction in a 2-year-old child
Takeshi Oki, Masano Amamoto, Yoshinori Okahata, Yusuque Ono, Kaya Ono, Tatsuhito Yasaka, Ichiro Tomita, Yoshie Tomita, Chie Murakami, Takuya Matsushima, Hiromasa Yamane, Norio Imamura, Shin-akku Shibashi, Junji Kamizono, Kotaro Ichikawa (Kitakikushu Municipal Yabata Hospital Pediatrics Emergency Center, Fukuoka, Japan)

P-181  Tuberous sclerosis complex patients treated with Everolimus
Machiko Hosoya (Saku Central Hospital, Nagano, Japan)

P-182  A six year old girl who developed the spinal cord infarction after stretching her back
Satoshi Takenaka, Yu Kakimoto, Akiko Yukawa, Gou Takei, Tadayuki Kumagai, Hiroshi Terashima, Masaya Kubota (Department of Neurology, National Center for Child Health and Development, Tokyo, Japan)

P-183  Cerebral infarction in a three-month-old boy suspected with neurofibromatosis type 1
Hiroaki Kondo1, Atsuya Sugimoto1, Shigemi Moroioka1, Satoko Hirano2, Yasunori Ishiihara2, Shinichi Harukie2, Yoshinori Ishiihara1, Masao Kawatani2, Genrei Ohta2
1. Department of Pediatrics, Fuku Aiiku Hospital, Fuku, Japan, 2. Department of Pediatrics, Faculty of Medical Sciences, University of Fuku, Fuku, Japan

P-184  Pediatric brainstem infarction in a patient with protein S deficiency
Hikaru Kobayashi, Hirofumi Inoue, Momoko Oka, Madoka Kajimoto, Takeshi Matsushige, Shouuchi Ohga (Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan)

P-185  Moyamoya disease with internal carotid artery aneurysms in early infancy
Ryosuke Tanaka1, Satomi Okano1, Akio Okayama2, Nao Suzuki2, Satoru Takahashi1, Hiroshi Azuma1, Shigeo Kure2
1. Department of Pediatrics, Asahikawa Medical University, Asahikawa, Japan, 2. Department of Pediatrics, Tohoku University Graduate School of Medicine, Sendai, Japan

P-186  4 years-old–boy diagnosed of Moyamoya disease with breath-holding spells
Kozue Harada1, Noboru Yoshida2, Tomoyuki Nakazawa2, Shinichi Niijima2, Jyoji Takugawa1, Makoto Hishii1, Shigeo Kure5
1. Musashimurayama Hospital, 2. Department of Pediatrics, Juntendo Nerima Hospital, 3. Department of Nuerosurgery, Juntendo Nerima Hospital, 4. Toshima Hospital, 5. Tohoku University

P-187  A case of acute motor sensory axonal neuropathy developed in single arm
Sadao Nakamura, Azusa Ooshiro, Kunihiro Tamashiro (Department of Pediatrics, Faculty of Medicine, University of the Ryukyus, Okinawa, Japan)

P-188  A case of axonal Guillain–Barré syndrome: efficacy of early intravenous immunoglobulin
Hikari Kaba1, Yu Fujiwara1, Yoshihiro Watanabe1, Saoko Takeshita1, Ayako Yamamoto2, Nobutaka Oyama2
1. Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan, 2. Department of Pediatrics, Yokoshami-Tobu Saiseigai Hospital, Yokohama, Japan

P-189  Congenital pes cavus in six cases with progressive sensorimotor neuropathy
Mai Anzai1, Ryo Sato2, Yusuke Takezawa1, Wakaba Endo1, Takehiko Inui1, Yoshiko Tanaka1, Kazuhiro Haginoya1
1. Department of Pediatrics, Takuto Rehabilitation Center for Children, Sendai, Japan, 2. Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan, 3. Department of Pediatrics, Sendai Red Cross Hospital, Sendai, Japan
P-190  Ascorbic acid for Charcot–Marie–Tooth disease type 1A in children
Hiromi Mizuochi1,2, Katsunori Fujii1, Tomoyuki Fukushima1, Hajime Ikehara1, Tadashi Shiohama2, Hideki Uchikawa1,2, Naoki Shiojo
Pediatriere, Eastern Chiha Medical Center, Chiba, Japan. 2. The Department of Pediatrics, Graduate school of Medicine, Chiha University, Chiha, Japan

P-191  A new culture model of myelination morphological findings and attempts to reproduce CMT pathology
Yurika Uematsu1,2, Syuuji Watsuaki2, Kazuhisa Sakai1, Noritaka Ichinohe1, Mitsugu Uematsu1, Shigeo Kure1, Toshiyuki Araki1
1. Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan. 2. Department of Peripheral Nervous System Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan. 3. Department of Ultrastructural Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan

P-192  Two case reports of childhood-onset multifocal acquired demyelinating sensory and motor neuropathy
Shumpei Uchino1, Tatsuya Fukasawa2, Satoko Kumada1, Hiroya Nishida1, Tomoko Mizuno1, Ikuko Shirai1, Yasuo Hachiya1, Eiji Kurihara1
1. Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan. 2. Anjo Kosei Hospital, Anjo, Japan

P-193  Siblings with congenital myasthenic syndrome misdiagnosed as congenital myopathy
Fumio Ichinose1, Muneaki Matsuo2, Masafumi Kosugi2, Osamu Higuchi1, Tatsuya Okuno2, Kinji Ohno3
1. Department of Pediatrics, Saga Medical Center Koseikan, Saga, Japan. 2. Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan. 3. Division of Neurology, Department of Internal medicine, Faculty of Medicine, Saga University, Saga, Japan. 4. Clinical Research Center, NHO Nagasaki Kawatana Medical Center, 5. Division of Neurogenetics, Nagoya University Graduate School of Medicine

P-194  The efficacy of tacrolimus for chronic inflammatory demyelinating polyneuropathy
Saoko Takeshita, Hikari Kaba, Yuh Fujiwara, Yoshihiro Watanabe (Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)

P-195  Successful management of filminant Guillain–Barré syndrome and its complications
Manami Akasaka, Atsushi Ramei, Nami Araya, Sachiko Tanifuji, Haruna Yokoyama (Iwate Medical University, Morioka, Iwate, Japan)

P-196  Does long-term vitamin B6 treatment in epilepsy patients have harmful effects on peripheral nerves?
Takushi Inoue, Takashi Shibata, Fumika Endoh, Makio Oka, Tomoyuki Akiyama, Katsuhiro Kobayashi, Harumi Yoshinaga (Department of Child Neurology, Okayama University Hospital, Okayama, Japan)

P-197  A case of SMRD1 without IGHBP2 mutation
Kentaro Shirai1, Haruna Yokoyama1, Hiroshi Shiraku1, Atuko Yamamoto1, Akiko Haibara1, Haruka Ooguro2, Tomohiro Nakayama2, Akimitu Watanabe1, Makiko Saiioh1, Masashi Mizuguichi3
1. Tsukushi Kyoyo Hospital, Department of Pediatrics, Tsukushi Ibaragi, Japan. 2. Ibaragi Prefectual University of health sciences, Ami, Ibaragi, Japan. 3. Tokyo University, Department of developmental medical sciences, Tokyo, Japan. 4. Toride Kyoyo Hospital, Department of Pediatrics, Toride, Ibaragi, Japan

Poster Presentation

Involuntary movement

Poster Exhibition Hall 18:30-19:00

Moderator: Kyoko Hoshino (Neurological Clinic for Children)

P-198  Clinical evaluation of patients with delayed motor development with ataxia and/or hypotonia
Kenichi Okazaki1, Noriuki Akasaka2, Takao Komatsubara1, Shinichi Magara1, Yu Kobayashi1, Megumu Tojo2, Jun Tohyama1
1. Department of Pediatrics, Nishi-Niigata Chuo National Hospital, Niigata, Japan. 2. Department of Pediatrics, Niigata Prefecture Hamagumi Rehabilitation Center for Children with Disabilities, Niigata, Japan

P-199  A case of DRPLA with involuntary movement
Michiko Torio1, Yasunari Sakai1, Masafumi Sanefuji2, Yoshito Ishizaki1, Hiroyuki Torisu1,2, Hidetoshi Takada1
1. Department of Pediatrics, Graduate School, Kyushu University, Fukuoka, Japan. 2. Research center for Environment and Developmental medical sciences, Kyushu University, Fukuoka, Japan. 3. Department of Pediatrics, Fukuoka dental college, Fukuoka, Japan

P-200  Idiopathic basal ganglia calcification with paroxysmal kinesigenic dyskinesia in a 11-year-old girl
Ritsuko Oshabashi, Hiroki Iwasaki, Yukiko Oosawa, Kimiko Tamagawa, Toshimasa Obonai (Department of Pediatrics, Tama-Hokubu Medical Center, Tokyo, Japan)

P-201  The 8 year boy diagnosed as brain tumor, who presented with characteristic involuntary movement
Tomoya Ishida1, Hiroyuki Shirai1,2, Taira Toki2, Toshiyuki Iwasaki2, Masahiro Ishii2
1. Department of Pediatrics, Sagamidai Hospital, Kanagawa, Japan. 2. Department of Pediatrics, Kitasato University School of medicine
P-202 A girl with excessive startle responses and hypertonia beginning from birth
Mika Nakazawa\(^1\), Mitsuru Ikeno\(^2\), Shinpei Abe\(^2\), Ayuko Igarashi\(^2\), Tomoyuki Nakazawa\(^2,3\), Toshiaki Shimizu\(^4\), Akihisa Okumura\(^5\), Shinichi Niijima\(^6\), Toshiaki Shimizu\(^7\)
\(^1\)Department of Pediatrics, Sanikkai Hospital, Tokyo, Japan, \(^2\)Department of Pediatrics, Juntendo University Faculty of Medicine, Tokyo, Japan, \(^3\)The Department of Pediatrics, Tohoku Hospital, Tokyo, Japan, \(^4\)Department of Pediatrics, Tottori University Faculty of Medicine, Tottori, Japan, \(^5\)Department of Pediatrics, Aichi Medical University Faculty of Medicine, Aichi, Japan, \(^6\)Department of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan

P203 A case of paroxysmal kinesigenic dyskinesia with Moyamoya disease
Takao Morimune, Shinobu Yoshida, Tamayo Ishikawa, Kashiho Nishizawa (Department of Pediatrics, Omihachiman Community Medical Center, Shiga, Japan)

P-204 Clinical features of child–onset restless legs syndrome (RLS)
Yuri Nagaoka\(^1\), Kazue Kimura\(^1\), Kei Hachimori\(^1\), Masaharu Hayashi\(^2\), Kyoko Hoshino\(^3\)
\(^1\)Neurological Clinic for Children, Tokyo, Japan, \(^2\)Dept. of Brain Dev. & Neuro Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

P-205 A case of paroxysmal nonkinesigenic dyskinesia with iron supplement
Yuko Tsuda, Akira Tamura, Koichi Minami (Department of Pediatrics, Wakayama Medical University, Wakayama, Japan)

P-206 A case of Lesch–Nyhan syndrome
Ken Momosaki, Tomoko Kashiki, Shiro Ozasa, Keiko Nomura (Department of Pediatrics, University of Kumamoto, Kumamoto, Japan)

Poster Presentation
Autonomic nervous system and headache

Moderator: Akira Nishimura (Department of Pediatrics, Kyoto Prefectural University of Medicine)

P-207 A case of idiopathic intracranial hypertension with remarkable response to topiramate
Marie Noda, Yuri Sonoda, Megumi Takemoto (Department of Pediatrics, Hamanomachi Hospital, Fukuoka, Japan)

P-208 Ten-minute–triage for acute headache with Chinese herb medicine (Goreisan and Goshuyuto)
Tadashi Matsuda (Misato Family Clinic, Saitama, JAPAN)

P-209 Retinal migraine: a case report
Toshiyuki Hikita (Hikita Pediatric Clinic)

P-210 Arterial spin labeling MRI in acute confusional migraine
Yoshiaki Watanabe\(^1,2\), Kouhei Haraguchi\(^2\), Tatuharu Sato\(^2\), Kyoko Watanabe\(^3\), Nanako Nishiguchi\(^4\), Hiroyuki Moriuchi\(^2\), Reiko Ideguchi\(^5\)
\(^1\)Department of Pediatrics, Nagasaki Harbor Medical center City Hospital, Nagasaki, Japan, \(^2\)Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan, \(^3\)Department of Pediatrics, Saiyuki Nagasaki Hospital, Nagasaki, Japan, \(^4\)Department of Pediatrics, Sasebo City General Hospital, Nagasaki, Japan, \(^5\)Department of Radiological science, Nagasaki University Hospital, Nagasaki, Japan

P-211 Efficacy of Hangebyakujutsutemmato for chronic headache in children, Second report
Eiji Kurihara, Shunpei Uchino, Ikuko Shirai, Yasuo Hachiya (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)

P-212 A case of sporadic hemiplegic migraine with ATP1A2 mutation
Tsuyoshi Omi\(^1,2\), Yoshimichi Hirayama\(^1\), Sawako Yamazaki\(^3\), Atsushi Ishii\(^4\), Shinichi Hirose\(^3\)
\(^1\)Department of Pediatrics, Naha City Hospital, Naha, Okinawa, Japan, \(^2\)Department of Pediatrics, Chibana Clinic, Okinawa, Okinawa, Japan, \(^3\)Department of Pediatrics, Nagaoka Ryoikuen, Nagaoka, Niigata, Japan, \(^4\)Department of Pediatrics, School of Medicine Fukuoka University, Fukuoka, Japan

P-213 Two cases of autoimmune autonomic ganglionopathy
Toshiyuki Maeda\(^1\), Hiromichi Tomino\(^1\), Keiko Hirabaru\(^1\), Daisuke Tajima\(^1\), Muneaki Matsuo\(^1\), Masafumi Kosugi\(^2\), Syunya Nakane\(^3\), Osamu Higuchi\(^4\)
\(^1\)Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan, \(^2\)Faculty of Medicine Saga University, Division of Neurology, Department of Internal medicine, \(^3\)Department of Neurology, Graduate School of Medical Sciences, Kumamoto University, \(^4\)National hospital organization, Nagasaki Kawatana medical center

P-214 Clinical features of pediatrics patients in headache clinic of Tokyo Medical University
Mika Takeshita, Gaku Yamanaka, Shingo Oana, Yu Ishida, Shinichi Morichi, Natsumi Morishita, Tomomi Urabe, Tasuku Miyajima, Hisashi Kawashima (Tokyo Medical University, Tokyo, Japan)

P-215 Two cases of sphenoid sinusitis complained of severe headache
Tomoyuki Nakazawa\(^1\), Akihiro Nakao\(^1\), Takayuki Kuriya\(^1\), Mitsuru Ikeno\(^2\), Shinpei Abe\(^2\), Noboru Yoshida\(^3\), Shintaro Yamashita\(^4\), Shinichi Niijima\(^5\), Toshiaki Shimizu\(^6\)
\(^1\)Department of Pediatrics, Tokyo Metropolitan Health and Medical Treatment Corporation Toshima Hospital, Tokyo, Japan, \(^2\)Department of Pediatrics, Juntendo University School of Medicine, Tokyo, Japan, \(^3\)Department of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan
June 4th

**Poster Presentation**

**Epilepsy and convulsive diseases 4**

Moderator: Jun Tooyama (Nishi-Niigata chuo National Hospital)

P-216  A case of CDKL5 disorder : improved ADL by simple treatment strategy for intractable seizures
Tatsuhiho Shike1,2, Yukitoshi Takahashi3, Nobusuke Kimura4, Katsumi Imai5, Yukio Yamashita1,2, Toshiyuki Yamamoto6, Takao Takahashi2
1.Department of Pediatrics, Yokohama Municipal Citizens Hospital, Yokohama, Japan, 2.Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan, 3.National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan, 4.Department of Pediatrics, Otsu Red Cross Hospital, Otsu, Japan, 5.Tokyo Women's Medical University Integrated Medical Sciences Institute, Tokyo, Japan

P-217  A girl of early onset epileptic encephalopathy with de novo mutations in SLC35A2
Tomokazu Kimizu1, Asako Horino1, Shinsaku Yoshitomi2, Tatsuo Mori1,2, Tokito Yamaguti1, Hiroko Ikeda1, Hideo Shigematsu1, Katsumi Imai1, Nobuhiko Okamoto2, Mitsuko Nakashima2, Hirotomo Saitsu1, Mitsuhiro Kato1, Naomichi Matsumoto4, Yukitoshi Takahashi1, Yushi Inoue1
1.Department of pediatrics, National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, NHO, Shizuoka, Japan, 2.Department of Pediatrics, Graduate School of Medical Sciences, Tokushima University, 3.Deptartment of Genetic Medicine, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan, 4.Department of Human Genetics, Yokohama City University Graduate School of Medicine, Kanagawa, Japan, 5.Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan

P-218  Congenital long QT syndrome and partial seizure caused by a KCNQ1 mutation
Atsuo Daido1, Rintaro Ono1, Masaaki Ogihara1, Shinsuke Hirabayashi1, Mina Yokoyama1, Takeaki Shirai2, Miwa Ozawa1, Isao Kusakawa1, Atsushi Manabe1
1.Department of Pediatrics, St. Luke's International Hospital, Tokyo, Japan, 2.Department of Cardiology, St. Luke's International Hospital, Tokyo, Japan

P-219  A case of inherited GPI deficiency caused by mutations in PIGL : ictal EEG and SPECT
Takayoshi Koike1, Yukitoshi Takahashi1, Asako Horino1, Naoko Koseki1, Tokito Yamaguti2, Taikan Oboshi1, Tomokazu Kimizu1, Shinsaku Yoshidomi1, Hideyuki Otani1, Hiroko Ikeda1, Katsumi Imai1, Hideo Shigematsu2, Yasuhiro Suzuki2, Yoshiro Murakami3, Yuushi Inoue1
1.Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan, 2.Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan, 3.National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan

P-220  A fatal case of acute encephalopathy with Dravet syndrome
Taku Sasaki1, Tetsuhiro Fukuyama1, Hideko Nakajima2, Shinichi Hirabayashi2, Noboru Fueki2
1.Department of Neuropediatrics, Nagano Children's Hospital, Nagano, Japan, 2.Department of Rehabilitation, Nagano Children's Hospital, Nagano, Japan

P-221  A case of Dravet syndrome with grid–pattern sensitive epilepsy
Shigeo Nagai, Tomoko Kirino, Yumi Fujihara, Shizuka Matuoka, Shoichi Endo (Shikoku Medical Center for Children and Adults)

P-222  The analysis of paroxysmal kinesigenic dyskinesia based on both the complication and PRRT2 mutation
Naohiro Kurotaki1, Hiroki Ozawa1, Kayoko Saitou1, Shinnji Saitho2, Kohihiro Yoshiura2, Nobuhisa Iwata2, Keiro Shirotani3, Hirokazu Shiraishi1
1.NAGASAKI UNIVERSITY HOSPITAL, Nagasaki, Japan, 2.Tokyo Women’s Medical University Institute of Genetics, Tokyo, Japan, 3.Deptartment of Neonatology and Pediatrics, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 4.Deptartment of HUMAN GENETICS, Atomic Bomb Disease Institute, Nagasaki University, Nagasaki, Japan, 5.Graduate School of Biomedical Sciences Nagasaki University Department of Genome Based Drug Discovery, Nagasaki, Japan

P-223  LEV was effective for partial seizure, but not for epileptic spasms in a patient with STXBP1 mutation
Go Shimomura1, Koutaro Yuge1, Shinichi Nagamitsu1, Yushiro Yamashita1, Hiroto Saitou2, Naomichi Matsumoto2
1.Department of Pediatrics, and child health Kurume University School of medicine Kurume, Japan, 2.Department of pediatrics and child health Kurume University School of medicine Kurume, Japan

P-224  Perioperative management of Dravet syndrome complicated with scoliosis
Kazuki Tsukamoto, Jun Mine, Kazuko Kishi, Seiji Yamaguchi (Department of Pediatrics, Shimane University School of Medicine, Shimane, Japan)

P-225  A cases of benign familial infantile epilepsy with PRRT2 gene abnormality
Yusei Baba3, Kazumi Tanaka3, Atsushi Ishii4, Yukiko Inara4, Shinichi Hirose3
1.Saiseikai Sendai Hospital, Kagoshima, Japan, 2.Fukuoka University Hospital, Fukuoka, Japan
The 58th Annual Meeting of the Japanese Society of Child Neurology

Epilepsy and convulsive diseases 5
Moderator: Shuichi Shimakawa (Department of Pediatrics, Osaka Medical College)

P-226 Efficacy and safety of MIDA FRASA® injection 0.1% for status epilepticus in children
  Rumiko Takayama, Masashi Ogasawara, Toshihide Watanabe (Hokkaido Medical Center for Child Health and Rehabilitation, Hokkaido, Japan)

P-227 LEV vs CBZ monotherapy as an initial treatment in patients with localization-related epilepsy
  Taku Nakagawa, Chie Awayama, Yoshinori Nanbu, Yuichi Takami (Department of Pediatrics, Japanese Red Cross Society Himeji Hospital, Himeji, Japan)

P-228 Efficacy of sulthiame in childhood epilepsy
  Aya Iwata, Hiroyuki Nigami (The Department of Pediatrics, Nishi Kobe Medical Center, Kobe, Japan)

P-229 Pleural effusion associated with long-term sodium valproate treatment
  Harumi Saijo, Takanori Ezoe, Kiyoko Kurata (Department of Pediatrics, Tokyo Metropolitan Higashi-yama Medical Center for Developmental/Multiple Disabilities, Tokyo, Japan)

P-230 The efficacy of pharmacotherapy with combined antiepileptic drugs in focal epilepsy
  Yoshihisa Higuchi, Nobusuke Kimura (Japan Red Cross Otsu Hospital)

P-231 The study of therapy termination and recurrence rate in cryptogenic focal epilepsy
  Chizuru Nishizato, Hiroe Ueno, Takumi Okada, Tomoyuki Shimazu, Hoseki Imamura (Kumamoto Saishunso National Hospital)

P-232 The association between immature platelet fraction and thrombocytopenia due to valproic acid
  Hirokazu Kurahashi1, Michihiko Takasu1, Akihisa Okumura2, Akiyoshi Takami2
  1. Department of Pediatrics, Aichi Medical University, Nagakute, Japan, 2. Department of Hematology, Aichi Medical University

P-233 Three cases of intractable epilepsy with effectiveness of phenobarbital additional administration
  Hirotaka Minema1, Naohide Shiroma1
  1. Neurodevelopmental Clinic Prop, Okinawa, Japan, 2. Nakagami Hospital, Okinawa, Japan

P-234 Analysis of the Immunoglobulin levels in pediatric patients with epilepsy taking antiepileptic drugs
  Shingo Oana1, Tomomi Urabe1, Mika Takeshita1, Natsumi Morishita1, Shinichiro Morichi1, Yu Ishida1, Gaku Yamanaka1, Tasuku Miyajima1,2, Hisashi Kawashima2
  1. Department of Pediatrics, Tokyo, Japan, 2. Department of Education for Childcare, Saitama, Japan

Poster Presentation
Poster Exhibition Hall  15:00-15:30

Epilepsy and convulsive diseases 6
Moderator: Tomohide Goto (Kanagawa Children's Medical Center)

P-235 Efficacy of particular therapy to atypical evolutions of idiopathic focal epilepsy in childhood
  Aiko Nishihara, Hirokazu Oguni, Yui Otani, Susumu Ito, Makoto Funatsuka, Satoru Nagata (The Department of Pediatrics of Tokyo Women's Medical University, Tokyo, Japan)

P-236 Treatment of juvenile myoclonic epilepsy and assessment of patient's background
  Miki Inutsuka (Department of Pediatrics, Sasebo Chuo Hospital, Sasebo, Japan)

P-237 About proper use of Levetiracetam monotherapy
  Yukio Sawaishi, Miki Yotono (Akita Prefectural Center on Development and Disability, Akita, Japan)

P-238 Prognostic factor of seizures in glucose transporter 1 deficiency syndrome
  Shin Nabatame1,2, Akito Watanabe1,2, Kanako Kishimoto1,2, Junpei Tanigawa1,2, Yoshiko Iwata1,2,3, Kouji Tominaga1,2,3, Kuriko Shimono1,2,3, Keiichi Ozono1,2,3
  1. Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan, 2. Epilepsy Center, Osaka University Hospital, Suita, Japan, 3. Department of Child Development, United Graduate School of Child Development, Osaka University, Suita, Japan

P-239 IgG subclass concentrations in epileptic patients treated with carbamazepine
  Takamasa Kishii1, Yuuji Fujii1,2, Yoshiyuki Kobayashi1,2, Nobutsune Ishikawa1,2
  1. Department of Pediatrics, KKR Hiroshima Memorial Hospital, Hiroshima, Japan, 2. Department of Pediatrics, Hiroshima University Hospital

P-240 The analysis of eruption related lamotrigine
  Kazuyuki Totsunuma, Kenji Watanabe (Kagoshima City Hospital, Pediatrics, Kagoshima, Japan)

P-241 Effectiveness of levetiracetam monotherapy in childhood epilepsy
  Atsuko Oba1,2, Shin-Ichiro Hamano2, Yasuyuki Wada1,3
  1. Department of Pediatrics, The Jikei University, 2. Division of Neurology, Saitama Children’s Medical Center, 3. Department of Pediatrics, The Jikei University Kashiwa Hospital
P-242  The alteration of plasma level of antiepileptic drugs on ketogenic diet therapy
Akito Watanabe1,2, Kanako Kishimoto1,2, Junpei Tanigawa1,3, Yoshiko Iwatani1,2,3, Koji Tominaga1,2,3, Kuriko Shimono1,2,3, Shin Nabatame1,2, Keiichi Ozono1,3
1. Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan, 2. United Graduate School of Child Development, Osaka University, Suita, Japan, 3. Epilepsy Center, Osaka University Hospital, Suita, Japan

P-245  Classical Glut–1 deficiency syndrome with good outcome who started ketogenic diet in early infancy
Keiko Yanagihara1, Tosiyuki Mano2, Keitaro Yamada1, Ryoko Hayashi2, Tae Ikeda1, Sadami Kimura1, Yukiko Mogami1, Yasuhiro Suzuki1

P-246  Withdrawn

Poster Presentation

Neurodevelopmental disorders 4
Moderator: Ayumi Seki (Faculty of Education, Hokkaido University)

P-245  Social adaptation of adults with PDD who had once visited our hospital – a questionnaire study –
Shinichi Hirabayashi1, Noboru Fueki2, Satoru Hirano3
1. Division of Neurology, Nagano Children’s Hospital, Azumino, Japan, 2. Department of Rehabilitation, Nagano Children’s Hospital, Azumino, Japan, 3. Nakagawanosato Rehabilitation Center, Saitama, Japan

P-246  The clinical characteristics of the children diagnosed as dyslexia who treated from infancy
Genrei Ohta1,2, Masao Katsumi1,2, Shin-Ichihiro Takiguchi3, Hiroshi Kometani1, Michio Hiratani1, Yusei Ohshima1
1. Department of Pediatrics, University of Fukui, Fukui, Japan, 2. Department of Child and Adolescent Psychological Medicine, University of Fukui, Fukui, Japan, 3. Department of Pediatrics, Houju Memorial Hospital, Ishikawa, Japan, 4. Hiratani child development clinic, Fukui, Japan

P-247  Assessment of sensory function in children with developmental disorder
Mio Nishimura, Yoko Matsumoto, Mariko Yagi, Yoko Kawasaki (Department of Pediatrics, Nikoniko House Medical and Welfare Center Kobe, Japan)

P-248  Five autism spectrum disorder cases with haploid at Syntaxin1A gene
Yu Hayashi1, Takefumi Kofuji2, Masao Tamaru3, Kimio Akagawa4
1. Department of pediatrics, Medical Center, Prefectural University of Hiroshima, Mihara, Japan, 2. Radioisotope Laboratory, Kyorin University School of Medicine, Tokyo, Japan, 3. Department of Nursing, Faculty of Health Sciences, Hiroshima Cosmopolitan University, 4. Cell Physiology, Kyorin University School of Medicine, Tokyo, Japan

P-249  A case of autism spectrum disorder with self-injury improved by exercise rehabilitation
Ayako Tsumita1,2, Tomoyuki Nakazawa1, Kaoru Obinata1, Hiroshi Ozawa2
1. Department of Pediatrics, Juntendo University Urayasu Hospital, Chiba, Japan, 2. Departments of Pediatrics, Shimada Ryoiku Center Hachioji, Tokyo, Japan

P-250  Magic therapy is effective for a case refusing to go to school
Hiroshi Ozawa, Yoko Kishimoto, Yoshiko Nomura, Ayako Tsumida, Yuri Ozawa, Yukiko Nakamura, Kaoru Amemiya (Shimada Ryoiku Center Hachioji, Tokyo, Japan)

P-251  A boy with autism spectrum disorder having ring 22 chromosome and regression from early childhood
Makio Oka1, Yoshinori Kobayashi1, Mari Akiyama1, Teruko Morooka1, Kaoru Hanafusa1, Tatsuya Ogino2, Harumi Yoshinaga1, Katsuhiko Kobayashi1
1. Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Science, Okayama, Japan, 2. Department of Child Studies, Faculty of Child Studies, Chukokugakuen University, Okayama, Japan, 3. Department of Pediatrics, Kobe City Medical Center General Hospital, Kobe, Japan

P-252  A retrospective 20–year study of patients with neurodevelopmental disorders
Akiko Nagae, Masao KUMODE, Kumiko Yamashita, Nozomi Oda, Yasuyuki Fujita, Kiyoshi Takaya (Biwako Gakuen Kusatsu Medical and Welfare Center for Children and Persons with Severe Motor and Intellectual Disabilities, Shiga, Japan)

P-253  Utility of metaphor and sarcasm scenario test in developmental disorder cases with violent behavior
Tsunehiko Kurokami, Tatsuya Koeda, Makiko Okuyama (Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan)

P-254  Study of sleep spindle in pre-school children with developmental disorders
Motoyuki Minamitani1,2, Shin-Ichihiro Hamano1,2, Manabu Tanaka1, Ryuki Matsuura1,2, Yuko Hirata1,2, Satoru Ikemoto1,2, Erika Hiwatari1, Reiko Koichihiro1
1. Saitama Children Medical Center, Saitama, Japan, 2. The Jikei University of Medicine, Tokyo, Japan
Poster Presentation

Neurodevelopmental disorders 5
Moderator: Katsuo Sugita (Division of Child Health, Faculty of Education, Chiba University)

P-255 Interim report of study about frequency of motor–variation in general toddlers
Taishi Miyachi1, Atsuko Nakagawa2, Satoshi Sumi3, Masayuki Imaeda4, Shinji Saito4, Michihiro Kamijima4
1.Nagoya West District Care Center for Disabled Children, Nagoya, Japan, 2.Nagoya City University of Humanities and Social sciences, Nagoya, Japan, 3.Kanbayashi Memorial Hospital, Ichinomiya, Japan, 4.Nagoya North District Care Center for Disabled Children, Nagoya, Japan, 5.Department of Neonatology and Pediatrics, Nagoya City University, Nagoya, Japan, 6.Department of Occupational and Environmental Health, Nagoya City University, Nagoya, Japan

P-256 Developmental of Japanese vocabulary of each cognitive domain in children with Williams syndrome
Miho Nakamura1, Yukako Muramatsu1,2, Ayako Umemura3, Seiji Mizuno4
1.Department of Functioning Science, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Aichi, Japan, 2.Department of Pediatrics, Nagoya University, Nagoya, Japan, 3.Department of Pediatric Neurology, Central Hospital, Aichi Human Service Center, Kasugai, Aichi, Japan, 4.Department of Pediatrics, Central Hospital, Aichi Human Service Center, Kasugai, Aichi, Japan

P-257 Relationship between academic achievement and cognitive function 4 – visual cognition with WAVES
Tomohito Okumura1, Akihiro Kawasaki2, Tomoko Miura1,2, Makoto Nakashita4, Eiji Wakamiya5, Mekumi Mizuta6, Naoko Kurimoto1, Takashi Takeshita1, Hiroshi Tanami5
1.Osaka Medical College, LD Center, Takatsuki, Japan, 2.Tohoku University Graduate School of Education, Sendai, Japan, 3.Sakai Seikeikai Hospital, LD Center, Sakai, Japan, 4.Kansui University, Graduate School of Psychology, Suita, Japan, 5.Department of Nursing, Faculty of Life Science, Aino University, Ibaraki, Japan, 6.Osaka Medical College, Department of Pediatrics, Takatsuki, Japan

P-258 Developmental profile of the children with periventricular leukomalacia
Kenji Ikeda1, Hiroshi Ozawa2, Usuko Ootaki1, Keiko Matsuda1, Kazuko Akagi1, Kayoko Takahashi1, Akiko Kamiishi1, Kiyoushi Arimoto1, Satoshi Kimiya1
1.Shimada rehabilitation center, Tokyo, Japan, 2.Shimada rehabilitation center Hachioji, Tokyo, Japan

P-259 A research on actual situation of play of primary schoolchildren with developmental disorder
Nobuko Sugirai1, Hiroshi Ozawa2, Kaoru Amemiya1, Yuri Otsawa2, Youko Kishimoto2, Ayako Tsumita2, Yukiko Nakamura2, Yoshiko Nomura1, Satoshi Kimiya3
1.Shimada Ryuoku Center Hachioji, Tokyo, Japan, 2.Shimada Ryuoku Center Hachioji, Tokyo, Japan, 3.Shimada Ryuoku Center, Tokyo, Japan

P-260 Evaluations of development of spontaneous superficial parenchymal and leptomeningeal hemorrhage
Yoshitaka Mizobe1, Yu Tsuyusaki1, Jyun Shibasaki2, Takaya Iida3, Kouji Tanoue1, Kiyoshi Matsui4, Noriko Aida4, Yoshihisa Oishi4, Seijirou Aso5
1.Division of Neurology, Kanagawa Children’s Medical Center, Kanagawa, Japan, 2.Division of Neonatology, Kanagawa Children’s Medical Center, Kanagawa, Japan, 3.Division of General Pediatrics, Kanagawa Children’s Medical Center, Kanagawa, Japan, 4.Division of Radiology, Kanagawa Children’s Medical Center, Kanagawa, Japan, 5.Japanese Red Cross Medical Center, Tokyo, Japan

P-261 Difference of assessment between parents and children with ASD, ADHD using QCD
Yusaku Endo, Teruhiko Suzuki, Kouichi Hirano (Department of Pediatrics (Pediatric Neurology), Hamamatsu City Welfare and Medical Center for Development, Hamamatsu, Japan)

P-262 Developmental prediction for 1–month–old infants with poor fixation and tracking eye movement
Shohei Watanabe (Saiseikai Imabari Hospital, Ehime, Japan / Ehime Prefectural Imabari Hospital, Ehime, Japan)

P-263 Therapy and support for 5 infants with eating disorders
Yoko Tonomori1,2, Hiroyuki Fujita1, Seiko Suzuki1, Yoshiyasu Kono1
1.The Department of Pediatrics, Kitakyushu Rehabilitation Center for children with disabilities, Kitakyushu, Japan, 2.The Department of Pediatrics, Fukuoka university, Fukuoka, Japan

P-264 Utility of physical test for the first–visit developmental disorder outpatients at our clinic
Kanako Nakano (Pediatrics, Rokko island Kohnan Hospital, Kobe, Hyogo, Japan)

Poster Exhibition Hall

Mental disorder and behavioral disorder
Moderator: Junichi Furusho (College of Education, human studies and psychology Aoyamagakuin University)

P-265 Polysomnographic analysis of a 15–year–old girl with a long duration abnormal sleep related behavior
Kumi Kato1, Nishiura1, Chika Hiraishi2, Masayuki Shimohira2
1.Ota Memorial Sleep Center, Kanagawa, Japan, 2.Department of Pediatrics, Kawaguchi Municipal Medical Center, Saitama, Japan

P-266 Changes in CBCL score as a result of psychosocial intervention for parents
Miyuki Ushida (Department of Pediatric Psychosomatic Medicine, National Hospital Organization Shikoku Medical Center for Children and Adults, Japan)

Poster Exhibition Hall

15:00-15:30
P-267  Personality in patients with Gorlin syndrome
Hideki Uchikawa1,2, Katsunori Fujii3, Tomoyuki Fukuhara2, Hajime Ikehara2, Hiromi Mizuochi1,2, Tadashi Shiohama2, Naoki Shimojo2
1. Department of Pediatrics, Eastern Chiba Medical Center, Togane, Japan, 2. Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan

P-268  Non-pharmacological intervention for self-injurious behavior in mentally handicapped populations
Ikumi Kimura, Nagahisa Takahashi, Junko Ohinata, Mika Nagase, Akira Yoneyama, Eiji Kitazumi (The National Rehabilitation Center for Children with Disabilities)

P-269  ADHD predominantly inattentive type in mild to moderate intellectual disabled children
Hiroto Akaie, Mina Kono, Esuke Kondo, Atsushi Kato (The Department of Pediatrics, Kawasaki Medical School)

P-270  Features of WISC-IV profile in patients with anorexia nervosa
Ryoko Otani1, Rie Kanaya1, Akari Arakawa2, Takeshi Inoue2, Keiichi Shimamura2, Mami Tazoe2,3, Ryosichi Sakuta1
1. Center for Child Development and Psychosomatic Medicine, Dokkyo Medical University Koshigaya Hospital, Saitama, Japan, 2. Pediatrics, Dokkyo Medical University Koshigaya Hospital, Saitama, Japan, 3. Japan Lutheran College, Tokyo, Japan

P-271  A study in the correlation between Orxin level and effectiveness of modafinil in narcolepsy
Kaori Sassa, Yuichi Abe, Hideo Yamanouchi (Saitama Medical University Hospital)

P-272  The efficacy of Yokukansan for the children of autism spectrum disorder
Shigeru Hanaoka (Matudo Municipal Center for Child Developemen, Matsudo City, Japan)

Poster Presentation

Encephalitis and encephalopathy 1
Moderator: Ryutarou Kira (Department of Pediatric Neurology, Fukuoka Children's Hospital)

P-273  Long-term outcome of sequelae in childhood acute encephalopathy: a retrospective study of 70 cases
Yusuke Takezawa1, Mai Anzai1, Wakaba Endo1, Takehiko Inui2, Ikuko Shirai1,2, Kazuhiro Hagiroya1
1. Department of Pediatric Neurology, Tenkuo Rehabilitation Center for Children, Sendai, Japan, 2. Department of Pediatric Neurology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan

P-274  The EEG is predictive indicator for prognosis of the patients with return of spontaneous
Jun Matsui, Noriko Nishikura, Tatsuyuki Sekoda, Seichirou Yoh, Yoshihiro Takeuchi (Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)

P-275  Cerebellar encephalitis without neurological symptoms
Chiie Awayama1, Yoshinori Nambu1, Taku Nakagawa1, Yuichi Takahashi1, Yukiosh Takahashi2
1. Himeji Red Cross Hospital, 2. Shizuoka Institute of Epilepsy and Neurological Disorders

P-276  Does MERS (mild encephalitis/encephalopathy with a reversible splenial lesion) need a treatment?
Yoshinori Nambu1, Chie Awayama1, Taku Nakagawa1, Yuichi Takahashi1, Yukiosh Takahashi2
1. Japanese Red Cross Society Himeji Hospital, 2. Shizuoka Institute of Epilepsy and Neurological Disorders

P-277  Findings in acute encephalopathy with biphasic seizures and late reduced diffusion
Atsuko Ohno1, Akihisa Okumura2, Tatsuya Fukasawa3, Takeshi Suzuki2, Yuji Nakamura4, Misa Miyake4, Tetsuo Kubota1, Kenji Tsuji6, Naoki Ando7, Shinni Suito7, Juny Numtume1
1. Department of Pediatrics, Nagoya University, Aichi, Japan, 2. Department of Pediatrics, Aichi Medical University, Aichi, Japan, 3. Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan, 4. Department of Pediatrics, Toyohashi Municipal Hospital, Aichi, Japan, 5. Department of Pediatrics, Fujita Health University School of Medicine, Aichi, Japan, 6. Department of Pediatrics, Okazaki City Hospital, Aichi, Japan, 7. Department of Pediatrics and Neonatology, Nagoya City University, Graduate School of Medical Sciences, Aichi, Japan

P-278  A case of ADEM emerged with status epilepticus and transient subcortical lesion
Kenji Watanabe1, Kazuyuki Yotsumata1, Hiroki Nagata1, Shinsuke Maruyama2
1. Kagoshima City Hospital, 2. Kagoshima University Hospital Pediatrics

P-279  A case of AEDS occurred in a patient with CCHS
Akari Tago, Kyoko Yokoi, Satoru Kobayashi (Department of Pediatrics, Nagoya City West Medical Center, Nagoya, Japan)

P-280  A retrospective study on the prognoses of AEDS
Sooyoung Lee1,2, Masafumi Sanejuki3, Michiko Torio2, Yuuko Ichimiy2, Hiroyuki Torisu2, Yoshihito Ishizaki2, Yasunari Sakai2, Toshiro Harada1,2
1. Fukuoka Children's Hospital, 2. Fukuoka, Japan, 3. Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

P-281  Cerebrospinal fluid cytokine in clinically mild encephalopathy with a reversible splenial lesion
Takuya Yokota1, Sotaro Kana1, Hitrotaka Motoi1, Tohru Okanish1, Shumpei Yokota2, Hideo Enoki1
1. Seirei Hamamatsu General Hospital, Hamamatsu, Japan, 2. Yokohama City University Graduate School of Medicine, Yokohama, Japan

P-282  Three cases of AEDS performing aEEG monitoring clustered seizures
Satoru Kobayashi, Akari Tago, Kyoko Yokoi (Nagoya City West Medical Center)

P-283  THR was partially effective in the recovery of speech and motor impairment after HHV6 encephalopathy
Takuya Yokota1, Sozo Okano1, Katsumi Hayakawa2
1. Kyoto City Hospital, Kyoto, Japan, 2. Iwate Prefectural Kamaishi Hospital, Iwate, Japan
P-284 Neonatal enterovirus encephalitis presented with disseminated lesions in subcortical white matter
Ryoko Nakamura, Masaru Matsukura, Pin Fee Chong, Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

P-285 EEG findings of patients with Kawasaki disease
Shinji Itamura, Kazunori Ogawa, Mieko Takenaka, Kentarou Kuwabara (Hiroshima city hospital, pediatri neurology, Japan)

P-286 Establishment of knock out/down microglial cell line using CRISPR/Cas9 system
Suzuki Tomonori1,2, Ueno Taro3, Hayashi Masaharu1, Sakuma Hiroshi2
1.Developmental Neuroimmunology Project, Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, 2.Department of Pediatrics, Tokyo Medical Dental University, Tokyo, Japan, 3.Learning and Memory Project, Department of Dementia and Higher Brain Function, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

P-287 Recent acute encephalopathy cases at Osaka Red Cross Hospital with handicapped people's institution
Takuto Naito1, Haruko Sakamoto1, Yujiro Tajiri1, Naoko Fusayasus2, Yoshihiko Takano1, Tsukasa Tanaka3, Ryo Sugita1, Kaori Anzai1, Mai Takegawa1, Anryu Nomura1, Shinya Hida1, Takehiko Okuno4, Misao Yoshii1, Shinichi Sumimoto1
1.Pediatric Department, Osaka Red Cross Hospital, Osaka, Japan, 2.Pediatric Department, Sagamihara National Hospital, 3.Neurology Department, Hyogo Prefectural Children's Hospital, Hyogo, Japan, 4.Otemae Center for Rehabilitation

P-288 Examination of the drug eruption by phenobarbital maintenance therapy for status epilepticus
Mitsui Moriya, Yu Aihara, Rikio Suzuki, Tar0 Kitamura, Toshiyuki Nishio, Masaru Takayanagi, Toshihiro Ohura
(Pediatrics, Sendai City Hospital, Sendai, Japan)

P-289 A case of PRES with Burkitt lymphoma treated by rituximab, severe varicella zoster infection
Kumi Omagari, Tatsuharu Sato, Kouhei Haraguchi, Yoshiaki Watanabe, Nobuhiro Ito, Yasutomo Funakoshi, Masahiko Okada (The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)

P-290 Case series of fatal acute encephalopathy
Kazumi Tomioka1, Hiroaki Nagase1,2, Yuusuke Ishida2, Tsukasa Tanaka2, Masahiro Nishiyama1,2, Kyoko Fujita2, Daisaku Toyoshima2, Azusa Maruyama2, Hiroki Takeda2, Yoshiyuki Uetani2, Masaaki Matsumoto1, Ai Unzaki1, Hiroyuki Awano1, Satoshi Takada4, Kazumoto Iijima1
1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Neurology, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan, 3.Department of emergency medicine, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan, 4.Kobe University Graduate School of Health Science, Kobe, Japan

P-291 A case of acute encephalitis associated with parvovirus B19 infection
Masaru Matsukura, Toru Imag, Ryouko Nakamura, Pin Fee Chong, Ryutaro Kira (Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

P-292 A case of rotavirus-related acute encephalopathy accompanied with endothelial cell dysfunction
Daigo Kato1, Satoshi Inoue1, Noriko Fujii1, Tadaki Oomae1, Toshio Osamura1, Hisashi Kawashima2
1.Department of Pediatrics, Japanese Red Cross Society Kyoto Daini Hospital, Kyoto, Japan, 2.Department of Pediatrics, Tokyo Medical University, Tokyo, Japan

P-293 Examination of the factor about the long-term neurological outcome of herpes encephalitis
Satori Hirai, Hiroshi Arat, Yuukiro Kitai, Kayo Oomura, Kaeko Ogura (Department of Pediatric Neurology, Morinomiya hospital, Osaka, Japan)

P-294 Four cases of mumps meningoencephalitis
Yuji Sugawara1, Tsunehiko Kurokami1,2, Tomonori Suzuki1,3, Takeshi Hasegawa1
1.Department of Pediatrics, Soka Municipal Hospital, Soka, Japan, 2.Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan, 3.Department of Brain Development and Neural Regeneration, Developmental Neuroimmunology Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

P-295 Two cases of nonherpetic acute limbic encephalitis
Anzu Noda1, Tsutsumi Toyofuku1, Yuki Koshino1, Yuichi Abe2, Yukitoshi Takahashi3
1.Department of Pediatrics, Saitama citizens medical center, Saitama, Japan, 2.Department of Pediatrics, Saitama medical university, Saitama, Japan, 3.Department of Pediatrics, National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Sizuoka, Japan
P-296  Evaluation of hypothalamic–pituitary function in encephalopathy with nonthyroidal illness
Mutsumi Morishita1, Ryuki Matsuura1, Erika Hiyawati1, Satoshi Ikemoto1, Yuko Hirata1, Manabu Tanaka2, Motoyuki Minamitani3, Shinichiro Hamano1
1.Division of Neurology,Saitama Children's Medical Center,Saitama,Japan, 2.Division of Child Health and Human Development,Saitama Children's Medical Center,Saitama,Japan

P-297  A case of pneumatosis cystoides intestinalis secondary to steroid therapy for limbic encephalitis
Tomoko Tando1, Yusuke Goto1, Kanji Sugita2, Masao Aihara3
1.Yamanashi prefectural central hospital, 2.Yamanashi,Japan, 3.Yamanashi,Japan

P-298  Siblings with limbic encephalitis
Sho Narahara, Yusuke Aoki, Motomasa Suzuki, Kazuya Itomi (The Department of Neurology, Aichi Childrens's Health and Medical Center, Aichi, Japan)

P-299  Three cases with acute encephalitis with refractory repetitive partial seizures
Hiromi Suzuki1, Yoju Ikuta2, Asami Irou3, Takayuki Mori1, Yoriko Matsui4, Naoki Shimizu5, Sahoko Miyama1
1.Department of Neurology, Tokyo Metropolitan Children Medical Center,Tokyo,Japan, 2.Department of Pediatrics,Showa General Hospital,Tokyo,Japan, 3.Department of Critical care medicine,Tokyo Metropolitan Children Medical Center,Tokyo,Japan, 4.Department of Pediatrics,Keio University School of Medicine,Tokyo,Japan

P-300  Chronic phase rehabilitation for children with sequelae of acute encephalopathy
Manabu Yoshihashi, Mana Kurihara, Manamichi Ariga, Takeya Awashima, Toshitaka Kohagizawa (The department of pediatrics, Kanagawa rehabilitation center, Kanagawa, Japan)

P-301  Epidemiological and clinical analysis of cases of acute encephalopathy in our medical care zone
Yusuke Okada1, Hironori Matsufuji2, Madoka Kajimoto2, Hiroko Narumi1, Fumiko Okazaki1,2, Noriko Hotta1, Satoko Ito1, Hiroshi Tateshii1, Kyoko Fujita1, Masashi Uchida1
1.Department of Pediatrics, Japan Community Health care Organization Tokuyama Central Hospital, Yamaguchi, Japan, 2.Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan

P-302  A case of acute disseminated encephalomyelitis presenting with blindness, without optic neuritis
Hiromi Nagata1, Kenji Watanabe1, Kazuyuki Yotsumata1, Shinsuke Maruyama2
1.Kagoshima City Hospital, Kagoshima, Japan, 2.Kagoshima University, Kagoshima, Japan

P-303  Time–dependent change of the brain blood flow in 2 cases of non–herpetic limbic encephalitis
Taiju Hayashi1, Yoshifumi Miyagi1, Hitoteshi Ishigaki1, Yusuke Itoh1, Tomoko Matshubayashi1, Tokiko Fukuda1, Tomohiro Nishio2, Akira Kubota2, Hiroki Uchiyama2
1.Department of Pediatrics, Hamamatsu University School of Medicine,Hamamatsu,Japan, 2.Department of Pediatrics, Chutoen General Medical Center,Kakegawa,Japan, 3.Department of Pediatrics, Fujinomiya City General Hospital,Fujinomiya,Japan

P-304  A case of hypoplastic left heart syndrome with hemiconvulsion hemiplegia epilepsy syndrome
Takuzo Marukane1, Shio Morita1, Wataru Tamaki1, Masaaki Yamamoto2, Taku Oishi1, Takatoshi Hosokawa1,2, Mikiya Fujieda1
1.Department of Pediatrics, Kochi Medical School, Kochi University, Kochi, Japan., 2.Pediatric Neurology , Hosogi hospital, Kochi, Japan.

Poster Presentation
Poster Exhibition Hall  15:00-15:30

Infection and immunity 1
Moderator: Yuji Inaba (Department of Pediatrics,Shinshu Univ.School of Medicine)

P-305  A case of acute flaccid paralysis which is partial effectiveness of immunoglobulin therapy
Mariko Kasi1, Sayaka Ohtat1, Yoko Mizuno1, Konomi Shimoda1, Atsushi Sato1, Akira Oka1, Masashi Mizuguchi2
1.Department of Pediatrics, The University of Tokyo Hospital, 2.School of Integrated Health Sciences, Faculty of Medicine, The University of Tokyo

P-306  Three cases of neurological complication associated with enterovirus around the same time
Takayoshi Kawabata (Ishikawa Prefectural Central Hospital , Ishikawa, Japan)

P-307  Three cases of acute flaccid myelitis occurred in September, 2015
Toru Imagi, Ryouko Nakamura, Masaru Matsukura, Pin Fee Chong, Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

P-308  A case of 1 year old boy with acute flaccid paralysis
Sosuke Yoshikawa1, Chizuru Ohba2, Mitsuhiro Kashiwagi2, Takuya Tanabe3, Miho Fukui1, Shuichi Shimakawa4, Hiroshi Tamai4
1.Department of Pediatrics, Osaka Rosai Hospital, Osaka, Japan, 2.Department of Pediatrics, Hirakata City Hospital, Osaka, Japan, 3.Tanabe Pediatric Neurology  Internal Medicine, 4.Department of Pediatrics, Osaka Medical College, Osaka, Japan

P-309  Two cases of acute flaccid paralysis
Tomohide Tanimura1, Megumi Suyama1, Tomonori Goto1, Kanemasa Maki1, Kyoko Ban1, Aya Yarita2, Mamiko Tachikawa3, Daisuke Ieda4, Ikumi Hori5, Yutaka Negishi1, Ayako Hattori1, Naoko Ando1, Shinji Saitoh3
1.Yokkaichi Municipal Hospital, Department of Pediatrics, Mie, Japan, 2.Yokkaichi Municipal Hospital,Department of Neurology, Mie, Japan, 3.Nagoya City University, Graduate school of Medical Sciences, Department of Pediatrics and Neonatology, Aichi, Japan
The 58th Annual Meeting of the Japanese Society of Child Neurology

**Poster Presentation**

**Infection and immunity 2**

**Moderator:** Hiroki Torisu (Section of Pediatrics, Department of Medicine, Fukuoka Dental College)

P-310  Three cases of acute flaccid paralysis  
Kouhei Haraguchi, Tatsuharu Sato, Kaoru Moriyama, Daishi Inoue, Yoshiaki Watanabe, Hiroyuki Moriuchi (Department of Pediatrics, University of Nagasaki, Nagasaki, Japan)

P-311  A case of acute flaccid paralysis after asthma attack  
Harukata Sumi, Tetsuji Nagamoto, Minako Ono, Yosinori Murasima, Ryuusuke Satou, Aki Iwaoka, Youko Santou, Kouko Mouri, Ken Mouri, Tomoyuki Miyamoto, Kazuo Fujiwara  
1. Yokosuka General Hospital, Uwamachi pediatrics, Yokosuka, Japan, 2. Department of Neurology, Tohoku University School of Medicine, Sendai, Japan

P-312  A case of the Hopkins syndrome that may be caused by Enterovirus  
Taira Toki, Toshiyuki Iwasaki, Tomoya Ishida, Toshiyuki Shirai, Masahiro Ishii  
1. Department of Pediatrics, Kitasato University, Sagamihara, Japan, 2. Sagamidai Hospital, Zama, Japan

P-313  A case of Polio-like acute flaccid paralysis with Echovirus type 3 in stool  
Ayako Yamamoto, Yositaka Oyama, Yuya Saitou, Soa Kobayashi, Mayu Ishibashi, Michihiro Hatano, Mari Iwamoto  
Saiseikai Yokohamashi Toku Hospital, Yokohama City, Kanagawa, Japan

P-314  A case of acute flaccid paralysis  
Chizu Ohba, Mitsuru Kashiwagi, Motoko Ogino, Takuya Tanabe, Shuichi Shimakawa, Hiroshi Tamai  
1. Hirakata City Hospital, 2. Osaka Medical College Hospital, Osaka, Japan, 3. Tenable Children Clinic, Osaka, Japan

**Poster Exhibition Hall**  
15:00-15:30

**Infection and immunity 2**

P-315  Analysis of anti-phospholipid antibodies in pediatric patients with cerebral infarction  
Seigo Kurematsu, Hiroaki Miyahara, Hiroshi Yamada (Department of Pediatrics, Oita University Faculty of Medicine, Oita, Japan)

P-316  Clinical study of pediatric bacterial meningitis over one month old during 22 years  
Hiroshi Shiraga (Department of Pediatrics, Okayama Medical Center)

P-317  A case of neuromyelitis optica associated with anti-MOG antibody  
Kohei Takashima, Jun Matsui, Noriko Nishikura, Tatsuyuki Sokoda, Tomoyuki Takano, Yoshihiro Takauchi (Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)

P-318  A case of anti-NMDA receptor encephalitis secondary to herpes simplex encephalitis  
Takanori Omae, Kyouyou Ono, Yoshiaki Saitou, Yoshihiro Maegaeki, Yukitoshi Takahashi  
1. Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University, Yonago, Japan, 2. National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorder, Shizuoka, Japan

P-319  A 10-year-old girl case of acute flaccid paralysis that Enterovirus D68 infection is suspected  
Genrei Ohta, Masao Kawatani, Hiroshi Kometani, Kazuhisa Nishimori, Keiichi Sugihara, Kent Aymada, Yusei Ohshima  
1. Department of Pediatrics, University of Fukui, Fukui, Japan, 2. Houju Memorial Hospital, 3. Municipal Tsuruga Hospital

P-320  A case of infant botulism, rapid worsening and improvement of respiratory failure  
Kenta Ikeda, Hiroaki Ohbayashi, Yuriko Yamahita, Megumi Shiota, Yosukata Miyoshi, Hajime Mihira, Masato Mori, Tomohiko Turu (Department of Pediatrics, Matsudo City Hospital, Chiba, Japan)

P-321  A case of optic neuritis with MOG antibodies treated with intravenous immunoglobulin therapy  
Yuma Noto, Fumio Hayakawa, Toru Kato, Takeshi Tsuji, Ryusuke Suzui (Department of Pediatrics, Okzaki City Hospital, Okazaki, Aichi, Japan)

P-322  A case of acute flaccid myelitis with enterovirus D68  
Etushi Toyofuku, Yuki Koshino, Anzu Noda, Yuichi Abe  
1. Pediatrics, Saitama Citizens Medical Center, Saitama, Japan, 2. Pediaestiatrics, Saitama Medical University Hospital, Saitama, Japan

P-323  Two-year-old boy with flaccid myelitis and Guillain-Barré syndrome with anti-Gal-C antibody  
Michiaki Nagura, Eiko Takada, Hideyo Yamanouchi  
1. Saitama Medical Center, Kawagoe, Japan, 2. Saitama Medical College, Moroyama-cho, Japan

P-324  Clinical characteristics of 6 patients with status epilepticus associated with HFMD  
Kiyotaka Zaha, Kenji Uematu, Yasuko Nakamura, Hiroshi Matsumoto (Department of Pediatrics, National Defense Medical College, Saitama, Japan)

**Poster Exhibition Hall**  
15:00-15:30

**Infection and immunity 3**

**Moderator:** Kazuhiro Muramatsu (Dept. Pediatrics, Gunma University Graduate School of Medicine)

P-325  Plasma exchange and steroid for MOG antibody-positive neuromyelitis optica spectrum disorders  
Yoshihiro Watanabe, Hitaki Kabu, Yu Fujiiwara, Saoko Takeshita, Ichiro Nakashima  
1. Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan, 2. Department of Neurology, Tohoku University School of Medicine, Sendai, Japan
P-326  Reversible sleep–wake cycle disorder in a 7-year–old boy with myasthenia gravis
Yuri Sakaguchi1, Toshiki Takenouchi1,2, 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

P-327  A case of motor aphasia and hemiplegia associated with Parry–Romberg syndrome
Junichi Yokoyama1, Toshiyuki Shinokura2, Kazuyuki Nakamura1, Toshiyuki Kimura2, Mitsuhiro Katou1,2, Tetsuo Mitsui1
1.Department of Pediatrics, Yamagata University Faculty of Medicine, Yamagata city, Japan, 2. Pediatrics Department of Nihonkai general hospital, Sakata city, Japan. 3.Pediatrics department of Shouwa University, Tokyo, Japan

P-328  Neuromyelitis optica spectrum disorder in a patient in complete remission of rhabdomyosarcoma
Takayuki Mori1, Itaru Hayakawa1, Ayaka Koide1, Asami Itou1, Hiromi Suzuki1, Sunao Tomita1, Sahoko Miyama1, Toshiyuki Takahashi1,2
1.Department of Neurology, Tokyo Metropolitan Children’s Medical center, Tokyo, Japan, 2.Department of Neurology, Tohoku University school of medicine, Miyagi, Japan, 3. Department of Neurology, Yonezawa national Hospital, Yamagata, Japan

P-329  Potter’s puffy tumor caused by staphylococcal skull osteomyelitis occurred for severely disabled child
Hideki Hoshino, Masakazu Mimaki (Department of Pediatrics, Teikyo University, School of medicine, Tokyo, Japan)

P-330  Transient presence of anti MOG antibodies in a patient with recurrent ADEM
Kei Wakabayashi1, Mari Kuwajima1, Akihiko Miyahuchi1, Toshiyuki Takahashi2, Ichiro Nakashima2, Hitoshi Osaka1, Takanori Yamagata1
1. The Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 2. The Department of Neurology, Tohoku University School of Medicine, Miyagi, Japan

P-331  A case of anti-MOG antibody positive clinically isolated syndrome
Atsuko Waku1, Kanshi Minamitani1, Toshiyuki Takahashi1,2, Kimihiko Kaneko2, Setsuo Ota1
1. Teikyo University Chiba Medical Center Hospital, Department of Pediatrics, Ichihara, Japan, 2. Tohoku University School of Medicine, Department of Neurology, 3. Yonezawa National Hospital, Department of Neurology, Yonezawa, Japan

P-332  Four cases of acute focal bacterial nephritis with status epilepticus and consciousness disturbance
Sora Okita, Atuko Kanagawa, Tomosi Nakajiri, Atusi Nisyama, Yosinobu Oyazato (The Department of Pediatrics, Kakogawa West City Hospital)

P-333  A case of gait disturbance and articulation disorders caused by GM3—positive acute cerebellar ataxia
Noboru Yoshida1, Shintaro Yamashita1, Tomoyuki Nakazawa2, Shinichi Niijima1, Toshiaki Shimizu1
1. Department of Pediatrics, Juntendo Nerima Hospital, 2. Toshima Hospital, 3. Department of Pediatrics, Juntendo Nerima Hospital

Poster Presentation

Poster Exhibition Hall 15:00-15:30

Genetics 1
Moderator: Kenji Kurosawa (Division of Medical Genetics, Kanagawa Children’s Medical Center)

P-334  Characteristics of CDKL5 mutation identified in patients with epileptic encephalopathy
Toshiyuki Yamamoto1, Keiko Shimojima1, Nobusuke Kimura2, Yukiko Mogami2, Daisuke Usui2, Rumiko Takayama2, Hiroko Ikeda2, Katsumi Imai2
1. Tokyo Women’s Medical University Institute for Integrated Medical Sciences, Tokyo, Japan, 2. National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan

P-335  Influence of ABCB1 polymorphisms with drug–responsiveness to Japanese children with epilepsy
Hirota Motot1,2, Masakatsu Yanagimachi2, Hitaki Kaba2, Yu Fujiwara2, Yoshihiro Watanabe2, Saoko Takeshita2, Toru Okanishi1
1. Department of Child Neurology, Seirei Hamamatsu General Hospital, Shizuoka, Japan, 2. The Department of Pediatrics, Yokohama City University, Yokohama, Japan

P-336  Genetic diagnosis of Duchenne/Becker muscular dystrophy using next–generation sequencing
Mariko Okubo1, Narihito Minami1,2, Kanako Gotou1,2, Satoru Noguchi1, Satomi Mitsushashi1,2, Ichizou Nishino1,2
1. Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan, 2. Department of Genome Medicine Development, Medical Genome Center, NCNP, Tokyo, Japan

P-337  Refractory epileptic apnea with hypochondroplasia : case report of a 2-year–old girl
Tetsuya Okazaki1,2, Riyo Ueda1, Youko Nishimura1, Kyouyu Oono1, Akiko Tamasa1, Naoko Nakagawa2,3, Noriko Kasagi2, Kaori Adachi1, Masachika Kai1, Masayuki SASAKI1, Eiji Namba2,4, Yoshiaki Saito1, Yoshihiro Maegaki1
1. Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University, Yonago, Japan, 2. Division of Clinical Genetics, Tottori University Hospital, Yonago, Japan, 3. Center for Promoting Next-Generation Highly Advanced Medicine Tottori University Hospital, Yonago, Japan, 4. Division of Functional Genomics, Research Center for Bioscience and Technology, Tottori University, Yonago, Japan, 5. Division of Technical Department, Tottori University, Yonago, Japan, 6. Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Yonago, Japan
P-338  **PIK3C3** is responsible gene for epidermal nevus, cataract and learning disorder
Ayumi Matsumoto1, Yutaka Inaguma2, Daisuke Usui3, Masahide Goto1, F. Eriko Jimbo1, Hitomi Tabata2, Akikiho Maeda4, Kiyoshi Kikkawa3, Y. Mariko Momo1, Hitoshi Osaka1, Koh-Ichi Nagata2, Takanori Yamagata1
1. Department of Pediatrics, Chichi medical university, Tochigi, Japan, 2. Department of Molecular Neurobiology, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Japan, 3. Department of Pediatrics, Kochi Health Sciences Center, Kochi, Japan, 4. Department of Pediatrics, Hata Kenmin Hospital, Kochi, Japan

P-339  TSC mutation analysis of Japanese patients with tuberous sclerosis complex
Yo Niida (Center for Medical Genetics, Kanazawa Medical University Hospital, Ishikawa, Japan)

P-340  De novo HDAC8 mutation causes Rett syndrome–like phenotype in a female patient
Tomoko Saikusa1,2, Gou Shimomura2, Koutarou Yuge2, Munetsugu Harah2, Shinichirou Nagamitsu2, Yushirou Yamashita2, Toyojirou Matsui1,2, Naomichi Matsumoto3
1. St. Mary's Hospital, Fukushima, Japan, 2. The Department of Pediatrics and Child Health Kurume University of Medicine, 3. The Department of Human Genetics Yokohama City University

P-341  A case of Pitt–Hopkins syndrome with TCF4 gene mutations
Yu Kakimoto1, Akiko Yakuwa1, Gou Takei1, Tadayuki Kumagai1, Satoshi Takenaka1, Hiroshi Terashima1, Masaya Kubota1, Rika Kosaki2
1. Division of Neurology, National Center for Child Health and Development, Tokyo, Japan, 2. Division of Medical Genetics, National Center for Child Health and Development, Tokyo, Japan

P-342  An autism patient with a de novo SHANK3 mutation: a case report
Kyoko Takano1, Tomoki Koshio1,2,3, Keiko Wakui1,2, Yoshimitsu Fukushima1,2
1. Department of Medical genetics, Shinshu University School of Medicine, Matsumoto, Japan, 2. Division of Clinical and Molecular Genetics, Shinshu University Hospital, Matsumoto, Japan, 3. Department of Pediatrics, Shinano Iryofukushi Center, Shimosouwa, Japan

P-343  A mild case of porencephaly, polymicrogyria, and cerebellar hypoplasia with a TUBA1A mutation
Tatsuharu Sato1, Mitsuhiro Katou2, Daishi Inoue1, Kouhei Haraguchi1, Hirotomo Saiitsu3, Naomichi Matsumoto3, Hiroyuki Moriuchi1
1. The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan, 2. The Department of Pediatrics Showa University School of Medicine, Tokyo, Japan, 3. The Department of Genetics, Yokohama City University Graduate School of Medicine

**Poster Presentation**

**Genetics 2**

Moderator: Yo Niida (Center for Medical genetics, Kanazawa Medical University hospital)

P-344  Cerebellar ataxia and development delay associated with STXBP1 mutation in a 5-year-old child
Ayako Ueda1, Hitoshi Osaka1, Satoko Miyatake2, Hirotomo Saiitsu2, Naomichi Matsumoto2, Takanori Yamagata1
1. Department of Pediatrics, Chichi medical university, Tochigi, Japan, 2. Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

P-345  Cerebral vascular malformations in patients with ACTA2 mutations
Chihiro Hatano1, Takayuki Yoko1, Mariko Takagi1, Tomohide Goto2, Hideaki Ueda1, Yuta Fujii1, Noriko Aida4, Kenji Kurosawa1
1. Division of Medical Genetics, Kanagawa Children's Medical Center, Yokohama, Japan, 2. Department of Neurology, Kanagawa Children's Medical Center, Yokohama, Japan, 3. Department of Cardiology, Kanagawa Children's Medical Center, Yokohama, Japan, 4. Department of Radiology, Kanagawa Children's Medical Center, Yokohama, Japan

P-346  Long-term clinical feature of West syndrome with a de novo 19p13.2 deletion: a case report
Naomi Hino-Fukuyo1,2, Atsuo Kikuchi2, Mieko Hirose3, Hiroyuki Yokoyama4, Kazuhiro Haginoya5, Natsuko Ichinoi-Arai2, Ryo Sato2, Tetsuya Niiori1,2, Yoko Aoki1,6, Shigeo Kure4
1. Center of Genomic Medicine, Tohoku University Hospital, Sendai, Japan, 2. Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan, 3. Department of Pediatrics, Hakodate Central General Hospital, 4. Yamagata University Faculty of Medicine, School of Nursing, 5. Department of Pediatric Neurology, Takuto rehabilitation Center for Children, Sendai, Japan, 6. Department of Medical Genetics, Tohoku University School of Medicine, Sendai, Japan

P-347  A microcephaly patient with PNKP gene mutation
Mari Kuwajima1,2, Hitoshi Osaka1, Masako Nagashima1, Hirotomo Saiitsu2, Naomichi Matsumoto2, Takanori Yamagata1
1. The Department of Pediatrics, Chichi medical university, Tochigi, Japan, 2. Department of genetics, Yokohama City University, Yokohama, Japan

P-348  Cockayne syndrome with marked rigidity and joint contractures at the neonatal period
Mizuki Kobayashi1, Akikiho Miyachi1, Tomoo Og1, Hitoshi Osaka1, Takanori Yamagata1
1. Department of Pediatrics, Chichi Children's Medical Center Tochigi, Chichi medical university, Tochigi, Japan, 2. Department of Genetic Studies, Research Institute of Environmental Medicine, Nagoya University, Nagoya, Japan
P-349  A girl with Coffin–Siris syndrome with epilepsy accompanied deletion including ARID1B gene
Asako Horino1, Yukitosi Takahashi1, Kazuki Tsukamoto1, Shinsaku Yoshitomi1, Tokito Yamaguchi1, Hideyuki Ohtani1,
Hiroyuki Ikeda1, Katsumi Imai1, Hideo Shigematsu1, Yusi Inoue1, Mitsuhiro Kato2, Mitsuko Nakashima3, Hirotomu Saitou3,
Naomichi Matsumoto2, Naoki Matsuo1  1.Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan, 2.Department of Pediatrics, Showa University School of Medicine, 3.Department of Human Genetics, Yokohama City University Graduate School of Medicine, 4.Department of Pediatrics, Gifu Prefecture General Hospital

P-350  A three–year–old boy with Temple–Baraitser syndrome caused by a de novo mutation in the KCNH1 gene
Satoshi Akamine1, Yasunari Sakai1, Yuka Ichimiya1, Michiko Torio1,2, Yoshito Ishizaki1, Masafumi Sanefuji1, Hiroyuki Torisu2, Ryoko Fukui2, Noriko Miyake2, Hirotomo Saitou2, Naomichi Matsumoto3, Hidetoshi Tokada1  1.Department of Pediatrics, University of Kyushu, Fukuoka, Japan, 2.Fukuoka Dental College Medical and Dental Hospital, 3.Department of Human Genetics, Yokohama City University

P-351  A case of atypical Moebius syndrome
Yasuko Nakamura, Kiyotaka Zaha, Kenji Uematu, Hiroshi Matsumoto (Department of Pediatrics, National Defense Medical College, Saitama, Japan)

P-352  A girl with neurofibromatosis 1 developing glaucoma and cranial bone defect
Hiromitsu Toshikawa, Syuichi Shimakawa, Atsushi Mori, Mari Hatanaka, Miho Fukui, Hiroshi Tamai (Department of Pediatrics, Osaka Medical College)

P-353  A girl with CACNA1A gene mutation developing recurrence of stroke–like attack
Atsushi Mori1, Mitsuru Kashiwagi2, Mari Hatanaka1, Hiromitsu Toshikawa1, Shohei Nomura1, Miho Fukui1, Shuichi Shimakawa1, Hiroshi Tamai1  1.Department of Pediatrics, Osaka medical college, Osaka, Japan, 2.Hirakata City Hospital, Osaka, Japan, 3.Seikeikai Hospital, Osaka, Japan

Poster Presentation Poster Exhibition Hall 15:00-15:30
Neonatal neurology
Moderator: Tetsuo Kubota (Department of pediatrics, Anjo Kosei Hospital)

P-354  Time–frequency analysis of brushes in infants with non–cystic PVL
Toru Kato1, Ryosuke Suzuki1, Yuma Noto1, Takeshi Tsuji1, Fumio Hayakawa1, Tetsuo Kubota2, Hiroyuki Kidokoro3, Jun Natsume4, Akihisa Okumura5  1.Department of Pediatrics, Okaki City Hospital, Okazaki, Aichi, Japan, 2.Department of Pediatrics, Anjo Kosei Hospital, Anjo, Aichi, Japan, 3.Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, 4.Department of developmental disability medicine, Nagoya University Graduate School of Medicine, Nagoya, Japan, 5.Department of Pediatrics, Aichi Medical University, Nagakute, Aichi, Japan

P-355  Autonomic function in preterm period is associated with brain growth
Tomoki Maeda, Mizuho Takahashi, Kazuhide Sekiguchi (Department of Pediatrics and Child Neurology, Oita University)

P-356  A case of KCNQ2 encephalopathy successfully treated with PB and ZNS
Yuka Nishizawa, Jun Matsui, Noriko Nishihara, Tatsuyuki Sakoda, Tomoyuki Takano, Yoshitaka Takeuchi (The Department of pediatrics, Shiga University of Medical Science, Shiga, Japan)

P-357  A case of mitochondrial complex IV deficiency with severe respiratory failure in neonatal period
Osamu Kobayashi1, Naoki Fukushima1, Kazuo Okanari2, Tomoki Maeda3, Kei Murayama4, Akira Ohtake4  1.Almeida Memorial Hospital, Oita, Japan, 2.Department of Pediatrics, Faculty of Medicine, Oita University, Oita, Japan, 3.Department of Metabolism, Chiba Children's Hospital, Chiba, Japan., 4.Department of Pediatrics, Faculty of Medicine, Saitama Medical University, Saitama, Japan

P-358  A case of infantile spasms with KCNQ2 gene mutation
Koji Tominaga1,2,3, Akito Watanabe1,2, Kanako Kishimoto1,2, Junpei Tanigawa1,2, Yoshiko Iwata1,2,3, Shin Nabatame1,3, Kuroki Shimo1,2,3, Mitsuko Nakajima1,2, Mitsuhiro Kato1, Hirotomu Saitou2, Naomichi Matsumoto2, Keiichi Ozono1,3  1.Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan, 2.United Graduate School of Child Developments, Osaka University, Suita, Japan, 3.Epilepsy Center, Osaka University Hospital, 4.Department of Pediatrics, Showa University School of Medicine, Tokyo, Tokyo, Japan, 5.Department of Human genetics, Yokohama city university Graduate School of Medicine, Kamagawa, Japan

P-359  Four cases of neonatal hypoxic ischemic encephalopathy with total brain injury
Koichi Tanda1, Yumina Sugawara1, Sachiko Koshino2, Katsumi Hayakawa3, Akira Nishimura1  1.The Department of Neonatology, Japanese Red Cross Kyoto Daichi Hospital, Kyoto, Japan, 2.The Department of Radiology, Japanese Red Cross Kyoto Daichi Hospital, Kyoto, Japan, 3.Department of Radiology, Iwate Prefectural Kamaishi Hospital, Iwate, Japan

P-360  Deep medullary vein involvement in neonates with apnea
Asami Ito1, Yoshikazu Kitami2, Naoko Okada3, Youji Ikuta4, Hiromi Suzuki1, Ayaka Koide1, Sunao Tomita1, Sahoko Miyama1  1.Department of Neurology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan, 2.Department of General Pediatrics, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan, 3.Department of Neonatology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan, 4.Department of Pediatrics, Showa General Hospital, Tokyo, Japan
P-361  Temporal change in EEG of neonatal seizure in an early stage
Yoshiyuki Watabe, Seito Hisamatsu, Ryota Kuribayashi, George Imataka, Osamu Arisaka (Department of Pediatrics, Dokkyo Medical University, Tochigi, Japan)

P-362  A case of term hypoxic–ischemic encephalopathy with unilateral cerebral imaging findings
Yoshitaka Oyama1, Kuriko Nakamura2, Ayako Yamamoto1, Keiichiro Sugiyama1, Mari Iwamoto1
1. Department of Pediatrics, Saiseikai Yokohamashi Tobu Hospital, Yokohama, Japan, 2. Department of Neonatology, Saiseikai Yokohamashi Tobu Hospital, Yokohama, Japan

Posters

Moderator: Keiko Shimojima (Tokyo Women's Medical University Institute for Integrated Medical Sciences (TIIMS))

Poster Presentation

Malformation and chromosome aberration 1

P-363  A Case of 9q 31.1 q31.3 deletion with intellectual disability, fatty liver, and weight gain
Sayaka Ohta1, Mariko Kasai1, Konomi Shimoda1, Yoko Mizuno1, Atsushi Sato1, Akira Oka1, Masahi Mizuguchi2
1. The Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan, 2. School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

P-364  Levetiracetam was effective to control of breath–holding spell for a girl of 1p36 deletion syndrome
Akemi Ono1, Hiromichi Ito1, Yoko Abe1, Tatsuo Mori1, Yoshihiro Toda1, Yasunobu Hayabuchi1, Takuya Naruto2, Issei Imoto2, Syoji Kagami1
1. Department of Pediatrics, Tokushima University, Tokushima, Japan, 2. Department of Human Genetics, Tokushima University, Tokushima, Japan

P-365  A case of arthrogryposis multiplex congenita with progressive brain atrophy caused by ZC4H2 gene
Yukimune Okubo1,2,3, Wakaba Endo1, Takehiko Inui1, Yusuke Takezawa1, Mai Anzai1, Ryo Sato2, Natsuko Ichinomi2, Atsuo Kikuchi2, Mitsugu Uematsu2, Shigeo Kuro2, Kazuhiro Haginoya2
1. Department of Pediatric Neurology, Takuto Rehabilitation Center for Children, Sendai, Miyagi, Japan, 2. Department of Pediatrics, Tohoku University, Sendai, Japan

P-366  Two cases of Pitt–Hopkins syndrome with novel mutations on TCF4
Yoshiyuki Kobayashi1,2,3, Hiro Tani1, Yuji Fujii1, Nobutsune Ishikawa1, Masao Kobayashi1, Yoko Hiraki2, Akie Nakamura3, Nobuhiko Okamoto4
1. Department of Pediatrics, Hiroshima University Hospital, Hiroshima, Japan, 2. Hiroshima Municipal Center for Child Health and Development, Hiroshima, Japan, 3. Department of Molecular Endocrinology, National Research Institute for Child Health and Development, Tokyo, Japan, 4. Department of Medical Genetics, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan

P-367  A case of chromosome 9 trisomy mosaicism not detected by conventional karyotyping method
Kanako Maiduru, Tomonari Awaya, Masatoshi Nakata, Takeshi Yoshida, Keiko Saito, Minako Ide, Atsushi Yokoyama, Takeo Kato (Kyoto University Hospital, Kyoto, Japan)

P-368  Medical management of Down syndrome with severe obesity and sleep apnea syndrome
Akiko Okumura, Tomiko Yamashita, Masaaki Kanai, Masayoshi Miura, Noboru Takizawa, Daijirou Shima (Department of Pediatrics, National ospital Organization Toyama Hospital, Toyama, Japan)

P-369  Acute heart failure due to left ventricular noncompaction in a patient with trisomy 13
Anri Hayashi, Tomohiro Kumada, Saeko Sasaki, Kenji Inoue, Mioko Mori, Fumihito Nozaki, Ikuko Hiejima, Minoru Shibata, Tatsuya Fujii (Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Shiga, Japan)

P-370  A case of Poland–Mobius syndrome
Yoshimi Watanabe, Taku Omata, Yukiko Iida, Kazuo Kodama (the Department of Child Neurology, Chiba Children's Hospital, Chiba, Japan)

P-371  ALDH1A1-related cutis laxa: the first Japanese case
Saeko Sasaki1, Fumihito Nozaki1, Nobuhiko Okamoto2, Kenjiro Kosaki2, Fuyuki Miya3,4, Tatsumi Tsunoda3,4, Tomohiro Kumada1, Minoru Shibata1, Ikuko Hiejima1, Anri Hayashi1, Mioko Mori1, Kenji Inoue1, Tatuya Fujii1
1. Department of Pediatrics, Shiga Medical Center for Children, 2. Department of Medical Genetics, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan, 3. Laboratory for Medical Science Mathematics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, 4. Department of Medical Science Mathematics, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, 5. Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan

P-372  Clinical analysis of macrocephaly in our department
Hirofumi Kurata, Tetsuya Oka, Kouyou Oomo, Youko Nishimura, Yoshiaki Saitou, Yoshihiro Maegaki (Division of child neurology, Institute of Neurological Sciences, Faculaty of medicine, Tottori University, Tottori, Japan)

P-373  MECP2 duplication syndrome with ichthyosis and regression due to pericentric X–chromosome inversion
Hideki Shimomura1, Jyunji Mine1, Tomoko Tamaoki-Hashimoto2,3, Yasuhiro Takeshima1,2
1. Department of Pediatrics, Hyogo College of Medicine, Nishinomiya, Japan, 2. Department of Clinical Genetics, Hyogo College of Medicine, Nishinomiya, Japan, 3. Department of Genetics, Hyogo College of Medicine, Nishinomiya, Japan
**Poster Presentation**

**Malformation and chromosome aberration 2**

Moderator: Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University)

P-374  The clinical study of epilepsy in trisomy 18
Ayaka Hirasa1, Yu Tsuyusaki1,2, Yoshihisa Oishi1, Atsushi Nakao3, Seijiro Aso1
1. The Department of Pediatrics, Japanese Red Cross Medical Center, Tokyo, Japan; 2. Division of Neurology, Kanagawa Children's Medical Center, Yokohama, Japan; 3. The Department of Neonatology, Japanese Red Cross Medical Center, Tokyo, Japan

P-375  A case of a girl with WDR45 mutation presented developmental delays and white matter abnormalities
Takao Hoshina1, Toshiyuki Seto1, Kanako Yamashita1, Satoru Sakuma1, Haruo Shintaku1, Taro Shimono2, Kyoko Morimoto3, Masumi Seto1, Toshiyuki Yamamoto1, Hirokomo Saito2, Naomichi Matsumoto3
1. Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka, Japan; 2. Department of Diagnostic and Interventional Radiology, Osaka City University Graduate School of Medicine, Osaka, Japan; 3. Saiseikai Senri Hospital, Osaka, Japan

P-376  De novo TBL1XR1 mutation in a patient with Kabuki syndrome–like features
Rika Kosaki (National Center for Child Health and Development, Tokyo, Japan)

P-377  Two cases of interstitial deletion of the long arm of chromosome 4
Mina Kono, Hiroto Akaike, Atsushi Kato, Eisuke Kondo (The Department of Pediatrics, Kawasaki Medical School Hospital)

P-378  Two autopsy cases of Cockayne syndrome
Daisuke Ieda1, Ikumi Hori1, Eriko Nakajima1, Yutaka Negishi1, Kana Fujii2, Ayako Hattori1, Naoki Ando1, Hiroshi Inagaki2, Shinji Saitoh1
1. Department of Neonatology and Pediatrics, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan; 2. Department of Pathology and Molecular Diagnostics, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan

P-379  West syndrome in child with Mowat–Wilson syndrome
Yoshimichi Hirayama (Department of Pediatrics, Naha City Hospital, Okinawa, Japan)

P-380  Effectiveness of Hangekobokuto for dysphagia in a patient with ring chromosome 22
Michiko Makino, Keiko Akahoshi, Toshihide Shiiki, Masuko Funahashi (Department of Pediatrics, Tokyo Children's Rehabilitation Hospital, Tokyo, Japan)

P-381  Clinical consideration of six cases of Angelman syndrome
Kengo Moriyama1, Shinpei Baba1, Kazue Kimura2, Yuji Sugawara1,3
1. The Pediatrics, Tokyo Medical and Dental University, Tokyo, Japan; 2. Neurological Clinic for Children, Tokyo, Japan; 3. Soka Municipal Hospital

P-382  A case of Joubert syndrome with hepatic fibrosis due to a mutation in INPP5E
Noriko Sawaura, Kazuhiro Muramatsu, Nishiki Makioa, Tomomi Ogata, Hirokazu Arakawa (Department of Pediatrics, Gunma University Graduate School of Medicine, Gunma, Japan)

P-383  A case of hyperphosphatasia–mental retardation syndrome (PGAP3 deficiency) without FACS abnormalities
Tomonari Awaya1, Yoshiko Murakami2, Kanako Maizuru1, Atsushi Yokoyama1, Takeo Kato1, Taro Kinoshita2
1. Department of Pediatrics, Kyoto University Hospital, Kyoto, Japan; 2. Osaka University Immunology Frontier Research Center

P-384  Symptomatic epilepsy with chromosome aberration: two case reports
Shigeto Matsumaru, Akiko Takeshita, Hidetsugu Nakatsukasa, Yumi Tani, Yasushi Itou, Kyoko Hirasa, Hirokazu Oguni, Satoru Nagata (Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan)