

**The 4th Ann Mtg (2001) – International Symposium –
The West Syndrome & Other Infantile Epileptic Encephalopathies**

Date **February 9 - 11, 2001**
Venue **The Yayoi Memorial Hall**
8-1, Kawada-cho, Shinjuku-ku,
Tokyo 162-8666, Japan

Day 1 **Friday, February 9** 🍀 **Day 2** 🍀 **Day 3**

13:30-13:45	
Session 1:	
【Opening Address】	
S-1	History of the West Syndrome – In Quest after the classic ○ Yukio FUKUYAMA Child Neurology Institute, Tokyo, Japan
13:45-15:45	
Session 2:	
【Perspectives and Clinic–Electrical Delineation of the West Syndrome】	
Chairpersons : Richard E. APPLETON, Liverpool Kazuyoshi WATANABE, Nagoya	
S-2-1	What is the West Syndrome? General Perspectives ○ Olivier DULAC Service de Neuropédiatrie, Hôpital St. Vincent de Paul, Paris, France
S-2-2	Symptomatology of Infantile Spasms ○ Kazuyoshi WATANABE Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan

S-2-3	<p>Neurophysiology of Spasm and Hypsarhythmia</p> <p>○ Federico VIGAVANO</p> <p>Department of Child Neurology, Bambino Gesù Children's Hospital IRCCS, Rome, Italy</p>
S-2-4	<p>Spasm in Series</p> <p>○ Yoko OHTSUKA, Katsuhiko KOBAYASHI, Tatsuya OGINO, Eiji OKA</p> <p>Department of Child Neurology, Okayama University Medical School, Okayama, Japan</p>
S-2-5	<p>Clinico-Electrical Evolution in Pre-Hypsarhythmic Stage --Towards Prediction and Prevention of West Syndrome</p> <p>○ Akihisa OKUMURA, Kazuyoshi WATANABE</p> <p>Department of Pediatrics, Nagoya University School of Medicine, Nagoya, Japan</p>
<p>16:10-18:30 Session 3: 【Neurobiological Substrates of the West Syndrome】</p> <p style="text-align: right;">Chairpersons: Harry T. CHUGANI, Detroit Kazuie IINUMA, Sendai</p>	
S-3-1	<p>Neuroradiological Assessment of Brain Structure and Function and Its Implication in the Pathogenesis of West Syndrome</p> <p>○ Harry CHUGANI</p> <p>Children's Hospital of Michigan, Wayne State University, Detroit, MI, USA</p>
S-3-2	<p>Mechanism of Tonic Spasms Viewed from Ictal SPECT Findings</p> <p>○ Kazuhiro HAGINOYA</p> <p>Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan</p>
S-3-3	<p>Infantile Spasms in Tuberous Sclerosis</p> <p>○ Paolo CURATOLO, Stefano SERI</p> <p>Department of Neurosciences, Pediatric Neurology Unit, Tor Vergata University of Rome, Rome, Italy</p>

S-3-4	<p>Neuropathology of Tuberous Sclerosis</p> <p>○ Masashi MIZUGUCHI</p> <p>Department of Pediatrics, Jichi Medical School, Tochigi, Japan</p>
S-3-5	<p>Neuropathology of the Limbic System and Brainstem in West Syndrome</p> <p>○ Masaharu HAYASHI</p> <p>Department of Clinical Neuropathology, Tokyo Metropolitan Institute for Neuroscience, Tokyo, Japan</p>
S-3-6	<p>Polysomnographical Assessment of the Pathophysiology of West Syndrome</p> <p>○ Jun KOYAMA</p> <p>Division of Human Ontogeny and Childhood Development, Graduate School, Tokyo Medical and Dental University, Tokyo, Japan</p>
S-3-7	<p>Magnetoencephalography in the Detection of Focal Lesions in the West Syndrome</p> <p>○ Hideji HATTORI^①, Tsunekazu YAMANO ^①, Hisashi KAWAWAKI ^②, Tsuchiyoshi TSUTADA^③, Naohiro TSUYUGUCHI^④, Masahiro SHIMOGAWARA ^⑤</p> <p>①Department of Pediatrics, Osaka City University Medical School, Osaka, Japan ②Department of Child Neurology, Osaka General Hospital, Osaka, Japan ③Department of Geriatrics and Neurology, Osaka City University Medical School, Osaka, Japan ④Department of Neurosurgery, Osaka City University Medical School, Osaka, Japan ⑤Applied Electronics Laboratory, Kanazawa Institute of Technology, Tokyo, Japan</p>

Day 2 **Saturday, February 10**

09:00-12:10

Session 4:

【West Syndrome-Epidemiology and Current Status in Asia】

Chairpersons : **Paolo CURATOLO, Rome**
Tohru KUROKAWA, Beppu

09:00-10:25

Population / Multicenter-Based Study

S-4-1	<p>National Survey on West Syndrome in Korea</p> <p>○ Yong Seung HWAYNG^① and The Korean Child Neurology Society</p> <p>①Department of Pediatrics, Seoul National University College of Medicine, Seoul, Korea</p>
S-4-2	<p>Epidemiology of Infantile Spasms in Taiwan, 1998-99 Report</p> <p>○ Chainllie YOUNG ^① and Taiwan Child Neurology Society ^②</p> <p>①Department of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan ②Taiwan Child Neurology Society, Taipei, Taiwan</p>
S-4-3	<p>Epidemiological and Clinical Study of West Syndrome in Nagasaki Prefecture, Japan</p> <p>○ Atsuko MATSUO^①, Tatsuo MATSUZAKA^①, Akira TSURU^①, Hiroyuki MORIUCHI^①, Yoshio NAKASHITA^②, Shigeki TANAKA^③, Chikako BABA^④, Kunio TOMIMASU^⑤</p> <p>①Dept of Pediatrics, Nagasaki University School of Medicine, Nagasaki, Japan ②Division of Pediatrics, Sasebo City General Hospital, Sasebo, Japan ③Division of Pediatrics, National Nagasaki-Chuo Hospital, Nagasaki, Japan ④Division of Pediatrics, Japanese Red Cross Nagasaki Atomic Bomb Hospital, Nagasaki, Japan ⑤Division of Pediatrics, Nagasaki Municipal Hospital, Nagasaki, Japan</p>

S-4-4	<p>A Neuroepidemiologic Study on West Syndrome in Okayama Prefecture, Japan</p> <p>○ Eiji OKA, Nagako MURAKAMI, Iori OHMORI</p> <p>Department of Child Neurology, Okayama University Medical School, Okayama, Japan</p>
S-4-5	<p>Incidence of West Syndrome in Singapore</p> <p>○ Wei-Ling LEE^①, Hian-Tat ONG^②, Huan-Kee PHUAH^③</p> <p>① National Neuroscience Institute, Singapore ② National University Hospital, Singapore ③ Kandang Kerbau Woman and Children's Hospital, Singapore</p> <p>Designated Discussion</p> <p><u>Kenneth SILVER</u></p> <p>Loyola University Medical Center, Maywood, IL, USA</p>
<p>10:25-12:10</p> <p>Hospital-Based Study</p>	
S-4-6	<p>Infantile Spasms: Follow-Up of 51 Cases</p> <p>○ Sabiha AYSUN , Asli KURNE, Dilek YALNYZOGLU, Guzide TURANLY, Haluk TOPALOGLU, Baru ANLAR, Meral TOPÇU</p> <p>Department of Pediatric Neurology, Faculty of Medicine, Hacettepe University, Ankara, Turkey</p>
S-4-7	<p>West Syndrome: A University Hospital-Based Study from Oman</p> <p>○ Roshan Lal KOUL</p> <p>Pediatric Neurology, Sultan Qaboos University Hospital, Muscat, Oman</p>
S-4-8	<p>West Syndrome: Indian Tertiary Care Hospital Experience</p> <p>○ Veena KALRA, Sheffali GULATI, Shaji MENON</p> <p>Division of Child Neurology, Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India</p>

S-4-9	<p>Infantile Spasms: A 3 Year Retrospective Study from Klang, Malaysia</p> <p>○ Malinee THAMBYAYAH</p> <p>Hospital Selayang, Kuala Lumpur, Malaysia</p>
S-4-10	<p>Infantile Spasms in Thailand: A Hospital-Based Survey</p> <p>○ Surang CHIEMCHANYA, Anannit VISUDTIBHAN, Pongsakdi VISUDHIPHAN</p> <p>Department of Pediatrics, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand</p>
S-4-11	<p>Infantile Spasms in Hong Kong – The University of Hong Kong Experience</p> <p>○ Virginia WONG</p> <p>Division of Child Neurodevelopmental Paediatrics, Department of Paediatrics, The University of Hong Kong, Hong Kong, China</p>
S-4-12	<p>Infantile Spasms (West Syndrome): The Philippine Experience</p> <p>○ Aida M. SALONGA^①, Marissa B. LUKBAN^①, Ana Marissa D. LAGMAN^①, Jerusha G.ABDALLAH^②, Marilyn H. ORTIZ^②</p> <p>① University of the Philippines-Philippine General Hospital (UP-PGH), Manila, Philippines ② Philippine Children’s Medical Center (PCMC), Quezon, Philippines</p>
S-4-13	<p>West Syndrome: An Overview of Epidemiologic and Related Data in China</p> <p>○ Jiong QIN</p> <p>Department of Pediatrics, Peking University First Hospital, Beijing, China</p>

13:30-15:30

Session 5:

【Pathogenesis of the West Syndrome】

Chairpersons : Tallie Z.BARAM, Irvine
Akihisa MITSUDOME, Fukuoka

S-5-1	How Do the Many Etiologies of West Syndrome Lead to Excitability and Seizures? The Corticotropin Releasing Hormone Excess Hypothesis ○ Tallie Z. BARAM Department of Pediatrics and Anatomy/Neurobiology, Medical Sciences 1, University of California, Irvine, CA, USA
S-5-2	The Effect of ACTH on Ion Channels in the Brain ○ Chainllie YOUNG ①, Ya-Jun HUANG ②, Shibing YANG ①, Po-Wu GEAN ②, Yu-Zen SHEN ① ①Department of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan ②Department of Pharmacology, National Cheng-Kung University, Tainan, Taiwan
S-5-3	Changes of Serum Cytokine Levels and Their Clinical Significance in Children with West Syndrome ○ Zhisheng LIU Wuhan Children's Hospital, Wuhan, China
S-5-4	Clinical Analysis and MRI Findings of PKU-WS Syndrome ○ Zhongshu ZHOU, Chengning ZHEN, Zhixin WANG, Weimin YU Department of Pediatrics, China-Japan Friendship Hospital, Beijing, China
S-5-5	The Role of Central Histaminergic Neuron System as an Anticonvulsive Mechanism in Developing Brain ○ Hiroyuki YOKOYAMA Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan

S-5-6	<p>Clinical and Pedigree Studies in Familial Cases of West Syndrome</p> <p>○ Kenji SUGAI ①, Yukio FUKUYAMA ② and Study Group on Familial West Syndrome in Japan</p> <p>①Department of Child Neurology, National Center Hospital for Mental, Nervous and Muscular Disorders, National Center of Neurology and Psychiatry, Kodaira, Japan</p> <p>②Child Neurology Institute, Tokyo, Japan</p>
S-5-7	<p>Why Do Only Some Infants with Brain Insults Get West Syndrome/Infantile Spasms (WSIS)? Genetic Approaches</p> <p>○ Tallie Z. BARAM</p> <p>Department of Pediatrics and Anatomy/Neurobiology, Medical Sciences 1, University of California, Irvine, CA, USA</p>
S-5-8	<p>Comment on the Genetic Approach</p> <p>○ Ingrid E. SCHEFFER</p> <p>Epilepsy Research Institute, Austin & Repatriation Medical Center, University of Melbourne, Royal Children's Hospital, Monash Medical Centre, Melbourne, Australia</p>
<p>16:00-18:00</p> <p>Session 6:</p> <p>【Ohtahara Syndrome (EIEE)】</p> <p style="text-align: right;">Chairpersons : Federico VIGEVANO, Rome Shunsuke OHTAHARA, Okayama</p>	
S-6-1	<p>The Ohtahara Syndrome, with Particular References to Its Evolution to the West Syndrome</p> <p>○ Yasuko YAMATOI, Shunsuke OHTAHARA</p> <p>Department of Health Science and Welfare, Okayama Prefectural University, Okayama, Japan</p> <p>Department of Child Neurology, Okayama University Medical School, Okayama, Japan</p>

<p>S-6-2</p>	<p>Clinical and Video/EEG Aspects of Different Types of Early Infantile Epileptic Encephalopathy with Suppression-Bursts</p> <p>○ Lucia FUSCO, Christa PACHATZ, Matteo DI CAPUA, Federico VIGEVANO</p> <p>Department of Child Neurology, Bambino Gesù Children’s Hospital IRCCS, Rome, Italy</p>
<p>S-6-3</p>	<p>Early Epileptic Encephalopathy with Suppression-Bursts A Review of 8 Patients</p> <p>○ Peir-Taur CHEN, Jao-Shwann LIANG, Li-Wen CHU, Chainllie YOUNG, Pen-Jung WANG, Yu-Zen SHEN</p> <p>Department of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan</p>
<p>S-6-4</p>	<p>Brainstem Pathology and Neurotransmitters in Early Infantile Epileptic Encephalopathy in Comparison to Those in the West Syndrome</p> <p>○ Masayuki ITOH ①, Shigeru HANAOKA ②, Eisaku OHAMA ③, Sachio TAKAHASHI ①</p> <p>①National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), Kodaira, Japan ②National Center Hospital for Mental, Nervous and Muscular Disorders, NCNP, Kodaira, Japan ③Division of Neuropathology, Research Institute of Neurological Sciences, Tottori University, Yonago, Japan</p>
<p>S-6-5</p>	<p>Various Trials of Medical Treatment for Ohtahara Syndrome (EIEE)</p> <p>○ Yuichi TAKUSA ①, Hideo YOSHIKAWA ②, Hiroshi OZAWA ③</p> <p>①Department of Pediatrics, Shimane Medical University, Izumo, Japan ②Department of Pediatrics, Niigata City General Hospital, Niigata, Japan ③Department of Pediatrics, Tokyo Metropolitan Hachioji Children’s Hospital, Hachioji, Japan</p>
<p>S-6-6</p>	<p>Surgical Treatment of a Case of Early Infantile Epileptic Encephalopathy with Suppression-Bursts Associated with Focal Cortical Dysplasia</p> <p>○ Hirofumi KOMAKI①, Kenji SUGAI①, Taketoshi MAEHARA ②, Hiroyuki SHIMIZU ②</p> <p>①Department of Child Neurology, National Center of Neurology and Psychiatry (NCNP), Kodaira, Japan ②Department of Neurosurgery, Tokyo Metropolitan Neurological Hospital, Fuchu, Japan</p>

S-7-6	<p>Vigabatrin in Tuberous Sclerosis Complex</p> <p>○ Paolo CURATOLO, Magda VERDECCHIA</p> <p>Department of Neuroscience, Pediatric Neurology Unit, Tor Vergata University of Rome, Rome, Italy</p>
S-7-7	<p>High-Dose Vitamin B6 Treatment in West Syndrome</p> <p>○ Yasuhisa TORIBE</p> <p>Division of Pediatric Neurology, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan</p>
S-7-8	<p>Zonisamide Monotherapy in West Syndrome</p> <p>○ Yasuhiro SUZUKI</p> <p>Division of Pediatric Neurology, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan</p>
S-7-9	<p>TRH: Role in the Treatment of West Syndrome and Related Epileptic Encephalopathies</p> <p>○ Yoshihiro TAKEUCHI</p> <p>Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan</p>
S-7-10	<p>A Cochrane Review of the Treatment of Infantile Spasms</p> <p>○ Eleanor HANCOCK^①, John OSBORNE^②, Philip MILNER^③</p> <p>①Great Ormond Street Hospital, London, U.K. ②Royal United Hospital, Bath, U.K. ③University of Bath, Bath, U.K.</p>
<p>13:30-15:30</p> <p>Session 8:</p> <p>【West Syndrome-Surgery, Natural History, Prognosis and Social Aspects】</p> <p style="text-align: right;">Chairpersons : Olivier DULAC, Paris Toshiaki ABE, Tokyo</p>	

S-8-1	<p>Surgical Treatment of West Syndrome</p> <p>○ Harry T. CHUGANI</p> <p>Children's Hospital of Michigan, Wayne State University, Detroit, MI, USA</p>
S-8-2	<p>Spontaneous Remission of Spasms in West Syndrome — Implications of Viral Infection</p> <p>○ Haruo HATTORI</p> <p>Department of Pediatrics, Kyoto University School of Medicine, Kyoto, Japan</p>
S-8-3	<p>Long-Term Outcome of Children with West Syndrome</p> <p>○ Raili RIIKONEN</p> <p>Department of Child Neurology, Kuopio University Hospital, Kuopio, Finland</p>
S-8-4	<p>West Syndrome: Long-Term Prognosis and Social Aspects</p> <p>○Richard APPLETON</p> <p>The Roald Dahl EEG Unit, Alder Hey Children's Hospital, Liverpool, U.K.</p>

<p>S-8-5</p>	<p>Long-Term Prognosis of Patients with West Syndrome in Japan The Research Committee of Tokyo Chapter, Japanese Epilepsy Association, Tokyo, Japan</p> <p>S-8-5-1 Medical Aspects</p> <p>○ Makiko ITO ①②, Tamaki KUMAGAI ①③, Yoshihiko YAMAZAKI ①③, Kayoko SEKIJIMA ①④, Kazue SAKAKIBARA ①⑤, Yoko MATSUMOTO ①, Fumiko HIJIKIGAWA ①, Hisako YAMADA ①</p> <p>①The Research Committee of Tokyo Chapter, Japanese Epilepsy Association, Tokyo, Japan ②School of Health Sciences, Osaka University, Osaka, Japan ③Graduate School of Health Sciences and Nursing, University of Tokyo, Tokyo, Japan ④School of Health Sciences, University of Niigata, Niigata, Japan ⑤Ikeda Public Health Center, Osaka, Japan</p> <p>S-8-5-2 Social Aspects</p> <p>○ Tamaki KUMAGAI ①②, Mikiko ITO ①③, Yoshihiko YAMAZAKI ①③, Kyoko SEKIJIMA ①④, Kazue SAKAKIBARA ①⑤, Yoko MATUTOMO ①, Humiko HIJIKIGAWA ①, Hisako YAMADA ①</p> <p>①The Research Committee of Tokyo Chapter, Japanese Epilepsy Association, Tokyo, Japan ②Graduate School of Health Science, University of Tokyo, Tokyo, Japan ③School of Health Science, Osaka University, Osaka, Japan ④School of Health Science Niigata University, Niigata, Japan ⑤Ikeda Public Health Center, Osaka, Japan</p>
<p>S-8-6</p>	<p>Long-Term Follow-Up Study of Tuberous Sclerosis with West Syndrome</p> <p>○ Katsuyuki FUKUSHIMA, Yushi INOUE, Tateki FUJIWARA, Kazuichi YAGI National Epilepsy Center, Shizuoka Higashi Hospital, Shizuoka, Japan</p>
<p>16:00-17:45 Session 9: 【Other Related Syndromes】</p> <p style="text-align: right;">Chairpersons : Ingrid Scheffer, Melbourne Eiji OKA, Okayama</p>	

<p>S-9-1</p>	<p>Epileptic Encephalopathy with Migrating Partial Seizures in Early Infancy</p> <p>○ Olivier DULAC</p> <p>Service de Neuropédiatrie, Hôpital St.Vincent de Paul, Paris, France</p>
<p>S-9-2</p>	<p>A Study of Core and Peripheral Types of Severe Myoclonic Epilepsy in Infancy</p> <p>○ Osamu KANAZAWA, Jun TOHYAMA</p> <p>Department of Pediatrics, Epilepsy Center, National Nishi- Niigata Central Hospital, Niigata, Japan</p>
<p>S-9-3</p>	<p>Retrospective Study on Long-Term Prognosis and Treatment of Cryptogenic Myoclonic-Astatic Epilepsy (CMAE)</p> <p>○ Hirokazu OGUNI, Teruyuki TANAKA, Makoto FUNATSUKA, Masako SAKAUCHI, Seigo SHIRAKAWA, Kitami HAYASHI, Makiko OSAWA</p> <p>Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan</p>
<p>S-9-4</p>	<p>Clinical and Molecular Genetics of Severe Myoclonic Epilepsy in Infancy and Myoclonic-Astatic Epilepsy</p> <p>○ Ingrid E. SCHEFFER</p> <p>Epilepsy Research Institute, Austin & Repatriation Medical Center, University of Melbourne, Royal Children's Hospital, Monash Medical Centre, Melbourne, Australia</p>
<p>S-9-5</p>	<p>PEHO Syndrome</p> <p>○ Raili RIIKONEN</p> <p>Department of Child Neurology, Kuopio University Hospital, Kuopio, Finland</p>
<p>17:45-18:15</p> <p>Session 10:</p> <p>【Consensus Development and Epilogue】</p> <p style="text-align: right;">Chairpersons : John P. OSBORNE, Bath Yukio FUKUYAMA, Tokyo</p>	

S-10-1	Towards an International Consensus on Definitions and Standardised Outcome Measures for Therapeutic Trials in Infantile Spasms ○ John P. OSBORNE, Andrew LUX Department of Paediatrics and Child Health, University of Bath, Bath, U.K.
S-10-2	General Discussions and Proposals
S-10-3	Concluding Remarks ○ Shunsuke OHTAHARA Department of Child Neurology, Okayama University Medical School, Okayama, Japan