

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 1

January 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Editorial

New Year's greetings

M. Morimoto (Japan)

Original Articles

Second nationwide survey of bilirubin encephalopathy in preterm infants in Japan

A. Okumura, I. Morioka, H. Arai, M. Hayakawa, Y. Maruo, T. Kusaka, T. Kunikata and S. Iwatani (Japan, South Korea)

A nationwide survey of adenovirus-associated encephalitis/encephalopathy in Japan

M. Nakazawa, S. Abe, M. Ikeno, T. Shima, T. Shimizu and A. Okumura (Japan)

Survey of medications for myelomeningocele patients over their lifetime in Japan

H. Isozaki, M. Nonaka, Y. Komori, K. Ueno, H. Iwamura, M. Miyata, N. Yamamura, Y. Li, J. Takeda, Y. Nonaka, I. Yabe, M. Zaitsu, K. Nakashima and A. Asai (Japan)

Febrile seizure in children with COVID-19 during the Omicron variant-predominant era: A single-center study

K. Ohta, T. Okanishi, Y. Arai, S. Kanai, Y. Nakamura, N. Namba and Y. Maegaki (Japan)

Volumetric magnetic resonance imaging differences between complex febrile seizure and recurrent simple febrile seizure

B. Cavusoglu, C. Ozer Gokaslan and D. Cavusoglu (Turkey)

Case Reports

The first case of hemorrhagic shock and encephalopathy syndrome with fulminant hypercytokinemia associated with pediatric COVID-19

K. Kurane, K. Wakae, H. Yamagishi, Y. Kawahara, M. Ono, D. Tamura, K. Furuya, N. Taga, M. Matsuki, T. Yamagata and K. Muramatsu (Japan)

Transcutaneous auricular vagus nerve stimulation therapy in patients with cognitively preserved structural focal epilepsy: A case series report

H. Shiraishi, K. Egawa, K. Murakami, M. Nakajima, Y. Ueda, S. Nakakubo, M. Narugami, S. Kimura, T. Goto, Y. Hiramatsu and M. Murakami (Japan)

49

Cilostazol treats transient heart failure caused by *ATP1A3* variant-associated polymicrogyria

N. Yamamoto, I. Kuki, K. Shimizu, A. Ohgitani, N. Yamada, M. Fujino and S. Yoshida (Japan)

57

Later efficacy of nusinersen treatment in adult patients with spinal muscular atrophy: A retrospective case study with a median 4-year follow-up

M. Funato, A. Kino, R. Iwata, M. Yumioka, K. Yamashita, C. Urui, R. Uno, E. Kondo, E. Morioka, Y. Ogawa, A. Kawamura, T. Kusukawa and H. Minatsu (Japan)

62

Improvement in a post-stroke pediatric patient with hemiplegia: Use of a hand-arm bimanual intensive therapy with hybrid assistive limb

Y. Matsumoto, Y. Yoshii, A. Ikutomo, M. Yagi, M. Nishimura, Y. Kawasaki, A. Sarafian, H. Kim, D.P. Roye Jr. and H. Matsumoto (Japan, USA)

68

Letter to the Editor

Potential of arterial spin labeling in elucidating the pathogenesis of the splenium of the corpus callosum and cerebellar dentate nucleus in encephalopathy

M. Matsuda, T. Murata, T. Otani, K. Yoshida, Y. Sanpei, K. Iijima, H. Nakae and N. Mori (Japan)

73

44

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202401)46:1;1-H

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 2

February 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Review Article

The relation between neuroimaging and visual impairment in children and adolescents with cerebral palsy: A systematic review

M. Crotti, S. Genoe, N. Ben Itzhak, L. Mailleux and E. Ortibus (Belgium)

75

Efficacy of methylphenidate treatment in childhood myotonic dystrophy type 1 and comorbid attention deficit hyperactivity disorder: A case report using eye tracking assessment

D.J.J. Sweere, J.G.M. Hendriksen, R. Jeroen Vermeulen and S. Klinkenberg (the Netherlands)

118

Original Article

RCOR1 improves neurobehaviors and neuron injury in rat cerebral palsy by Endothelin-1 targeting-induced Akt/GSK-3β pathway upregulation

H. Xu, X. Yu, R. Xie, Y. Wang and C. Li (China)

93

Etiologies and clinical characteristics of acute ataxia in a single national children's medical center

M. Zhang, G. Pan, S. Zhou, J. Shen, W. Li, Y. Zhou, L. Yu and L. Zhang (China)

103

Diagnostic odyssey of Guillain-Barré syndrome in children

Y. Kobayashi Takahashi, I. Hayakawa and Y. Abe (Japan)

108

Letter to the editor

In patients with neurological complications, SARS-CoV-2 infection must be confirmed by PCR

J. Finsterer (Austria)

122

Corrigendum

Corrigendum to “Dramatic effect of levetiracetam in early-onset epileptic encephalopathy due to *STXBP1* mutation” [Brain Dev. 38(1) (2016) 128–131]

R. Dilena, P. Striano, M. Traverso, M. Viri, G. Cristofori, L. Tadini, S. Barbieri, A. Romeo and F. Zara (Italy)

124

Case Report

Use of lacosamide for focal epilepsy in a child with kidney failure undergoing peritoneal dialysis

Y. Ueda, A. Furugen, M. Kobayashi, Y. Sato, Y. Ueda, A. Hayashi, T. Goto, S. Kimura, M. Narugami, S. Nakakubo, M. Nakajima, K. Egawa, T. Okamoto, A. Manabe and H. Shiraishi (Japan)

114

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202402)46:2;1-1

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 3

March 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Review Article

Neuropsychiatric manifestations associated with Juvenile Systemic Lupus Erythematosus: An overview focusing on early diagnosis

A. Nikolaidou, I. Beis, P. Dragoumi and D. Zafeiriou
(Greece)

125

Nusinersen induces detectable changes in compound motor action potential response in spinal muscular atrophy type 1 patients with severe impairment of motor function

Y. Ueda, K. Egawa, K. Kawamura, N. Ochi, T. Goto,
S. Kimura, M. Narugami, S. Nakakubo, M. Nakajima,
A. Manabe and H. Shiraishi (Japan)

149

Original Articles

Early infantile spontaneous movement in very low birthweight infants is associated with sensory characteristics at the corrected age of 3 years

O. KOBAYASHI, T. MAEDA and K. IHARA (Japan)

135

Case Report

Splicing variant of *WDR37* in a case of Neurooculocardiogenitourinary syndrome

M. Samejima, M. Nakashima, J. Shibasaki, H. Saitsu and
M. Kato (Japan)

154

Current state of hemispherectomy and callosotomy for pediatric refractory epilepsy in Denmark

V.E. De Knegt, M.L. Børresen, M. Knudsen,
K.M. Thomsen, P.V. Uldall, A.V. Jakobsen and
C.E. Hoei-Hansen (Denmark)

142

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202403)46:3;1-9

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 4

April 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Original articles

Risk factors for post-encephalopathic epilepsy in patients with acute encephalopathy with biphasic seizures and late reduced diffusion

M. Nishioka, M. Motobayashi, T. Fukuyama and Y. Inaba
(Japan)

161

A comprehensive study of mutation and phenotypic heterogeneity of childhood mitochondrial leukodystrophies

S. Hosseinpour, E. Razmara, M. Heidari, Z. Rezaei,
M.R. Ashrafi, A.Z. Dehnavi, R. Kameli, A.H. Bereshneh,
H. Vahidnezhad, R. Azizimalamiri, Z. Zamani, N. Pak,
M. Rasulinezhad, B. Mohammadi, H. Ghabeli,
M. Ghafouri, M. Mohammadi, G.R. Zamani, R.S. Badv,
S. Saket, B. Rabbani, N. Mahdieh, A. Ahani, M. Garshasbi
and A.R. Tavasoli (Iran, Australia, Iran, USA)

167

Exploration of urine metabolic biomarkers for new-onset, untreated pediatric epilepsy: A gas and liquid chromatography mass spectrometry-based metabolomics study

T. Akiyama, D. Saigusa, T. Inoue, C. Tokorodani,
M. Akiyama, R. Michiue, A. Mori, E. Hishinuma,
N. Matsukawa, T. Shibata, H. Tsuchiya and K. Kobayashi
(Japan)

180

Letter

Key considerations for the diagnosis of Guillain-Barré syndrome in pediatric populations

T.C. Sekhar (USA)

187

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202404)46:4;1-5

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 5

May 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Original Articles

‘Reading the palm’ – A pilot study of grip and finger flexion strength as an outcome measure in 5q spinal muscular atrophy

C. Weber, A. Müller, M. Freigang, M. von der Hagen and R. Günther (Germany)

189

207

The muscle regeneration marker *FOXP3* is associated with muscle injury in Duchenne muscular dystrophy

S. Yannin Hernández-de la Cruz,
T. Ordaz-Robles, M. Antonio Villaldama-Soriano,
C. Emmanuel Luna-Guzmán, T. Almeida-Becerril,
J. Villa-Morales, A. Cárdenas-Conejo,
E. Dolores Ruíz-Cruz, J. Maldonado-Hernandez,
M. Bernabe-García, L. Barbosa-Cortés and
M. Rodríguez-Cruz (Mexico, México)

199

Long-term efficacy of intrathecal cyclodextrin in patients with Niemann-Pick disease type C

M. Matsuo, T. Sakakibara, Y. Sakiyama, T. So,
M. Kosuga, T. Kakuchi, F. Ichinose, T. Nakamura,
Y. Ishitsuka and T. Irie (Japan)

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202405)46:5;1-1

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 6

June 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Original Article

Metabolic etiologies in children with infantile epileptic spasm syndrome: Experience at a tertiary pediatric neurology center

M.F. Yüksel, N. Doğulu, M. Yıldırım, E. Köse, Ö. Bektaş,
F.T. Eminoglu and S. Teber (Turkey)

Prophylactic antiseizure medications for recurrent status epilepticus in nonsyndromic childhood epilepsy

H. Takeuchi, N. Higurashi and Y. Toga (Japan)

Effects of increased physical therapy staffing in the neonatal intensive care unit on oral feeding maturation and neurodevelopment of extremely low birth weight infants

Y. Morioka, M. Nonogaki, D. Kobayashi, J. Nishimoto
and S. Obayashi (Japan)

Case Report

A female case of L1 syndrome that may have developed due to skewed X inactivation

T. Mori, M. Nakano, T. Tayama, A. Goji, Y. Toda,
S. Kameyama, T. Mizuguchi, M. Urushihara and
N. Matsumoto (Japan) 230

JSCN Best Paper Awards

213 219

224

I

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202406)46:6;1-Y

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 7

August 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Original Articles

Developmental changes in prefrontal cortex activation in children with or without autism spectrum traits on near-infrared spectroscopy

T. Niimi, Y. Inaba and H. Honda (Japan)

Variation in neuroimaging and outcomes in patients with Sturge Weber syndrome Type III

A. Hadjinicolaou, A. Quinlan, S. Liu, B. Zhang,
M. Takeoka, M. Sahin, S.P. Prabhu and A.L. Pinto (USA,
Canada)

Case Report

Adolescent-onset epilepsy and deterioration associated with CAD deficiency: A case report

S. Silva, M. Rosas, B. Guerra, M. Muñoz, A. Fujita,
M. Sakamoto and N. Matsumoto (Chile, Japan) 250

235

244

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202408)46:7;1-R

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 8

September 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Call for Abstracts for Oral and Poster Presentations

Original Article

Intrauterine twin environment and genetic factors
subliminally affecting general movements in preterm infants

E. Eto, T. Maeda, O. Kobayashi and K. Ihara (Japan)

Glucose instability and outcomes of neonates with
hypoxic ischemic encephalopathy undergoing therapeutic
hypothermia

M.A.M. Ali, M.A.A. Farghaly, I. El-Dib, S. Karnati,
H. Aly and C. Acun (USA)

- | | | |
|-----|--|-----|
| iii | Serum 25(OH)D and vitamin K ₁ levels in patients with
severe motor and intellectual disability: A Japanese single-
center experience
T. Sakai, T. Oishi, Y. Takashina and M. Hirao (Japan) | 268 |
| 255 | Epidemiological study on pediatric-onset dystonia in Japan:
A questionnaire-based survey
Y. Suenaga, E. Takeshita, K. Yamamoto, N. Sumitomo,
S. Baba, Y. Shimizu-Motohashi, T. Saito, H. Komaki,
E. Nakagawa and M. Sasaki (Japan) | 274 |
| 262 | | |

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202409)46:8;1-N

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 9

October 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Call for abstracts for oral and poster presentations

Original Article

Glass syndrome derived from chromosomal breakage downstream region of *SATB2*

K. Shimojima Yamamoto, R. Shimomura, H. Shoji and T. Yamamoto (Japan)

Clinical, biochemical and genetic characteristics and long-term follow-up of five patients with malonyl-CoA decarboxylase deficiency

J.M. Zhang, L.L. Hao, W.J. Qiu, H.W. Zhang, T. Chen, W.J. Ji, Y. Zhang, F. Liu, X.F. Gu, S.H. Yang and L.S. Han (China)

iii Effect of cannabidiol as a neuroprotective agent on neurodevelopmental impairment in rats with neonatal hypoxia

Á. Hernández-Suárez, L.A. Marin-Castañeda, C. Rubio and H. Romo-Parra (Mexico)

294

281 Case Report

Epileptic foci and networks in children with epilepsy after acute encephalopathy with biphasic seizures and late reduced diffusion

T. Mitsumatsu, Y. Ito, Y. Maki, H. Yamamoto, F. Sawamura, T. Ishizaki, S. Maesawa, E. Bagarinao, T. Nakata, H. Kidokoro, R. Saito and J. Natsume (Japan)

302

286

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7604(202410)46:9;1-B

05017

BRAIN & DEVELOPMENT

Official Journal of
the Japanese Society
of Child Neurology

CONTENTS

Volume 46, Issue 10

November 2024

Cited in BIOBASE – BIOSYS Preview – Current Contents/Clinical Medicine – Current Contents/Life Science – Elsevier BIOBASE/Current Awareness in Biological Sciences – EMBASE/Excerpta Medica – MEDLINE – PsycINFO – Science Citation Index – Scopus®
Full text available in ScienceDirect®

Original Article

A nationwide survey of Vici syndrome in Japan
I. Hori, T. Iwaki, E. Sato, D. Ieda, Y. Negishi, A. Hattori and S. Saitoh (Japan)

309

361

Color density spectral array findings on continuous EEG during therapeutic hypothermia in children with acute encephalopathy

A. Shiraki, H. Yamamoto, A. Ohno, S. Kumai, R. Suzui, F. Sawamura, M. Kawaguchi, T. Suzuki, Y. Maki, Y. Ito, T. Nakata, H. Kidokoro, A. Numaguchi and J. Natsume (Japan)

313

368

Long-term observation of patients with advanced late-onset Pompe disease undergoing enzyme replacement therapy: A 15-year observation in a single center

M. Mori-Yoshimura, H. Takizawa, A. Unuma, Y. Oya, K. Yorimoto, W. Katsuta, K. Miyagi, N. Sato, T. Hara and Y. Takahashi (Japan)

Recognizing red flags for alternative diagnoses in pediatric chorea beyond Sydenham's

J.J. Guzmán-Porras, O.M. Espitia Segura and L.V. Gómez Diaz (Colombia)

Efficacy and safety of buccal midazolam for seizures outside the hospital: Real-world clinical experience

T. Ueda, M. Nishiyama, H. Yamaguchi, K. Soma, Y. Ishida, A. Maruyama, K. Nozu and H. Nagase (Japan)

320

373

A retrospective study on post-operative recovery of daily living activity after total corpus callosotomy

H. Tsuchiya, T. Shibata, T. Sasaki, M. Akiyama, T. Akiyama and K. Kobayashi (Japan)

326

383

Characterizing visual processing deficits in cerebral adrenoleukodystrophy

C.S. Corre, M. Bamberg, C.R. Bennett, A. Nagy, C.E. Manley, E. Winter, C. Peregoy, D. Kelly, H. Andonian, S. Maciel, C. Becker, L.B. Merabet and F.S. Eichler (United States)

339

388

Translation and validation of the Thai Version of the Japanese Sleep Questionnaire for Preschoolers (JSQ-P)

N. Lueangapapong, J. Chuthapisith and L. Thampratankul (Thailand)

344

392

351

393

Sleep problems among Asian preschool children with neurodevelopmental disorders

M. Tippawanich, L. Thampratankul and J. Chuthapisith (Thailand)

Longitudinal study for the early detection of autism in children with very preterm birth

M. Marín Soro, L. Gisbert Gustemps, H. Boix Alonso, S. Martínez-Maldonado and R. Coronado Contreras (Spain)

Visualizing changes in cerebral hemodynamics in children with ADHD who have discontinued methylphenidate: A pilot study on using brain function for medication discontinuation decisions

K. Kurane, N. Lin, I. Dan, H. Tanaka, Y. Tsuji, W. Ito, S. Yanagida and Y. Monden (Japan)

Case Report

Myelin oligodendrocyte glycoprotein antibody-associated cerebral cortical encephalitis with super-refractory status epilepticus

Y. Shide-Moriguchi, N. Yamamoto, I. Kuki, H. Sakuma and S. Yoshida (Japan)

A case of acute encephalopathy with hyperperfusion detected by arterial spin labelling: Extending spectrum of acute encephalopathy with biphasic seizures and late reduced diffusion

A. Yoshino, T. Omata, K. Abe, K. Sano and J.-i. Takanashi (Japan)

Letter to the Editor

Looks can be deceiving: An appraisal of Sturge Weber syndrome type III case series

V. Anand, K.P. Vinayan and S. Radhakrishnan (India)

Obituary Dr. Milivoj Velickovic Perat

For online access to this journal via your library

Available online at www.sciencedirect.com

ScienceDirect



0387-7804 (2024) 11:46:10;1-8

05017