

7:30-8:30 Educational Seminar Breakfast 2

Chair: Tsuneya Watanabe (Yokohama Stroke & Brain Center)

Mystery of DWI

Kei Yamada (Department of Radiology, Kyoto Prefectural University of Medicine)

Imaging of Abusive Head Trauma

Noriko Aida (Kanagawa Children's Medical Center)

Co-Sponsored by Toshiba Medical Systems Corporation

8:35-9:15 Session 7 “Advanced Technology”

Chairs: Toshiyuki Okubo (Department of Radiology, Teikyo University Chiba Medical Center)

Toshinori Hirai (Diagnostic Radiology, Kumamoto University)

O-30 Evaluation of the noise reduction effect using iterative reconstruction in whole brain CT Perfusion

Kazuhiro Murayama (Department of Radiology, Fujita Health University)

O-31 Contrast dose reduction in CT angiography of the cervical and cerebral arteries by combining three techniques

Kazuhiro Tsuchiya (Department of Radiology, Kyorin University Faculty of Medicine)

O-32 Pattern analysis of cerebrospinal fluid flow in hydrocephalic patients using time-SLIP technique by 3T MRI

Kayoko Abe (Department of Diagnostic Imaging and Nuclear Medicine, Tokyo Women's Medical University)

O-33 The effect of transit delay of the patients with various CVD to perfusion MRI

Yoji Tanaka (Department of Neurosurgery, Tokyo Medical and Dental University)

O-34 Preliminary result of the DCE perfusion analysis for the diagnosis and response evaluation of the brain tumors

Takashi Abe (Department of Radiology, Institute of Health Biosciences, The University of Tokushima Graduate School)

9:15-9:55 Session 8 “Pediatrics, Epilepsy”

Chairs: Jun-ichi Takanashi (Department of Pediatrics, Kameda Medical Center)

Hitoshi Terada (Department of Radiology, Toho University Sakura Medical Center)

O-35 Morphometric MRI study of the brainstem in Down Syndrome

Yuta Fujii (Department of Radiology, Yokohama Rosai Hospital)

O-36 Hyperintensity on the T1 weighted image showing negative correlation to the postnatal age in the newborn brain

Saeka Hori (Department of Radiology, Nara Medical University)

O-37 Anterior temporal lobe white matter abnormal signal (ATLAS) on DIR can be an indicator of seizure focus laterality of TLE

Emiko Morimoto (Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine)

O-38 Hyperperfusion detected by perfusion MRI using Arterial Spin Labeling in patients with partial epilepsy - a correlation with epileptic foci

Kazumi Matsuda (Shizuoka Medical Institute of Epilepsy and Neurological Disorders)

O-39 MRI perfusion imaging using 3D Arterial Spin Labeling in partial epilepsy

Yasukiyo Araki (National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders)

**9:55-10:43 Session 9 “Degenerative / Psychiatric / Traumatic Disorders”
(English Session)**

Chairs: Kazuhiro Tsuchiya (Department of Radiology, Kyorin University Faculty of Medicine)

Gyung-Ho Chung (Chonbuk National University Medical School)

O-40 Different patterns of hypomyelination and cerebellar abnormality between POLR3A and POLR3B mutations

Jun-ichi Takanashi (Department of Pediatrics, Kameda Medical Center)

O-41 Evaluation of the globus pallidus lesion in progressive supranuclear palsy on magnetic resonance imaging

Keita Sakurai (Department of Diagnostic Radiology, Tokyo Metropolitan Medical Center of Gerontology)

O-42 High Signal of the Superior Cerebellar Peduncle on 3D T2 FLAIR
- Comparison between progressive supranuclear palsy and multisystemic atrophy

Keiko Toyoda (Department of Radiology, Teikyo University School of Medicine)

O-43 [18F] Flutemetamol amyloid-beta imaging across the spectrum of Alzheimers disease

Shizuo Hatashita (Department of Neurology, Shonan-Atsugi Hospital)

O-44 Depression: arterial spin labeling magnetic resonance study

Yoko Kaichi (Department of Diagnostic Radiology, Graduate School of Biomedical Sciences, Hiroshima University)

O-45 Usefulness of Gadolinium-Enhanced Fast Fluid Attenuated Inversion Recovery MR Imaging in Patients with Head Injury.

Soo Chin Kim (Department of Radiology, Seoul National University Hospital, Seoul, Korea)

10:45-11:05 Morning Break & Poster Viewing

12:05-12:55 Luncheon Seminar 2

Chair: Shoki Takahashi (Department of Diagnostic Radiology, Tohoku University Graduate School of Medicine)

New Development Trend of Functional Imaging Biomarkers

-For molecular targeted therapy and preclinical diagnosis of neurocognitive disease-

Masafumi Harada (Department of Radiology, Institute of Health Biosciences, The University of Tokushima Graduate School)

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13:05-13:25 JSNR Annual Business Meeting & Research Award (Members Only)

13:25-14:13 Session 13 “Cerebrovascular Diseases 1”

Chairs: Yoko Kato (Department of Neurosurgery, Fujita Health University)

Kanehiro Hasuo (National Center for Global Health and Medicine)

O-62 Comparison of 3D TOF MRA, SWI, and Non-CE 4D MRA in evaluation of arteriovenous shunt disease of CNS

Masahiko Sakamoto (Department of Radiology, Nara Medical University)

O-63 Localization of Disturbed Blood Flow in Intracranial Aneurysms: A Possible Association with Atherosclerosis

Shin-ichiro Sugiyama (Department of Neuroanesthesia, Kohnan Hospital)

O-64 MR-based computational fluid dynamics (CFD) for an aneurysmal formation of a basilar artery

Haruo Isoda (Radiological Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine)

O-65 Usefulness of velocity profiles based on 3D cine PC MR used as boundary conditions for CFD of an intracranial aneurysm

Haruo Isoda (Radiological Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine)

O-66 MRI flow based computational fluid dynamics in cerebral aneurysm: comparison with modeled and patient-specific boundary conditions

Yoshiyuki Watanabe (Department of Radiology, Osaka University)

O-67 Flow pattern in the aneurysm with coils in it

Kazuaki Fukasaku (Computational Biomechanics, RIKEN (The Institute of Physical and Chemical Research))

14:13-15:01 Session 14 “Cerebrovascular Diseases 2”

Chairs: Masayuki Ezura (Department of Neurosurgery, NHO Sendai Medical Center)
Haruo Isoda (Department of Radiological and Medical Laboratory Science,
Nagoya University Graduate School of Medicine)

O-68 Progression in patients with carotid stenosis evaluated by MRI plaque imaging (MR-PI)

Takeshi Uwatoko (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

O-69 MR angiography in acute thalamic infarction

Chihiro Inatsuki (Department of Radiology, Ehime Prefectural Central Hospital)

O-70 Evaluation of Intracranial Dural Arteriovenous Fistulas: Comparison of MR Angiography at 3T with DSA

Minako Azuma (Department of Diagnostic Radiology, Graduate School of Medical Sciences, Kumamoto University)

O-71 3T MR diagnosis method of moyamoya disease, using cisternal moyamoya vessels

Takeshi Sawada (Department of Diagnostic Imaging and Nuclear Medicine, University of Kyoto)

O-72 Arterial spin labeling magnetic resonance imaging (ASL-MRI) for patients with Moyamoya disease: a preliminary report.

Shoko Hara (Department of Functional Neurosurgery, Tokyo Medical and Dental University)

O-73 Clinical usefulness of SPACE imaging on MRI in patients with suspected cerebral artery dissection

Naomi Morita (Department of Radiology, National Cerebral and Cardiovascular Center)

15:01-15:41 Session 15 “Demyelinating · Inflammatory Diseases, Spine”

Chairs: Kouichirou Okamoto (Department of Neurosurgery, Brain Research Institute Niigata University)

Hajime Kitagaki (Shimane University Faculty of Medicine Department of Radiology)

O-74 Cortical lesions in multiple sclerosis evaluated with 3D DIR, FLAIR and T1-TFE

Masayuki Maeda (Department of Radiology, Mie University School of Medicine)

O-75 Pachymeningeal involvement in POEMS syndrome

Atsuhiko Sugiyama (Department of Neurology, Chiba University School of Medicine)

O-76 Usefulness of high-resolution 3D-PSIF DWI in the diagnosis of cholesteatomas on 3T MRI

Takao Kodama (Department of Radiology, University of Miyazaki)

O-77 Usefulness of High-resolution Three-dimensional Diffusion-Weighted Imaging of Middle Ear Cholesteatoma: Compared to Single-shot Echo-planar Diffusion-weighted Imaging

Koji Yamashita (Department of Clinical Radiology, Graduate School of Medical Sciences, Kyushu University)

O-78 Intravertebral pneumatocysts and intradiscal vacuums in the cervical spine.

Yuko Matsukubo (Department of Radiology, Kinki University School of Medicine)

15:45-16:30 Film Interpretation

Chairs: Toshi Abe (Department of Radiology, Kurume University)

Hidetsuna Utsunomiya (Department of Diagnostic Radiology, Momochihama Fukuoka Sanno Hospital)

Etsushi Iida (Department of Radiology, Yamaguchi University)

Akio Hiwatashi (Department of Clinical Radiology, Kyushu University)

Yoshiko Sagara (Department of Radiology, Tsurumi Hospital)

Tomoyuki Noguchi (Department of Radiology, Saga University)

Mikako Enokizono (Department of Radiology, Nagasaki University)

Takao Kodama (Department of Radiology, University of Miyazaki)

Koji Takumi (Department of Radiology, Kagoshima University)

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16:30-16:40 Closing Remarks

8:35-9:07 Session 10 “Brain Tumors 3 (Radiation Therapy)”

Chairs: Shigeru Nishizawa (Department of Neurosurgery, University of Occupational and Environmental Health)
Reiichi Ishikura (Hyogo College of Medicine Department of Radiology)

- O-46 Multisession Cyberknife Radiosurgery for paraganglioma of skull base and head and neck
Shinichiro Miyazaki (Department of Radiation Oncology, Shinyurigaoka General Hospital)
- O-47 Treatment of orbital lesions using the Accuray Cyberknife system
Shinichiro Miyazaki (Department of Radiation Oncology, Shinyurigaoka General Hospital)
- O-48 Hypo-fractionated stereotactic radiotherapy for foramen magnum meningioma
Kenichi Sakamoto (Department of Neurosurgery, Shinyurigaoka General Hospital)
- O-49 Delayed Complications (DCs) After Stereotactic Radiosurgery (SRS) for Brain Metastases (BMs)
Masaaki Yamamoto (Katsuta Hospital Mito GammaHouse)

9:07-9:55 Session 11 “Neurointervention 2 (CAS, etc)”

Chairs: Shigeru Miyachi (Department of Neurosurgery, Nagoya University Graduate School of Medicine)
Satoshi Iwabuchi (Department of Neurosurgery, Toho University Ohashi Medical Center)

- O-50 Clinical results of the mechanical embolectomy (Merci/Penumbra) in patients with acute MCA occlusion
Morio Nagahata (Department of Diagnostic and Interventional Neuroradiology, Stroke Center, Yamagata City Hospital SAISEIKAN)
- O-51 Evaluation of carotid stenosis by 3-T MRI plaque imaging; therapeutic strategy and operative findings
Kei Harada (Department of Neuro-Vascular Surgery, Fukuoka Wajiro Hospital)
- O-52 Evaluation of carotid plaque imaging by histological component: the comparison between non-gated MR imaging and IB-IVUS
Morito Hayashi (Department of Neurosurgery, Toho University Ohashi Medical Center)
- O-53 Periprocedural ischemic complication in carotid artery stenting: Comparison between open cell stent and closed cell stent
Katsutoshi Takayama (Department of Radiology and Intervental Neuroradiology, Ishinkai Yao General Hospital)

O-54 Management of restenosis after carotid artery stenting

Haruka Miyata (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

O-55 Vein of Galen malformation link with RASA1 mutation

Yuo Iizuka (Department of Radiology, Ohashi Medical Center Toho University)

9:55-10:43 Session 12 “Neurointervention 3 (Aneurysms, dAVF)”

Chairs: Ichiro Nakahara (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

Yuo Iizuka (Department of Radiology, Ohashi Medical Center Toho University)

O-56 Experiences of stent-supported coil embolization for cerebral aneurysms with Enterprise vascular reconstruction device

Toshio Higashi (Department of Neurosurgery, Faculty of Medicine, Fukuoka University)

O-57 Efficacy of semi-jailing technique during coiling for cerebral aneurysm using Enterprise stent

Katsutoshi Takayama (Department of Radiology and Interventional Neuroradiology, Ishinkai Yao General Hospital)

O-58 Development of Newly Hybrid Stent for Intracranial Aneurysms
-Examination of Flow Diversion Effects Using CFD-

Keiko Irie (Department of Neurosurgery, Fujita Health University)

O-59 Experiences of endovascular treatment for ruptured cerebral aneurysm as first-line therapy with aggressive hematoma removal using neuroendoscope

Mitsutoshi Iwaasa (Department of Neurosurgery, Faculty of Medicine, Fukuoka University)

O-60 Transvenous embolization of anterior condylar confluence dural AVF

Wataro Tsuruta (Department of Neurosurgery, Institute of Clinical Medicine, University of Tsukuba)

O-61 Historical change and perspective of the treatment strategy for dural arteriovenous fistula

Shigeru Miyachi (Department of Neurosurgery, Nagoya University Graduate School of Medicine)

10:45-11:05 Morning Break & Poster Viewing

11:05-11:55 International Round-table Discussion (*English Session*)

Chairs: Yukunori Korogi (Department of Radiology, University of Occupational and Environmental Health)
Wan-Yuo Guo (Department of Radiology, Taipei Veterans General Hospital, Taiwan)

“International Collaboration in Neuroradiology Research”

Discussor: Mauricio Castillo (University of North Carolina School of Medicine, USA)

Wan-Yuo Guo (Taipei Veterans General Hospital, Taiwan)

Sang Joon Kim (Asan Medical Center, University of Ulsan College of Medicine, Korea)

E. Turgut Tali (Gazi University School of Medicine, Turkey)

Kei Yamada (Kyoto Prefectural University of Medicine, Japan)

**13:00-16:40 Intensive Educational Course for Young Neuroradiologists
(Japanese Only)**

Part 1 Chair: Toshihiro O'uchi (Department of Radiology, Kameda Medical Center)

Profiling in basic neuropathology

Mitsunori Yamada (National Hospital Organization, Saigata National Hospital)

Basic knowledge for imaging diagnosis of brain tumors

Toshinori Hirai (Department of Diagnostic Radiology, Graduate School of Medical Sciences, Kumamoto University)

Neurodegenerative diseases

Aya M. Tokumaru (Department of Diagnostic Radiology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology)

Inflammatory Demyelinating Diseases

Yukio Miki (Department of Radiology, Osaka City University)

Part 2

Chair: Yuko Ono (Department of Diagnostic Imaging and Nuclear Medicine,
Tokyo Women's Medical University)

Cerebral infarction: Clinical classification and imaging diagnosis

Masahiro Ida (Department of Radiology, Tokyo Metropolitan Ebara Hospital)

Pediatric neuroimaging diagnosis

Hiroshi Oba (Department of Radiology, Teikyo University Hospital)

Imaging of the Spinal cord

Akira Yagishita (Department of Neuroradiology, Tokyo Metropolitan Neurological Hospital)

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11:05-11:30 Poster 9 “Anatomy, Metabolic Disease”

Chair: Koichi Takano (Department of Radiology, Fukuoka University Faculty of Medicine)

- C-01 Three cases of infraoptic course of anterior cerebral artery incidentally detected on MRI
Masayuki Yamura (Department of Radiology, Kumamoto Regional Medical Center)
- C-02 A case of Posterior Inferior Cerebellar Artery Supplied by the Jugular Branch of the Ascending Pharyngeal Artery
Satoshi Iihoshi (Department of Neurosurgery, Sapporo Medical University School of Medicine)
- C-03 A case of hypoglycemic encephalopathy: distribution change on DWI from extensive cerebral white matter to gray matter
Susumu Kobayashi (Department of Radiology, Nagoya City University Graduate School of Medical Sciences)
- C-04 Ictal focal hyperperfusion demonstrated by arterial spin-labeling perfusion MRI in partial epilepsy status
Makoto Oishi (Department of Neurosurgery, Brain Research Institute, Niigata University)
- C-05 Pituitary MR imaging findings of primary hemochromatosis: Comparison of secondary.
Kenichi Suzuki (Department of Radiology, Toho University Omori Medical Center)

11:30-11:55 Poster 10 “Spine, Other Tumors”

Chair: Satoshi Terae (Department of Diagnostic and Interventional Radiology, Hokkaido University Hospital)

- C-06 A man of NMO spectrum disorder manifesting intractable hiccup and nausea with dorsomedial medullary lesion
Takayuki Kosaka (Department of Neurology, National Hospital Organization Kumamoto Medical Center)
- C-07 A case of intramedullary spinal cord hamartomatous lesion associated with neurofibromatosis type 1
Toshiki Nakane (Department of Radiology, Nagoya University Graduate School of Medicine)
- C-08 Characteristic MRI findings of spinal epidural/subdural hematoma
Yoshie Yahagi (Department of Diagnostic Radiology, Yamagata University Faculty of Medicine)
- C-09 Three cases of spinal subependymoma
Kaeko Kitamura (Department of Radiology, KKR Otemae Hospital)

- C-10 Superselective intra-arterial chemotherapy with concurrent radiotherapy for advanced parotid carcinoma; a case report.

Nobuo Kashiwagi (Department of Radiology, Kinki University School of Medicine, Osakasayama-city)

- C-11 Cerebral falx germ cell tumor mimicking meningioma

Yoshihito Kadota (Department of Radiology, Faculty of Medicine, Miyazaki University)

11:05-11:30 Poster 11 “Brain Tumors 1”

Chair: Mika Kitajima (Department of Diagnostic Radiology, Kumamoto University)

- C-12 Primary spinal atypical teratoid/rhabdoid tumor with cerebellopontine angle recurrence 8-years after treatment

Mai Miyagawa (Department of Radiology, Mie University School of Medicine)

- C-13 Atypical teratoid rhabdoid tumor (ATRT) with a wavy band-like enhancement : A case report.

Shinya Ikeda (Department of Radiology, Showa University Fujigaoka Hospital)

- C-14 A case of Ganglioglioma

Akira Higashiyama (Osaka Medical Center for Cancer and Cardiovascular Diseases)

- C-15 A girl with pituitary germinoma diagnosed by thickened stalk on follow-up MRI 15 months after the onset of diabetes insipidas

Koichiro Nomura (Chigasaki Municipal Hospital)

- C-16 Inflammatory myofibroblastic tumor at the pineal region: a case report

Satoshi Nakajima (Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine)

- C-17 A case of bilateral Lhermitte-Duclos disease

Atsushi Yoshida (Department of Diagnostic Radiology, Hokkaido University School of Medicine)

11:30-11:55 Poster 12 “Brain Tumors 2”

Chair: Tomoyuki Noguchi (Department of Radiology, Saga University)

- C-18 A case of extraventricular anaplastic ependymoma mimicking an extraaxial hypervascular tumor

Yuko Omori (Department of Radiology, Nihon University School of Medicine)

C-19 Imaging of intraaxial brain tumor; difficulties in differential diagnosis from intraventricular tumor

Sonoko Oshima (Department of Diagnostic Radiology, Osaka Red Cross Hospital)

C-20 A case of lymphomatosis cerebri: radiology/pathology correlation

Takayuki Katsuura (Department of Radiology, Hyogo College of Medicine)

C-21 A case of small cell glioblastoma

Kaoru Sumida (Department of Radiology, the University of Tokyo Hospital)

C-22 A rare case which was observed natural course of glioblastoma; from primary atypical findings to typical findings as glioblastoma

Eri O'uchi (Department of Radiology, Kameda Medical Center)

11:05-11:30 Poster 13 “Cerebrovascular Diseases 1”

Chair: Makoto Ochi (Department of Radiology, Nagasaki Kita Hospital)

C-23 Acute accessory middle cerebral artery infarction: a case report

Tetsuro Sekine (Department of Radiology, Nippon Medical School of Medicine)

C-24 Cancel

C-25 A case of intracranial hemorrhage after lumbar spinal surgery

Kazuaki Nakashima (Department of Radiology, National Hospital Organization Nagasaki Medical Center)

C-26 Terson's syndrome -Case report and review of the literature-

Yoshihiro Toyama (Department of Radiology, The Faculty of Medicine, Kagawa University)

C-27 Isolated dissection of the posterior inferior cerebellar artery: clinical characteristics and radiological findings in 4 cases

Minoru Morikawa (Department of Radiology, Nagasaki University Hospital)

C-28 Reversible Cerebral Vasoconstriction in an elderly patient

Noriko Kitamura (Department of Radiology, Toho University Sakura Medical Center)

11:30-11:55 Poster 14 “Cerebrovascular Diseases 2”

Chair: Minoru Morikawa (Department of Radiology, Nagasaki University Hospital)

- C-29 Three cases of reversible vasoparalysis without hyperperfusion after carotid artery stenting
Yutaka Fukushima (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)
- C-30 Serial changes of acute crossed cerebellar diaschisis on 3D pseudo-continuous arterial spin labeling after endovascular mechanical thrombectomy: a case report
Ayumi Kato (Center for Clinical Residency Program, Tottori University Hospital)
- C-31 Transient diffusion weighted image high signal in a case of sinus thrombosis
Kazuaki Fukasaku (Computational Biomechanics, RIKEN (The Institute of Physical and Chemical Research))
- C-32 Neurosarcoidosis presenting with cerebral infarction : 2 patients report
Yasushi Kita (Department of Neurology Service, Hyogo Brain and Heart Center at Himeji)
- C-33 A case of acute cerebral infarction due to moyamoya syndrome associated with Graves' disease
Akio Tsukabe (Department of Diagnostic and Interventional Radiology, Osaka University Graduate School of Medicine)
- C-34 Coexistence of intraosseous dAVF and intraventricular AVM
Masakazu Okawa (Department of Neurosurgery, Faculty of Medicine, University of Fukuoka)

11:05-11:30 Poster 15 “Pediatrics”

Chair: Kumiko Ando (Department of Radiology, Hyogo College of Medicine)

- C-35 Neuroradiological findings of encephalocraniocutaneous lipomatosis
Azusa Watanabe (Department of Radiology, University of Tsukuba Hospital)
- C-36 Two cases of suprasellar arachnoid cyst associated with hypothalamic hamartoma
Tetsuhiko Okabe (Department of Radiology, Kanagawa Children's Medical Center)
- C-37 CNS lesions in a patient with Charcot-Marie-Tooth disease type 1A
Kazutoshi Fujita (Department of Radiology, Tokyo Metropolitan Children's Medical Center)
- C-38 COL4A1 mutation: report of three infants
Tetsu Niwa (Department of Radiology, Tokai University School of Medicine)

C-39 A case of PDHC deficiency with 5-year follow up of MRI

Yusuke Kawanaka (Department of Radiology, Hyogo College of Medicine)

C-40 MR finding of Human Herpesvirus-6-Associated encephalopathy after allogeneic bone marrow transplant in acute myeloid leukemia: about 1 PCR-proved pediatric case.

Mata Mbemba Daddy (Department of Diagnostic Radiology, Tohoku University Graduate School of Medicine)

11:30-11:55 Poster 16 “Neurointervention”

Chair: Akiyo Sadato (Department of Neurosurgery, Fujita Health University)

C-41 Technical and clinical problems about treatment of subclavian artery stenosis.

Tomoo Ohashi (Department of Neurosurgery, Tokyo Medical University Ibaraki Medical Center)

C-42 Peri-stent aneurysm formation following stenting for stenotic intracranialvertebral artery dissection: a report of two cases successfully treated with coilembolization

Hideki Ishimaru (Department of Radiology, National Hospital Organization, Nagasaki Medical Center)

C-43 Endovascular and surgical treatment for bilateral internal jugular vein stenosis

Ryota Ishibashi (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

C-44 Stenting for common carotid artery stenosis using a pull-through technique

Koichi Haraguchi (Department of Neurosurgery, Hakodate Shintoshu Hospital)

C-45 Combined surgical and endovascular treatment of cervical internal carotid aneurysm associated with Marfan syndrome

Tsuyoshi Ohta (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

C-46 Successful emergent endovascular treatment for transverse-sigmoid dural arteriovenous fistula manifesting progressive neurological worsening: case report

Sadayoshi Watanabe (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

Educational Exhibition

- E-01 Communications between cavum septi pellucidi and third ventricle
Toshiaki Akashi (Department of Radiology, Nara Medical University)
- E-02 The External Carotid System -Concept of Functional Vascular Layer-
Toshi Abe (Department of Radiology, Kurume University School of Medicine)
- E-03 Brain perfusion imaging of posterior reversible encephalopathy syndrome with 3D Arterial Spin Labeling: 4 cases review
Hiroto Takahashi (Department of Radiology, Kinki University Faculty of Medicine)
- E-04 Cranial intradural chordoma and ecchordosis physaliphora
Shoichi Inagawa (Department of Radiology, Niigata University Medical and Dental Hospital)
- E-05 Imaging features of Ecchordosis physaliphora on fast imaging employing steady-state acquisition (FIESTA)
Chihiro Chihara (Department of Radiology, University of Occupational and Environmental Health)
- E-06 Prediction of Meningioma Consistency: a quantitative study
Keita Watanabe (Department of Radiology, University of Occupational and Environmental Health)
- E-07 Tumors and tumor like lesions of the skull bone: Imaging features on CT and MRI
Matakazu Furukawa (Department of Radiology, Yamaguchi University Graduate School of Medicine)
- E-08 Relationship between High Signals and Age of Hemorrhage in Atheromatous Plaque of Carotid Artery
Naoaki Yamada (Department of Radiology, National Cerebral and Cardiovascular Center)
- E-09 MRI diagnosis of congenital malformation of the central nervous system (CNS), including in the fetus
Hidetsuna Utsunomiya (Department of Diagnostic Radiology, Momochihama Fukuoka Sanno Hospital)
- E-10 MRI findings of focal cortical dysplasia
Yasuhiro Nakata (Department of Radiology, National Center Hospital of Neurology and Psychiatry)
- E-11 Paravertebral Space -One of Access route in Intervention -
Koki Kato (Department of Radiology, Saiseikai Utsunomiya Hospital)
- E-12 Cerebellar tonsil herniation: Its diverse pathogeneses
Hiroki Mukai (Department of Radiology, Chiba University Hospital)