Program

Saturday, March 6

Poster Room (402 B+C+D)

08:30-09:00  Poster Session I-1  “Basic Research 1”
Chairpersons: Isao Date (Japan)
               Kuo-Sheng Hung (Taiwan)
               Lokendra Singh (India)

P-1  In-vitro observations on necrotic cellular uptake of water and release of intracellular potassium
Youn-Kwan Park
Neurosurgery, Korea University Guro Hospital, KOREA

P-2  The expression and function of molecular complexes: GluR-Homer-Shank-IP3R in neurons associated with traumatic brain injury in rats
Zhou Fei
Department of Neurosurgery, Xijing Hospital, Fourth Military Medical University, CHINA

P-3  Notch pathway plays a pivotal role in hydraulic combat rat model
Rongcai Jiang
Tianjin Neurological Institute; Department of Neurosurgery, Tianjin Medical University General Hospital, CHINA

P-4  Minocycline attenuates both OGD-induced HMGB1 release and HMGB1-induced cell death in ischemic neuronal injury in PC12 cells
Kiyoshi Kikuchi
Department of Neurosurgery, Omuta City General Hospital, JAPAN

P-5  Adult neurogenesis for repairing cognitive function after different graded traumatic hippocampus injury
Xinyu Yang
Tianjin Neurological Institute and Department of Neurosurgery of Tianjin Medical University General Hospital, CHINA

09:00-09:30  Poster Session I-2  “Basic Research 2”
Chairpersons: Toshiki Yoshimine (Japan)
               Sang Ryong Jeon (Korea)
               Jian Ning Zhang (China)

P-6  Effects of deferoxamine on intracerebral hemorrhage-induced brain injury in aged rats
Masanobu Okauchi
Department of Neurosurgery, Kagawa University, JAPAN

P-7  Effect of decompressive craniectomy on aquaporin-4 expression after lateral fluid-percussion injury in rats
Satoshi Tomura
National Defense Medical College, JAPAN
P-8 Induction of neuronal proliferation in the dentate gyrus of aged rats by grafted human neural stem cells
Dong-Hyuk Park
Korea University Medical Center, KOREA

P-9 Regenerative medicine in traumatic brain injury
Takao Yasuhara
Okayama University Graduate School of Medicine, JAPAN

09:30-10:00 Poster Session I-3 “Basic Research 3”
Chairpersons: Tatsuro Kawamata (Japan) Hirosuke Fujisawa (Japan) Virendra Deo Sinha (India)

P-10 Experimental rat model of chronic compressive spinal cord
Jang Bo Lee
1Krembil Neuroscience Research Centre, Toronto Western Research Institute, University of Toronto, CANADA

P-11 Contribution of nitric oxide to neuropathic pain in two types of SCI animal models
Young Wook Yoon
Department of Physiology, Korea University College of Medicine, KOREA

P-13 Therapeutic effect of Wnt secreting fibroblast implantation in spinal cord injury of rat
Sang Ryong Jeon
Department of Neurological Surgery, ASAN Medical Center, KOREA

10:00-10:30 Poster Session I-4 “ICU Management 1”
Chairpersons: Hiroyuki Yokota (Japan) Yashbir Dewan (India) Sai Zhang (China)

P-15 A review of ICP monitoring in the acute management of severe head injured patients not requiring surgical intervention. A prospective single centre review
Vairavan N
University of Malaya, MALAYSIA

P-16 Continuous measurements of cerebral perfusion and brain metabolism in severe head injury
The usefulness of microdialysis for determination of optimal cerebral perfusion pressure
Shoji Yokobori
Department of Emergency and Critical Care Medicine, Nippon Medical School, JAPAN

P-17 Prediction of prognosis in long-term unconscious patients with somatosensory evoked potentials (SEPs) after traumatic brain injury
Xiangyu Wang
Department of Neurosurgery, Zhujiang Hospital, Southern Medical University, CHINA
P-18  Cerebral blood flow and metabolism in pericontusional regions following traumatic brain injury: using an 15O2 positron emission tomography study  
Nobuyuki Kawai  
Department of Neurological Surgery, Faculty of Medicine, Kagawa University, JAPAN

P-19  Progression of traumatic intraparenchymal hemorrhage (IPH) - in the early post -injury period  
RIPAS hospital - BRUNEI darussalam  
Paraneetharan  
Ripas Hospital, BRUNEI DARUSSALAM

10:30-11:00 Poster Session I-5  “Surgical Treatment 1 / Neuroimaging”  
Chairpersons: Takuo Hashimoto (Japan)  
Seung-Chyul Hong (Korea)  
Deepak Agrawal (India)

P-20  Recovered viability of neurons disclosed by Iodine-123-iomazenil SPECT following traumatic brain injury  
Hiroyasu Koizumi  
Department of Neurosurgery, Yamaguchi University School of Medicine, JAPAN

P-21  APOE genotype and neuropsychological outcome in traumatic brain injury  
Pieter, M.S.  
Department of Neurosciences, School of Medical Sciences, Universiti Sains Malaysia, MALAYSIA

P-22  Impaired self-awareness in diffuse axonal injury; a functional magnetic resonance imaging study  
Masaharu Maruishi  
Higher Brain Function Center, Hiroshima Prefectural Rehabilitation Center, JAPAN

P-23  Efficacy of intracranial pressure monitoring and hypothermia therapy for progressive traumatic intradural mass lesions.  
Kyoko Unemoto  
Dept. of Critical Care Medicine, Musashikosugi Hospital, Nippon Medical School, JAPAN

P-24  Management of multiple contusional hemorrhages by decompressive craniectomy without evacuation of hematoma  
Sui-Sum Kung  
Division of Neurosurgery, Department of Surgery, Kaohsiung Medical University Hospital, TAIWAN

11:00-11:30 Poster Session I-6  “Surgical Treatment 2”  
Chairpersons: Shiro Kobayashi (Japan)  
Keki E. Turel (India)  
Joni Wahyuhadi (Indonesia)

P-25  The usefulness of hinge craniotomy  
Hyun Ho Jung  
Department of Neurosurgery, Wonju Medical College, Yonsei University, KOREA
P-26  Comparative survey on complications induced by decompressive craniectomies after traumatic brain injury
Xuejun Yang
Department of Neurosurgery, Tianjin Medical University General Hospital, CHINA

P-27  Does difference in the storage method of bone flaps after decompressive craniectomy affect the incidence of surgical site infection after cranioplasty?
Joji Inamasu
Saiseikai Utsunomiya Hospital, JAPAN

P-28  Results of early laminoplasty in acute cervical cord injury
Myunghee Lee
Department of Neurosurgery, Dongsan Medical Center, Keimyung University School of Medicine, KOREA

P-29  Synex™ expandable cage for vertebral body replacement in the thoracolumbar spine: analysis of an early clinical and radiological outcome
Hong-Joo Moon
Department of Neurosurgery, Korea University Medical Center, Guro Hospital, KOREA

08:30-09:00 Poster Session II-1 “Epidemiology 1”
Chairpersons: Tetsuya Sakamoto (Japan)
Tamotsu Miki (Japan)
Vo Van Nho (Vietnam)

P-30  A new classification of head injury -the work group report-
Takashi Araki
Department of Emergency and Critical Care Medicine, Nippon Medical School, JAPAN

P-31  Evaluation of outcome prediction model based on prognostic indicators for severe traumatic brain injury
Jiro Iba
Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, JAPAN

P-32  Role of head injury clinical finding quantification as a predictor of intracranial hemorrhagic lesion which detected using CT-scan
Achmad Adam
Department of Neurosurgery, Faculty of Medicine, Padjadjaran University, INDONESIA

P-33  The AIS 2005; what advance do the major revision bring to head injury descriptors?
Takahiro Ohnuki
Teikyo University School of Medicine Department of Emergency Medicine Trauma and Resuscitation Center, JAPAN

P-34  Investigation of the prognosis of the trauma patients with head abbreviated injury score 3 and above
Yumie Honda
Tokai University Hospital, JAPAN
09:00-09:30  Poster Session II-2  “Epidemiology 2”
Chairpersons: Takeki Ogawa (Japan)
Motonobu Kameyama (Japan)
Harjinder Singh Bhatoe (India)

P-35  Predicting outcome after traumatic brain injury: the role of age and glasgow coma scale motor score
Lei Ping
Department of Neurosurgery, General Hospital of Tianjin Medical University, CHINA

P-36  Pediatric patients with severe head injury in Japan Neurotrauma Data Bank
Jo Haraoka
The Department of Neurosurgery, Tokyo Medical University, JAPAN

P-37  Analysis of bicycle-related head injury among young people
Hajime Ono
St. Marianna University, School of Medicine, JAPAN

P-38  Report of serious head injuries during the past 17 years in the Kanto collegiate American football league in Japan.
Haruo Nakayama
Toho University Ohashi Medical Center Neurosurgery, JAPAN

09:30-10:00  Poster Session II-3  “Epidemiology 3”
Chairpersons: Toshiaki Abe (Japan)
Takeshi Maeda (Japan)
Watanyoo Prachayananont (Thailand)

P-39  Sports-related head and cranio-maxillofacial injuries in Japan: a retrospective study of 187 patients
Masahiro Tado
Department of Neurological Surgery, Nihon University School of Medicine, JAPAN

P-40  Head injury during skiing and snowboarding
Osamu Fukuda
Department of Neurosurgery, Saito Memorial Hospital, JAPAN

P-41  Elderly abuse and neglect in Japan
Yutaka Shigemori
Department of Neurological Surgery, Nihon University School of Medicine, JAPAN

P-42  Criteria for applying imaging diagnosis and initial management for head trauma in infants
Naoto Shiomi
Emergency Medical Care Center, Saiseikai Shiga Hospital, JAPAN
10:00-10:30  Poster Session II-4  “Case Reports I”
Chairpersons: Akira Sato (Japan)
            Ben Selladurai (Malaysia)
            Pham Ty (Vietnam)

P-43  The surgical management of a penetrating orbitocranial injury reaching the brain stem: a case report
      Baiyun Liu
      Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University;
      Beijing Neurosurgical Institute, Department of Neurotrauma, APGH, CHINA

P-44  Combined brachial plexus, spinal and vertebral artery injury
      Haroon Manadath Pillay
      Ripas Hospital, BRUNEI

P-45  Penetrated ocular injury through the optic canal: case report
      Takashi Kon
      Department of Neurosurgery, Niigata Prefectural Central Hospital, JAPAN

P-46  Acute epidural hematoma caused by contrecoup injury -case report and review of literatures-
      Yoshiyuki Takada
      Division of Neurosurgery, Department of Neurological Surgery, Nihon University School of Medicine, JAPAN

P-47  Organized hematoma in patients with a history of head trauma and craniotomy
      Kwan Ho Park
      Seoul Veterans Hospital, KOREA

10:30-11:00  Poster Session II-5  “Case Reports 2”
Chairpersons: Kaoru Kurisu (Japan)
            Yoko Kato (Japan)
            Zamzuri Idris (Malaysia)

P-48  Cervical disc herniation producing acute brown-sequard syndrome
      Jong-Tae Kim
      Department of Neurosurgery, Incheon St. Mary’s Hospital, The Catholic University of Korea, College of Medicine, KOREA

P-49  Infantile chronic subdural hematoma infected by escherichia coli
      Satoshi Tsutsumi
      Department of Neurological Surgery, Juntendo University Urayasu Hospital, JAPAN

P-52  Spontaneous intracranial hypotension presented with bilateral chronic subdural hematoma and subarachnoid hemorrhage: surgery precipitated brainstem herniation
      Jong Hyun Kim
      Department of Neurosurgery, Korea University Guro Hospital, KOREA
11:00-11:30 Poster Session II-6 “Case Reports 3 / Specific Treatment”
Chairpersons: Mitsunori Matsumae (Japan)
Haroon Manadath Pillay (Brunei)
Kum Whang (Korea)

P-53 Cerebrospinal fluid circulation abnormality may be involved in the chronic post-traumatic headache
Kiyoshi Takagi
Department of Neurosurgery, Ohtakanomori Hospital, JAPAN

P-55 Acute spinal subdural hematoma presenting with spontaneously resolving hemiplegia
Inbo Han
Department of Neurosurgery, CHA University, KOREA

P-56 Middle meningeal artery embolization for refractory chronic subdural hematoma
Shingo Yonezawa
Department of Neurosurgery, Aomori Central Prefecture Hospital, JAPAN

P-57 Motor cortex stimulation (MCS) for central pain following traumatic brain injury (TBI)
Byung-Chul Son
Department of Neurosurgery, St. Vincent's Hospital, The Catholic University of Korea, KOREA

P-58 Peripheral nerve stimulation for chronic pain from post-traumatic neuralgia of ulnar nerve (CRPS type II), its long-term (24 months) result
Byung-Chul Son
Department of Neurosurgery, St. Vincent's Hospital, The Catholic University of Korea, KOREA

Room A (501 A+B)
12:00-12:50 Luncheon Seminar A
Chairperson: Takehide Onuma (Japan)
Neurosurgical Perspectives in Pediatric Head Injury in Japan: Up Date
Takashi Araki (Department of Neurosurgery, National Center for Child Health and Development, JAPAN)
Sponsor: Unimedic Inc. / OSTEOMED

13:00-15:15 Oral Session 1 “Epidemiology”
Chairpersons: Norio Nakamura (Japan)
George J Dohrmann (USA)
Beny Atmadja Wirjomartani (Indonesia)
Kyeong-Seok Lee (Korea)

O-1 Brain trauma data-bank system in Japan
Takeki Ogawa
Jikei University School of Medicine, Dept of Emergency Medicine, JAPAN
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Author(s)</th>
<th>Institution(s)</th>
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<tbody>
<tr>
<td>O-2</td>
<td>Analysis of poor prognostic factors in severe head injured patients based on the Japan Neurotrauma Data Bank</td>
<td>Masahiko Uzura</td>
<td>Department of Emergency and Disaster Medicine, Juntendo University Shizuoka Hospital, JAPAN</td>
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<tr>
<td>O-3</td>
<td>Epidemiological study of head injury in Miyagi Neurotrauma Data Bank. Age, cause of injury, pathophysiology and outcome</td>
<td>Motonobu Kameyama</td>
<td>Emergency &amp; Critical Care Center, Sendai City Hospital, JAPAN</td>
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<td>O-4</td>
<td>A retrospective study on the diagnoses and treatment of 4462 cases with severe traumatic brain injury</td>
<td>Zhou Fei</td>
<td>Department of Neurosurgery, Xijing Hospital, Fourth Military Medical University, CHINA</td>
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<td>O-5</td>
<td>Prediction of awakening and evaluation of evaluation in long-term unconscious patients after traumatic brain injury</td>
<td>Xiangyu Wang</td>
<td>Department of Neurosurgery, Zhujiang Hospital, Southern Medical University, CHINA</td>
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<td>O-6</td>
<td>Air medical transport of patients with head injury</td>
<td>Shin-Han Tsai</td>
<td>Graduate Institute of Injury Prevention and Control, Taipei Medical University, Taipei Medical University-Shuang Ho Hospital, National Aeromedical Approval Center (NAAC), Department of Health, Executive Yuan, TAIWAN</td>
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<td>O-7</td>
<td>Improving outcome in head trauma, in developing countries</td>
<td>Virendra Deo Sinha</td>
<td>S MS Medical College, INDIA</td>
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<td>O-8</td>
<td>Epidemiology of head injury in Bandung area in 2008</td>
<td>Beny Atmadja Wirjomartani</td>
<td>Department of Neurosurgery, Faculty of Medicine, Padjadjaran University, INONESIA</td>
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<td>O-9</td>
<td>Head injury in Myanmar</td>
<td>Kyi Hlaing</td>
<td>Department of Neurosurgery, Yangon General Hospital, MYANMAR</td>
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**15:30-17:45**  **Oral Session 2  “ICU Management 1”**

Chairpersons: Michiyasu Suzuki (Japan)  Dong-Ho Kim (Korea)  Mohammad Tariq Khan (Pakistan)  Kyi Hlaing (Myanmar)

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<td>O-10</td>
<td>Continuous monitoring of intracranial hemodynamics in the major arteries and brain tissue utilizing a transducer holder (Sonopod) for transcranial color duplex sonography</td>
<td>Toshiyuki Shioigai</td>
<td>Departments of Clinical Neurosciences, Kyoto Takeda Hospital, JAPAN</td>
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O-11  An report of intracranial pressure continuously monitoring on 6050 cases of patients with traumatic brain injury
Sai Zhang
Dept. of Neurological Surgery, Affiliated Hospital of the Chinese People’s Armed Police Forces Medical University, CHINA

O-12  Result of consecutive CT monitoring instead of initial ICP monitoring in severe traumatic brain injury
Hong-Joo Moon
Department of Neurosurgery, Korea University Medical Center, Guro Hospital, KOREA

O-13  Comparison of ICP monitoring versus repeat CT scan in the acute management of severely injured patients not requiring surgical intervention. A prospective two centre review
Devaraj Pancharatnam
University of Malaya, MALAYSIA

O-14  Hypothermia is effective for severe traumatic brain injury --- ?
Michiyasu Suzuki
Department of Neurosurgery, Yamaguchi University Graduate School of Medicine, JAPAN

O-15  Hyperemia prior to acute brain swelling during rewarming after moderate hypothermia in severely head injured patients
Kaoru Kurisu
Department of Neurosurgery, Hiroshima University Hospital, JAPAN

O-16  Clinical trial of intravascular cooling system for reliability and security in severe traumatic brain injury
En-He Liang
Department of Neurosurgery, Huanhu Hospital, CHINA

O-17  Effect of mild hypothermia on brain tissue oxygenation in patients with severe traumatic brain injury
Takashi Tokutomi
Department of Neurosurgery, Kurume University School of Medicine, JAPAN

O-18  Pathophysiology and treatment of traumatic brain edema.
Gourishankar Patnaik
Professor and Head, Dept of Orthopedics and Trauma, Manipal University, MALAYSIA
**Sunday, March 7**

**Room A (501 A+B)**

07:30-09:15  **Oral Session 3  “ICU Management 2”**  
Chairpersons:  **Junichi Ono** (Japan)  
               **Shuyuan Yang** (China)  
               **P.S. Ramani** (India)  
               **Thomas Pentelényi** (Hungary)

O-19  **Pathophysiology of hyponatremia following brain injury: effect of hydrocortisone on excess natriuresis in patients with hyponatremia**  
Tatsuro Mori  
Division of Neurosurgery, Department of Neurological Surgery, Nihon University School of Medicine, JAPAN

O-20  **Hypertonic sodium lactat versus mannitol in the treatment of intracranial hypertension in severe traumatic brain injured patients with non surgical lesion**  
Joni Wahyuuhadi  
Dept. of Neurosurgery Soetomo Hospital-Medical Faculty Airlangga University Surabaya, INDONESIA

O-21  **The impact of hypernatremia in pateints with severe traumatic brain during ICU stay**  
Dong-Ho Kim  
Chungbuk National University Hospital, KOREA

O-22  **Multimodakity monitoring of severely head injured patients - Malaysia eixperience**  
Zamzuri Idris  
Universiti Sains Malaysia, MALAYSIA

O-23  **The usefulness of CT brain perfusion image on evaluation of traumatic brain injury-preliminary**  
Oh Ji-Wooing  
Department of Neurosurgery, Wonju Medical College, Yonsei University, KOREA

O-24  **Use of intracerebral microdialysis in severe traumatic brain injury**  
Nobuyuki Kawai  
Department of Neurological Surgery, Faculty of Medicine, Kagawa University, JAPAN

O-25  **The management of blast injuries to the head and neck**  
Jeffrey V Rosenfeld  
Dept of Surgery, Central Clinical School, Monash University / Neurosurgery Dept, The Alfred Hospital, AUSTRALIA
09:30-10:30  Oral Session 4  “Guidelines”
Chairpersons: AKIRA YAMAURA (Japan)
WEN-TA CHIU (Taiwan)
ALOK SHARMA (India)

O-26  JSNT guideline for the managements of severe head injury
Katsuji Shima
National Defense Medical College, JAPAN

O-27  Conformity to guidelines for management of severe traumatic brain injury in Japan
Eiichi Suehiro
Department of Neurosurgery, Yamaguchi University School of Medicine, JAPAN

O-28  Management of traumatic brain-injured patients by Surabaya’s (an evidence-based medicine) guideline improves outcomes
Muhammad Faris
Dept. of Neurosurgery, Faculty of Medicine, Airlangga University/ Sutomo General Hospital, INDONESIA

O-29  Integrated trauma program in the undergraduate core curriculum.
Gourishankar Patnaik
Professor and Head, Dept of Orthopedics and Trauma, Manipal University, MALAYSIA

10:45-11:45  Oral Session 5  “Hematoma / Surgical Treatment 1”
Chairpersons: YOICHI KATAYAMA (Japan)
JEFFREY V ROSENFELD (Australia)
BAIYUN LIU (China)

O-31  Evaluation of surgical treatment for cerebral contusion in 198 patients registered in the Japan Neurotrauma Data Bank
Takeshi Maeda
Japan Neurotrauma Databank, Japan Society of Neurotraumatology, JAPAN

O-32  Decompressive craniectomy: rationale, indications and outcome
Katsuji Shima
National Defense Medical College, JAPAN

O-33  The craniectomy procedure decreased mortality rate in traumatic acute subdural hematoma
Akhmad Imron
Department of Neurosurgery, Faculty of Medicine, Padjadjaran University, INDONESIA

O-34  Decompressive craniectomy: the Australian DECRA study: where are we?
Jeffrey V Rosenfeld
Dept of Surgery, Central Clinical School, Monash University / Neurosurgery Dept,
The Alfred Hospital, AUSTRALIA
12:00-12:50 Luncheon Seminar B
Chairperson: Seigo Nagao
Management of acute subaxial cervical spine injury with or without fracture-dislocation
Junichi Mizuno (Director, Center for Spine and Spinal Cord Disorders Southern Tohoku General Hospital, JAPAN)
Sponsor: AMMTEC

13:00-14:30 Oral Session 6 “Hematoma / Surgical Treatment 2”
Chairpersons: Katsuji Shima (Japan)
Kyoung-Suok Cho (Korea)
Ji-Yao Jiang (China)
Gourishankar Patnaik (Malaysia)

O-35 Post-traumatic hydrocephalus because of traumatic aqueduct obstruction
Tamotsu Miki
The Department of Neurosurgery, Tokyo Medical University Ibaraki Medical Center, JAPAN

O-36 Prediction of postoperative drainage volume and brain expansion of chronic subdural hematoma
Dong-Keun Hyun
Department of Neurosurgery, Inha University Hospital, KOREA

O-37 Chronic subdural hematoma: retrospective analysis of recurrence and drainage volume according to brain CT image and type of drain catheter system
JeongJae Park
Department of Neurosurgery, College of Medicine, Korea University, KOREA

O-38 Posterior stabilization for upper cervical spine injuries
Hiroyuki Nakase
Department of Neurosurgery, Nara Medical University, JAPAN

O-39 Management of traumatic fracture - dislocations of Axis
Lokendra Singh
Central India Institute of Medical Sciences, INDIA

O-40 Clinical outcome of titanium mesh cylindrical cages with kaneda SR in anterior column reconstruction after thoracic and lumbar burst fracture
Kyoung-Suok Cho
Uijongbu St. Mary’s Hospital, The Catholic University of Korea College of Medicine, KOREA

14:30-15:45 Oral Session 7 “Diffuse Injury, Cognitive Sequelae, and Rehabilitation”
Chairpersons: Tetsuo Kanno (Japan)
Youn-Kwan Park (Korea)
Yung-Hsiao Chiang (Taiwan)

O-41 Injury to the corpuscallosum
Mitsunori Matsumae
Department of Neurosurgery, Tokai University School of Medicine, JAPAN
O-42 Diffusion weighted MR imaging in diffuse axonal injury  
Paraneetharan  
Madurai Medical College, INDIA

O-43 Diffusion tensor imaging in the acute stage of mild to moderate head injury is useful to detect the white matter lesions and to predict the long-term prognosis  
Kohkichi Hosoda  
Department of Neurosurgery, Kobe University Graduate School of Medicine, JAPAN

O-44 PET multi-tracer molecular imaging study to investigate the pathophysiology of higher brain dysfunction in diffuse axonal injury.  
Tadashi Nariai  
Department of Neurosurgery, Tokyo Medical and Dental University, JAPAN

O-45 Neurorehabilitation in neurotrauma  
Yoko Kato  
Fujita Health University, JAPAN