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## PLENARY SESSION

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*Thursday, July 2*

**07:30-10:00      Cervical Degenerative**

**Moderators:      Junichi Mizuno**

*Southern Tohoku General Hospital*

**Chun Kee Chung**

*Seoul National University College of Medicine*

***1-01***

**Expansive laminoplasty without lamina spacers for cervical spondylosis and OPLL**

Izumi Koyanagi, Tomohiro Murakami, Takahisa Kaneko, Kazuhisa Yoshifuji, Kiyohiro Houkin

Department of Neurosurgery, Sapporo Medical University School of Medicine

***1-02***

**A novel laminoplasty technique using a translaminar screw**

Chun Kee Chung<sup>1</sup>, MD, PhD; Chi Heon Kim<sup>1</sup>, MD, PhD; Sung Bae Park<sup>2</sup>, MD

Tae-Ahn Jahng<sup>1</sup>, MD, PhD

<sup>1</sup>Department of Neurosurgery, Seoul National University Hospital, Seoul, Korea

<sup>2</sup>Department of Neurosurgery, Inje University. Department of Neurosurgery, Inje Paik Hospital, Seoul, Korea.

***1-03***

**Neuropathic Pain as a postoperative Sequela of Cervical Degenerative Myelopathy**

Makoto Taniguchi, Jun Nakauchi, Kazuhiko Ishii, Ayako Isoo, Hiroshi Takahashi

Tokyo Metropolitan Neurological Hospital, Department of Neurosurgery

***1-04***

**Anterior Resection of OPLL due to Delayed Neurological Deterioration after Cervical Laminoplasty**

Do-Heum Yoon, Keung-Nym, Kim, Yoon Ha, Seong Yi

Department of neurosurgery, Yonsei University, College of Medicine

***1-05***

**Surgical tactics for ossification of the posterior longitudinal ligament of the cervical spine**

Junichi Mizuno, MD, Yoshitaka Hirano, MD, Sadayoshi Watanabe, MD, Shinichi Numazawa, MD,

Tadao Matsushima, MD, Yasunobu Ito, Kazuo Watanabe

Southern Tohoku General Hospital

**1-06**

**Single-stage anterior and posterior combined surgery for severe long segment ossification of the posterior longitudinal ligament in cervical spine**

Sang Gu Lee M.D., Seong Son M.D., Suk Min Kim M.D., Chan Woo Park M.D., Woo Kyung Kim M.D.

Department of Neurosurgery, Gachon University of Medicine & Science Gil Hospital, Incheon, South Korea

**1-07**

**Morphometrical study of uncovertebral processes of cervical spine in Korean**

Tae Hoon Lee, M.D., Sang Jin Kim, M.D., In Hyuk Chung, M.D.\*

Department of Neurosurgery, Ewha Womans University School of Medicine, Mokdong Hospital and Department of Anatomy, Yonsei University School of Medicine\*, Seoul, Korea

**1-08**

**Transcorporeal Approach for Cervical Radiculopathy : the anatomical bases**

Jai-Joon Shim, \*Jae-Won Doh, Kyeong-Seok Lee

Department Of Neurosurgery, College of Medicine, Soonchunhyang University Cheonan Hospital

**1-09** Cancelled

**1-10**

**Cervical artificial disc replacement in spondylotic myelopathy**

Koang Hum Bak M.D., Ph.D

Department of Neurosurgery  
Hanyang University, Seoul, Korea

**1-11**

**Spinal navigation without spinous processes reference frame**

Shinsuke Suzuki, Toshiki Endoh, Akihiro Utsunomiya, Hiroshi Uenohara

Dept. of Neurosurgery, Sendai Medical Center, National Hospital Organization

**10:00-12:30 CV-junction, Syringomyelia, Complication**

**Moderators: Toshiaki Abe**

*Jikei University School of Medicine*

**Kyoung-Suok Cho**

*Uijongbu St. Mary's Hospital, The Catholic University of Korea College of Medicine*

**2-01**

**Treatment of C1-2 subluxation with anterior retropharyngeal approach and posterior transarticular screw fixation—preoperative planning and technical aspect**

Dar-Ming Lai MD PhD<sup>1</sup>, Yao-Hong Wang MD<sup>2</sup>, Yong-Kwang Tu, MD, PhD<sup>1</sup>

<sup>1</sup>Division of Neurosurgery, Department of Surgery, National Taiwan University Hospital

<sup>2</sup>Department of Radiology, National Taiwan University Hospital

**3-08**

**Clinical analysis of incidentally found asymptomatic syringomyelias.**

Hyun-Jib Kim, Ki-Jeong Kim, Sang Hoon Yoon, Sang Bong Chung, Yong Jun Jin

Sang-Ki Chung, Wook-Ha Kim

Neurosurgery, Seoul National University College of Medicine, Seoul National University Bundang Hospital

**2-02**

**Surgical results of two types of foramen magnum decompression for syringomyelia associated with Chiari type I malformation**

Shinji Imae, Toshika Ookawa, Jyunitirou Miki, Kazuya Nishioka, Mari Kitayama

Wakayama Medical University, Dept. of Neurological Surgery

**2-03**

**Current strategy of high cervical posterior instrumentation**

Ki-Hong Cho, M.D., Sang-Hyun Kim, M.D., Sung-Won Kang, M.D.

Department of Neurosurgery, Ajou University School of Medicine

**2-04**

**Fourth Ventricle- subarachnoid shunt for the Treatment of Syringomyelia : Indications, Methods and Results**

Toshiaki Abe, Akira Isoshima, Hiroyasu Nagashima, Kostadin L. Karagiozov, Satoshi Tani.

Department of Neurosurgery, Jikei University School of Medicine

**2-05**

**End-to-end Anastomosis of Injured Vertebral Artery During C2 Pedicular Screwing**

Joo-Kyung Sung, MD, PhD, Jin-Woo Park, MD

Kyungpook National University Hospital

**2-06**

**Surgical outcome of two-stage management for vertebral osteomyelitis and epidural abscess**

Hiroyuki Nakase, Yasuhiro Takeshima, Ryosuke Matsuda, Yasushi Motoyama, Young-Su Park,

Hidehiro Hirabayashi

Department of Neurosurgery, Nara Medical University

**2-07**

**Systemic hypothermia effect on cervical spinal cord contusion in rats**

Kyoung-Suok Cho, Pil-Woo Huh, Do-Sung Yoo, Seok-Gu Kang, Chun-Kun Park, WD Dietrich\*.

DD Pearse \*.

Uijongbu St. Mary's Hospital, The Catholic University of Korea College of Medicine, Seoul, Korea.

\*.The Miami Project to Cure Paralysis\* University of Miami School of Medicine, Miami, Florida,

USA.

**2-08**

**CT image-guided spine surgery in the hybrid OR**

Satoshi Tani, Hiroyasu Nagashima, Akira Isoshima, Masahiko Akiyama, Hiroki Ohashi, Satoru

Tochigi, Yuichi Murayama, Toshiaki Abe

Department of neurosurgery, Jikei University School of Medicine, Tokyo, Japan

**2-09**

**Transoral surgery for Craniocervical junction Lesions**

Tatsuo Takahashi, Motoki Ooeda, Kinnja Yokoyama, Noriyuki Suzaki, Shinichiro Tsugane

Arihito Tsurumi, Kenji Imagawa

Dept. of Neurosurgery, Nagoya Medical Center

**12:30-13:30 Luncheon Seminar 1:**

Sponsored by: HOYA CORPORATION

**Moderator: Do-Heum Yoon**

*Department of neurosurgery, Yonsei University, College of Medicine*

**“Various Applications of Hydroxiapatite in Spine Surgery - 18 Year Experience.”**

**Phyo Kim**

Department of Neurosurgery, Dokkyo University School of Medicine

**Friday, July 3**

**08:00-09:45 Tumor, AVM/F**

**Moderators: Masanori Ito**

*Juntendo University Urayasu Hospital*

**Hyun-Jib Kim**

*Seoul National University College of Medicine*

**3-01**

**Multidisciplinary approach for Perimedullary AV fistulas**

Kazutoshi Hida, Takashi Asano, Takeshi Aoyama, Shunsuke Yano, Yoshinobu Iwasaki

Department of Neurosurgery, Graduate School of Medicine, Hokkaido University

**3-02**

**Surgery of Foix-Alajouanine syndrome**

Ito M, Tsutsumi S, Nonaka Y, Abe Y, Yasumoto Y, Ohishi H,

Department of Neurosurgery Juntendo University Urayasu Hospital and Juntendo University School of Medicine

**3-03**

**Surgical Management of Cervical Perimedullary AVF**

Teiji Tominaga, Toshiki Endo

Department of Neurosurgery, Tohoku University Graduate School of Medicine

**3-04**

**Unilateral Microsurgical Approach for Patients with Intradural Extramedullary Spinal Tumors**

Youn-Kwan Park, Hong-Ju Moon, and Joo-Han Kim,

Department of Neurosurgery, Korea University Guro Hospital

**3-05** Cancelled

**3-06**

**Surgery of spinal nerve sheath tumors originating from C1 or C2 spinal level**

Toshihiro Takami, Kenji Ohata

Department of Neurosurgery, Osaka City University Graduate School of Medicine

Osaka, Japan

### **3-07**

#### **Surgical removal of the benign intramedullary vascular tumors of the spinal cord -hemangioblastomas and cavernous angiomas –**

Tomokazu Goya, Shiro Miyata, Takumi Yoneyama, Takuzo Moriyama, Yoshihiro Morita

Department of Neurosurgery, Junwakai Memorial Hospital

### **3-09**

#### **MRI imaging and therapeutic strategy for spinal intramedullary lesions**

Motoo Kubota MD PhD, Masahito Yuzurihara MD, Masaki Mizuno MD PhD, Minoru Hoshimaru  
MD, PhD\*

Department of Spinal Surgery, Kameda Medical Center

Department of Neurosurgery, Otsu Municipal Hospital\*

## **09:45-12:15 Lumbar Degenerative**

**Moderators: Masakazu Takayasu**

*Aichi Medical University*

**Whan Eoh**

*Samsung Medical Center, Sungkyunkwan University*

### **4-01**

**New Fracture after Vertebroplasty for osteoporotic compression fracture: a four-year population-based study in Korea.**

Whan Eoh, M.D. Min Seok Kim, M.D., Hee Chul Cho, M.D., Sun-Ho Lee, M.D., Eun Sang Kim, M.D.

Department of Neurosurgery, Samsung Medical Center, Sungkyunkwan University, School of Medicine

### **4-02**

**Transdural approach for midline huge lumbar disc hernia**

Junya Hanakita, Manabu Minami, Toshiyuki Takahashi, Fumiaki Honda, Masayuki Mori

Spinal Disorders Center, Fujieda Heisei Memorial Hospital

### **4-03**

**Effect of unilateral total facetectomy on lumbar spinal stability**

Seong-Hoon Oh M.D., IL-Tae Jang, M.D.

Nanoori Hospital

### **4-04**

**Total facetectomy and unilateral pedicle screw fixation for foraminal lesion of degenerative lumbar disease**

Toshiyuki Takahashi, Junya Hanakita, Manabu Minami, Fumiaki Honda, Masanao Mori

Spinal Disorders Center, Fujieda Heisei Memorial Hospital

### **4-05**

**Posterior lumbar interbody fusion in patients with osteopenia and osteoporosis**

Ho Shin M.D., Seung Myung Lee M.D.,

Seok Won Kim M.D., Chang Il Ju M.D.

Department of Neurosurgery, College of medicine, Chosun University, Gwangju, Korea

#### **4-06**

##### **Surgical outcome of posterior lumbar interbody fusion with pedicle screw fixation for Lumbar Spondylolisthesis.**

Motoi Shoda, MD, Shigehiko Kuno, MD, Tatsushi Inoue, MD, Gen Kusaka, MD  
Spine Center, Fujita Health University

#### **4-07**

##### **Clinical and radiological review of unilateral facetectomy and stand alone cages with lumbosacral foraminal stenosis**

Jin Hoon Park, Chae Wan Bae, Sang Ryong Jeon, Seung Chul Rhim, Sung Woo Rho  
Asan medical center

#### **4-08**

##### **Spinous process splitting laminotomy for MIS lumbar surgery**

Masakazu Takayasu, Masahiro Joko, Hisaharu Gotoh, Shiro Kondo, Muneyoshi Yasuda  
Department of Neurological Surgery, Aichi Medical University

#### **4-09**

##### **Clinical Applications of the Tubular Retractor on Spinal Disorders**

Young-Baeg Kim, Kyung-Tae Kim  
Department of Neurosurgery, School of Medicine, Chung-Ang University

#### **4-10**

##### **Surgico-anatomical consideration of the extraforaminal region in the lumbosacral spine**

Jung-keun, Suh  
Major in Neurosurgery, Department of Medical science,  
Graduate School of Korea University, Seoul, Korea

#### **12:30-13:30 Luncheon Seminar 2:**

Sponsored by: Medtronic Sofamor Danek, Co., Ltd.

**Moderator: Junya Hanakita**

*Spinal Disorders Center, Fujieda Heisei Memorial Hospital*

**“Spinal Navigation - Luxury or Necessity”**

**Ernest Wang Chee Meng**

Neurosurgery, National Neuroscience Institute, Singapore

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## POSTER SESSION

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**Group 1: Cervical Spine**

**Moderators: Ryu Kurokawa**

*Dokkyo University School of Medicine*

**Jung-keun, Suh**

*Department of Medical science, Graduate School of Korea University, Seoul, Korea*

**P-01**

**Rotational vertebral artery occlusion ( Bow hunter's stroke )**

Sang-Bong Chung<sup>1</sup>, Kyung Yun Moon<sup>1</sup>, Ki-Jeong Kim<sup>2</sup>, Hyun-Jib Kim<sup>2</sup>

Department of Neurosurgery, The Armed Forces Capital Hospital<sup>1</sup>

Department of Neurosurgery, Seoul National University Bundang Hospital<sup>2</sup>

**P-02**

**Anatomical study of the V2 segment of the vertebral artery using CT angiography**

Jae Taek Hong, M.D., Ph.D.,<sup>1</sup> Daniel Park, M.D., Ph.D.,<sup>3</sup> Michael Lee, M.D.,<sup>3</sup> Ph.D., Sang Woo Kim, M.D., Ph.D.,<sup>2</sup> Howard S. An., M.D., Ph.D.,<sup>3</sup>

<sup>1</sup>Department of Neurosurgery, Catholic University of Korea, St. Vincent's Hospital, Suwon, Korea;

<sup>2</sup>Department of Neurosurgery, Young Nam University Medical Center, Dae-Gu, Korea;

<sup>3</sup>Department of Orthopaedic Surgery, Rush University Medical Center Chicago, USA

**P-03**

**Examination of relativity of cervical vertebra dynamic factors and unilateral or asymmetrical symptoms in upper extremities in patients with cervical spondylosis**

<sup>1</sup>Toshitaka Seki, <sup>1</sup>Rokuya Tanikawa, <sup>1</sup>Toshihide Sugimura, <sup>1</sup>Naoto Izumi, <sup>1</sup>Takahiro Maeda, <sup>1</sup>Tetsuro Sameshima, <sup>1</sup>Toshiyuki Tsuboi, <sup>1</sup>Masaaki Hashimoto, <sup>2</sup>Tsutomu Fujita, <sup>3</sup>Akira Hashimoto, <sup>4</sup>Teruo Kimura, <sup>4</sup>Kazutsune Kawasaki, <sup>4</sup>Takeshi Aoyama, <sup>4</sup>Kosumo Noda, <sup>4</sup>Makoto Miyano

<sup>4</sup>Sadahiro Kaneko

<sup>1</sup>Abashiri Neurosurgical Rehabilitation Hospital, <sup>2</sup>Bihoro Clinic

<sup>3</sup>Katsuragaoka Clinic, <sup>4</sup>Dohtoh Neurosurgical Hospital

***P-04***

**Morphometric study for the nerve roots around cervical lateral mass**

Jea Chil Chang, M.D., Hack Gun Bae, M.D., Soon Kwan Choi, M.D., Hyung Ki Park, M.D.

Department of Neurosurgery, College of Medicine, Soonchunhyang University

***P-05***

**The effectiveness of cervical decompression with open-door laminoplasty in elderly patients.**

Geun Sung Song\*, Sung Hoon Kim\*, Soon Ki Sung\*, Dong Wuk Son\*, In Ho Han†, Byung Kwan Choi†, Sang Weon Lee\*

Department of Neurosurgery, Pusan National University Yangsan Hospital\* and Pusan National University Hospital†

***P-06***

**A Comparison of Hydroxyapatite Laminar Spacers versus Titanium Miniplates used in Open-door Laminoplasty**

Jung Hyun Shim, Jang Hoe Hwang, Choon Keun Park, Dong Chan Lee

Dong Hyun Kim, Jae Keon Kim,

Department of Neurosurgery, The Leon Wiltse Memorial Hospital

***P-07***

**Transverse Skin Incision and Lateral Position for Cervical Laminoplasty**

Keiichi Iseda, Masaaki Nakajima, Hiroyuki Gotoh, Hideyuki Yoshida

Kenji Takahashi, Masahiro Tsuboi

Department of Neurosurgery, Okayama Saiseikai General Hospital

***P-08***

**Clinical Analysis of a Modified Unilateral Open-Door Laminoplasty Using Hydroxyapatite Blocks and Titanium Miniplates: Results from Minimum of 1-Year Follow-Up**

Se-Hoon Kim, Sang-Kook Lee, Sung-Kon Ha, Sang-Dae Kim, Dong-Jun Lim, Jung-Yul Park

Department of Neurosurgery, Korea University Ansan Hospital

***P-09***

**Clinical and radiological outcome of laminar screw at C2 and C7 for posterior instrumentation - review of 25 cases and comparison of C2 and C7 intralaminar screw fixation**

Jae Taek Hong, Jin Seok Lee, Jong Tae Kim, Chul Ji, Kyung Sik Ryu, Sang Won Lee, Chun Kun Park

Catholic University of Korea, St. Vincent's Hospital

***P-10***

**Pedicle angle plane Computed tomography scan–based Direct Pedicle Screw Fixation of Hangman Fracture - A Cage Report -**

Jong-Joo Rhee, Jong-Won Lee, Jin-Woo Hur, Hyun-Koo, Lee

Department of Neurosurgery, Cheongju St. Mary's Hospital

***P-11***

**The changes of overall sagittal balance and segmental angle after single-level cervical fusion and prosthesis**

<sup>1</sup> Sung Bae Park, M.D, <sup>2</sup> Tae-Ahn Jahng, M.D., <sup>2</sup> Chun Kee Chung, M.D.

<sup>1</sup>Department of Neurosurgery, Inje University College of Medicine, Seoul Paik Hospital,

<sup>2</sup>Department of Neurosurgery, Seoul National University College of Medicine, Seoul National University Hospital, Seoul, Korea

***P-12***

**Combined approach with the Williams-Isu method and the transvertebral approach to treat cervical disease**

Kyongsong Kim,\* Toyohiko Isu,\*\*, Shiro Kobayashi,\* Akira Teramoto\*\*\*\*

\*Department of Neurosurgery, Chiba Hokuso Hospital, Nippon Medical School, Chiba

\*\*Department of Neurosurgery, Kushiro Rosai Hospital, Kushiro, Hokkaido

\*\*\*Department of Neurosurgery, Nippon Medical School, Tokyo

***P-13***

**The predisposing factors for the Heterotopic ossification after cervical arthroplasty.**

Seong Yi

Moonsul Yang, Joong Won Yang, Hoon Kim, Yoon Ha , Keung Nyun Kim, Do Heum Yoon.

Department of Neurosurgery, Spine and Spinal Cord Institute

Yonsei University, College of Medicine

***P-14***

**Significance of uncovertebral joint arthrosis in developing heterotopic ossification (HO) after cervical total disc replacement**

Eun-Sang Kim, Johongil Muradov, Sun-Ho Lee, Whan Eoh

Department of Neurosurgery, Samsung Medical Center, Sungkyunkwan University School of Medicine

***P-15***

**Anterior retropharyngeal approach to the upper cervical spine (Is high retropharyngeal approach necessary in C2-C3 level?)**

Jae Won Jang, M.D., Jung-Kil Lee, M.D., Bo-Ra Seo, M.D., Sung-Pil Joo, M.D., Tae-Sun Kim, M.D., Jae-hyoo Kim, M.D., Soo-Han Kim, M.D.

Department of Neurosurgery, Chonnam National University Hospital & Medical School

***P-16***

**Surgical treatment for cervical myelopathy of elderly patients over 75 years old**

Masahito Yuzurihara MD, Masaki Mizuno MD PhD, Motoo Kubota MD PhD

Department of Spinal Surgery, Kameda Medical Center

***P-17***

**Laminoplasty for OPLL Accompanied by Cervical Pain**

Kazuhiko Ishii

Jun Nakauchi, Ayako Isoo, Tohru Terao, Makoto Taniguchi, Hiroshi Takahashi

Department of Neurosurgery, Tokyo Metropolitan Neurological Hospital

***P-18***

**Traumatic central cord syndrome without fracture and dislocation: Results of surgical and conservative treatment**

Tsuyoshi Watanabe, Gakuji Gondo, Hiroto Takada, Shin Tanino

Department of Neurosurgery, Shonan Kamakura General Hospital

***P-53***

**Clinical and radiographic analysis of cervical total disc replacement versus anterior cervical fusion using stand-alone cage**

Jong-il, Choe, You-hyun, Cha, Jung-keun, Suh

Major in Neurosurgery, Department of Medical science, Graduate School of Korea University

Seoul, Korea

**Group 2: Lumbar Spine**

**Moderators: Motoi Shoda**

*Spine Center, Fujita Health University*

**Seong-Hoon Oh**

*Nanoori Hospital*

***P-19***

**The effectiveness of microdecompression using microscopic tubular retractor system for lumbar foraminal/extraforaminal stenosis.**

Kwan Ho Park, Tae Wan Kim, Moon Pyo Chi, Jae O Kim, Jung Chul Kim

Seoul Veterans Hospital

***P-20***

**Removal of lumbar disc herniation assisted by intraoperative ultrasound**

Takeshi Aoyama<sup>a</sup>, Kazutoshi Hida<sup>a</sup>, Minoru Akino<sup>b</sup>, Shunsuke Yano<sup>a</sup>, Yoshinobu Iwasaki<sup>a</sup>

<sup>a</sup>Department of Neurosurgery, Hokkaido University Graduate School of Medicine, Sapporo, Hokkaido, Japan

<sup>b</sup>Department of Neurosurgery, Sapporo Azabu Neurosurgical Hospital, Sapporo, Hokkaido, Japan

***P-21***

**Instrumented fusion of same-level lamina and transverse process using a pedicle screw and U-shaped rod construct for the treatment of lumbar spondylolysis**

IL-Tae Jang, M.D., Seong-Hoon Oh M.D.

Nanoori Hospital

***P-22***

**Posterior lumbar interbody fusion using autologous facet bone block and pedicle screw fixation**

Jang-Seon You, M.D., IL-Tae Jang, M.D., Seong-Hoon Oh M.D.

Nanoori Hospital

***P-23***

**Surgical strategy for degenerative lumbar scoliosis**

Gen Kusaka, Shigehiko Kuno, Tatsushi Inoue, Motoi Shoda and Hisatosi Sano

Spine Center, Fujita Health University

**P-24**

**Synex™ Expandable Cage for Vertebral Body Replacement in the Thoracolumbar Spine:  
Analysis of an Early Clinical and Radiological Outcome**

Sang-Kook Lee, Se-Hoon Kim, Sung-Kon Ha, Sang-Dae Kim, Dong-Jun Lim, Jung-Yul Park,  
Jung-Keun Suh

Department of Neurosurgery, Korea University Ansan Hospital

**P-25**

**Early Clinical and Radiographic Results of the N-Flex Posterior Dynamic Stabilization System**

In Jae Choi, M.D. , Nam Hun Yu, M.D , Kyung Yun Moon, M.D., Chi Heon Kim, M.D., Ph.D.,  
Chun Kee Chung, M.D., Ph.D., Tae-Ahn Jahng, M.D., Ph.D.

Department of Neurosurgery, Seoul National University College of Medicine

**P-26**

**Efficacy of interspinous plate fixation for aged lumbar spondylolisthesis with instability**

Hidenori Matsuoka, Yasunobu Itoh, Masato Tomii, Shinichi Numazawa, Kazuo Watanabe,  
Yoshitaka Hirano, Tadao Matsushima, Junichi Mizuno, Hiroshi Nakagawa

Department of Neurosurgery, Southern TOHOKU General Hospital  
Southern TOHOKU Research Institute for Neuroscience

**P-27**

**A comparative study of the osteogenic potentials of rhBMP-2 in collagen sponge or mixed with  
porcine collagen gel in a rat spinal fusion model**

Seung-Hwan Yoon, Hyung-Chun Park, Chong-Oon Park, Dong-Keun Hyun, Hyeonseon Park,  
Eun- Young Kim, Kil Whan Kim, Byung Hyun Choi, So Ra Park

Inha University Hospital

**P-28** Cancelled

***P-29***

**Disc height and segmental motion as risk factors for recurrent lumbar disc herniation**

Seung-Won Park, MD

Kyoung-Tae Kim

Young-Baeg, Kim, MD

Department of Neurosurgery, College of Medicine, Chung-Ang University, Seoul, Korea

***P-30*** Cancelled

***P-31***

**Lower invasion of fenestration by spinous process splitting approach for lumbar canal stenosis**

Tatsuya Ohtonari, M.D.1), Nobuharu Nishihara, M.D., Ph.D.1), Taisei Ota, M.D.1),

Tsunemaro Koyama, M.D., Ph.D. 2)

1) Department of Spinal Surgery, Brain Attack Center Ota Memorial Hospital, Fukuyama, Hiroshima, Japan

2) Clinical Institute for Spinal Disorders, Otsu, Shiga, Japan

***P-32***

**Clinical Parameters related with surgical outcome of Thoracic Ossified Ligamentum Flavum**

Sang Hoon Yoon,MD, Ki-Jeong Kim, MD, PhD, Sang-Ki Chung, MD, PhD, Hyun-Jib Kim, MD, PhD, Yong Jun Jin, MD, MS, Sang Bong Chung, MD, MS, Wook-Ha Kim, MD.

Neurosurgery, Seoul National University College of Medicine, Seoul National University Bundang Hospital

***P-33***

**Dural ossification in ossification of the yellow ligament of the thoracic spine**

Takahisa Kaneko, Izumi Koyanagi, Tomohiro Murakami, Kazuhisa Yoshifuji, Kiyohiro Houkin

Department of Neurosurgery, Sapporo Medical University School of Medicine

**Group 3: Cord Lesion  
(Syringomyelia, Trauma, AVF), Tumor, Infection**

**Moderators: Kazutoshi Hida**

*Hokkaido University*

**Youn-Kwan Park**

*Korea University Guro Hospital*

***P-34***

**Usefulness of ADC values in spinal cord injury**

Toshiki Endo<sup>1,2</sup>, Shinsuke Suzuki<sup>2</sup>, Akihiro Utsunomiya<sup>2</sup>, Hiroshi Uenohara<sup>2</sup>, Teiji Tominaga<sup>1</sup>

<sup>1</sup> Department of Neurosurgery, Tohoku University

<sup>2</sup> Department of Neurosurgery, Sendai Medical Center

***P-35***

**Dysesthetic pain in patients with syringomyelia and Chiari type I malformation : Analysis of pre- and postoperative condition**

Kazutoshi Hida, Takeshi Aoyama, Shunsuke Yano, Yoshinobu Iwasaki

Department of Neurosurgery, Graduate School of Medicine, Hokkaido University

***P-36***

**Intramedullary subependymoma in cervical spinal cord.**

Hyun-Jib Kim, Sang Hoon Yoon, MD, MS, Ki-Jeong Kim, MD, PhD, Sang-Ki Chung, MD, PhD, Yong Jun Jin, MD, MS, Wook-Ha Kim, MD.

Neurosurgery, Seoul National University College of Medicine, Seoul National University Bundang Hospital

***P-37***

**Pathogenesis of intramedullary abscess of spinal cord. Report of three cases and analysis of literature.**

Johngil Muradov<sup>(1)</sup>, Eun-Sang Kim<sup>(1)</sup>, Sun-Ho Lee<sup>(1)</sup>, Whan Eoh<sup>(1)</sup>, Yong-Jae Cho<sup>(2)</sup>, Sang Jin Kim<sup>(2)</sup>

<sup>(1)</sup> Department of Neurosurgery, Samsung Medical Center, Sungkyunkwan University School of Medicine; Institution

<sup>(2)</sup> Department of Neurosurgery, Ewha Womans University Mokdong Hospital

***P-38***

**Surgical obliteration of spinal arteriovenous fistulas: Surgical safety and radical cure**

Toshihiro Takami, Yutaka Mitsuhashi, Akimasa Nishio, Kenji Ohata

Department of Neurosurgery, Osaka City University Graduate School of Medicine

Osaka, Japan

***P-39***

**Clear cell ependymoma of the cauda equine: A case report**

Kwan Ho Park,

Tae Wan Kim, Jae O Kim, Moon Pyo Chi, Jung Chul Kim

Seoul Veterans Hospital

***P-40***

**Cervical glioblastoma without contrast enhancement –case report-**

Shinji Yamamoto, Phyo Kim, Yoshihumi Okada, Keisuke Ueki, Kayoko Iwata

Department of Neurosurgery, Dokkyo University School of Medicine

***P-41***

**Paraplegia after spinal epidural anesthesia in a patient with an undiagnosed IDEM tumor**

Soon Ki Sung\*, Sung Hoon Kim\*, Jin Ho Jeon‡, Dong Wuk Son\*, In Ho Han†, Byung Kwan Choi†, Sang Weon Lee\*, Geun Sung Song\*

Department of Neurosurgery, Pusan National University Yangsan Hospital\*, Pusan National University Hospital† and Dae Dong Hospital‡

***P-42***

**Surgical treatment of spinal meningioma**

Tomohiro Murakami, Izumi Koyanagi, Takahisa Kaneko, Atsuhiko Ohkura, Kazuhisa Yoshifuji, Kiyohiro Houkin

Department of Neurosurgery, Sapporo Medical University School of Medicine

***P-43***

**Idiopathic thoracic lipomatosis without obesity: a case with chest pain by radiculopathy.**

Hyung-Ki Park, M.D. Sung-Jin Cho, M.D. Jae-Chil Chang, M.D.

Department of Neurosurgery, College of Medicine, Soonchunhyang University

**P-44**

**Adult Langerhan's Cell Histiocytosis of the spine presenting with neurological deficit. Report of two cases**

Hyun-Woo Kim, Se-Whan Ahn, Ho-gyun Ha

Department of Neurosurgery, Konyang Medical School, Daejeon, Korea

**P-45**

**Chondroblastoma of the lumbar vertebra with pulmonary metastasis – a case report-**

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**Surgical treatment of spinal intradural arachnoid cyst using endoscope**

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**Diagnosis and surgical strategy for sacral meningeal cysts with check-valve mechanism.**

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**Vertebral osteomyelitis with epidural abscess caused by Mycobacterium abscessus**

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**Sparganosis of Lumbar Epidural Space**

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**Cervical spinal infection with/without epidural abscess**

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**Cervical intradural extramedullary cavernous angioma presented with subarachnoid hemorrhage**

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