



Program

Friday, 2 August. Hall A

08:10-08:40 General Session 1-A-1 BKP 1

Chairman : Shin-ichi Konno (Fukushima Medical University)

- 1) Height Restoration after Balloon Kyphoplasty in Patients with Rheumatoid Arthritis Seung-Pyo Suh
- 2) Kyphoplasty for the treatment of nonunion of thoracolumbar vertebral fractures Yang Hui- lin
- 3) Spontaneous Fusion after Vertebroplasty and Kyphoplasty in Osteoporotic Compression Fracture .. Jin-Hwan Kim
- 4) Repeat Percutaneous Vertebroplasty for Symptomatic Cemented Vertebrae Shih-Chieh Yang

08:40-09:10 General Session 1-A-2 Fixation 1

Chairman : Ki-Tack Kim (Kyung Hee University Hospital at Gangdong)

- 1) Treatment of lumbar spondylolisthesis by minimally invasive surgery through multifidus muscle clearance approach Li Qingchu
- 2) Five-Year Outcomes Following Minimally Invasive Transforaminal Lumbar Interbody Fusion for Spondylolisthesis and Degenerative Lumbar Disease. Yung Park
- 3) MIS-TLIF Reduces an Incidence of Adjacent Segment Disease in The Patient with Degenerative Spondylolisthesis -Comparative Study with Conventional TLIF- Ken Ishii
- 4) Treatment of multilevel degenerative lumbar spinal stenosis with spondylolisthesis using a combination of minimally invasive spine surgery Han Wu

09:10-09:40 General Session 1-A-3 Fixation 2

Chairman : Ruey-Mo Lin (National Cheng Kung University Medical Center)

- 1) Middle and long-term follow-up results of MIS-TLIF using tubular retractor for patients with degenerative spondylolisthesis of the lumbar spine Akihito Wada
- 2) Short- to Middle-Term Outcomes of MIS-TLIF for Isthmic Spondylolisthesis -Comparative Study with Conventional PLIF- Nobuyuki Fujita
- 3) Effectiveness of MIS-TLIF as revision surgery -A comparative study with conventional TLIF- Yasuhito Kaneko

10:00-11:00 Special Lecture

Chairman : Toru Hasegawa (Kawasaki Medical School)

- Transthoracic augmentation and reconstruction of the anterior column in burst fractures of the elderly using thoracoscopy Rudolf Beisse

**11:00-11:50 General Session 1-A-4 Fixation 3**

Chairman : Po-Quang Chen (Min-Sheng General Hospital)

- 1) Treatment of unstable sacral fracture with a modified Galveston technique (minimally invasive spino-pelvic fixation) Koichiro Koshimune
- 2) The application of lumbo-sacro-pelvic fixation with MIS Galveston technique using iliac screws -3 cases report Hiroki Matsui
- 3) Efficacy of temporary percutaneous pedicle screw fixation for thoracolumbar fractures- Preliminary results- Hyoung-Yeon Seo
- 4) Multi-level MIS-TLIF for degenerative lumbar scoliosis associated with lumbar spinal canal stenosis Keisuke Nakano
- 5) Minimally invasive fixation for metastatic spinal disease: Can it alter our treatment strategy? Naresh Kumar
- 6) Efficacy of Minimally Invasive spine Stabilization for Spinal Infection Shinichi Ishihara

12:00-13:00 Luncheon Seminar 1

Chairman : Hiroshi Takahashi (Toho University)

Sponsored by Medtronic Sofamor Danek, Co., Ltd.

Indication and Technique of Oblique Lateral Interbody Fusion (OLIF) Seiji Ohtori

13:10-14:00 General Session 1-A-5 Fixation 4

Chairman : Hee-kit Wong (National University of Singapore)

- 1) Comparison of cortical bone trajectory method TLIF and Wiltse approach TLIF aiming at less invasiveness Yohei Yuzawa
- 2) Minimally invasive lumbar percutaneous unilateral pedicle screw fixation in the lateral decubitus position after extreme lateral interbody fusion Satoshi Baba
- 3) The XLIF surgery assisted with micro-endoscope Hirohiko Inanami
- 4) Minimally invasive Lateral Access Interbody Fusion (DLIF®) CLinical and Radiographic outcome in Bangkok Spine Academy, Thailand Tayard Buranakarl
- 5) The radiographic analysis of the indirect decompression after anterior lumbar interbody fusion (ALIF) or direct lateral interbody fusion (DLIF) JongHo Park
- 6) The feasibility of oblique lumbar interbody fixation for normal spinal structure patients Wen Fei Ni

14:00-14:30 General Session 1-A-6 Fixation 5

Chairman : Arvind Jayaswal (All India Institute of Medical Sciences)

- 1) A burden of MIS-PLIF on surgeons Takeshi Arizono
- 2) The influence of minimally invasive lumbar interbody fusion on the back muscles: evaluation by MRI and needle myography Takanori Saito
- 3) The Impact of Minimally Invasive Approach In Preventing Adjacent Segment Pathology After Lumbar Interbody Fusion Jwo-Luen Pao



- 4) Microendoscopic unilateral posterior lumbar interbody fusion (ME-PLIF) with percutaneous pedicle screw fixation and its complications Yuichi Takano

14:40-15:20 General Session 1-A-7 Fixation 6

Chairman : Chang-Hoon Jeon (Ajou University Medical Center)

- 1) PEEK cage in Minimally Invasive Transforaminal Lumbar Interbody Fusion; Subsidence incidence, risk factors and clinical outcomes Moon Chan Kim
- 2) Clinical outcomes and return to sports activities and works after surgery for lumbar spondylolysis. Kazuki Fujimoto
- 3) Development of A Novel Percutaneous Guide Wire (S-Wire[™]) for Percutaneous Pedicle Screw Insertion -Its Efficacy and Safety-..... Ken Ishii
- 4) Accuracy of percutaneous thoracic pedicle screw placement with intra-operative 3D CT navigation Shunichi Kishida
- 5) Fluoroscopy free minimally invasive spine surgery using iCT navigation- A preliminary result Ching-Yu Lee



Friday, 2 August.	Hall B
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08:10-08:40 General Session 1-B-1 Basic Research 1
Chairman : Jae-Sung Ahn (ChungNam National University Hospital)

- 1) Histopathological findings of the simply excised lumbar intervertebral disc..... Thavat Prasarthitha
- 2) The Possibility of Regeneration Process in Nucleus Pulposus Cells Komang Agung Irianto
- 3) Expression of proteoglycan in the intervertebral disc cells under the oxygen condition..... Young Mi Kang
- 4) Expression of sclerostin and role of Non-canonical (PKC) signaling in the intervertebral disc cells ... Young Mi Kang

08:40-09:20 General Session 1-B-2 PELD
Chairman : Akira Dezawa (Teikyo University Mizonokuchi Hospital)

- 1) CT-based anatomical consideration of the transforaminal approach for the percutaneous endoscopic lumbar discectomy Yasuhiro Kitagawa
- 2) Intradiscal therapy for discogenic low back pain in high-class athletes: Disc injection and PED thermal annuloplasty Koichi Sairyo
- 3) Trials of microendoscopic laminotomy (MEL) for lumbar canal stenosis Kiyoshi Yoshihara
- 4) Minimally invasive and simultaneous removal of herniated intracanal and extracanal lumbar nucleus pulposus using a percutaneous spinal endoscope Soichi Koga
- 5) Advantages of Lateral Position for L5/S1 Interlaminar Approach PELD..... Yutaka Hiraizumi

09:20-09:50 General Session 1-B-3 Decompression 1
Chairman : Morio Matsumoto (Keio University)

- 1) A minimum 2-year follow-up result of posterior microendoscopic decompression surgery for lumbar foraminal and extraforaminal stenosis at L5-S1 Hiroshi Yamada
- 2) Evaluation Of CT Measurements And Clinical Efficacy For Microendoscopic Decompression On Lumbar Spinal Stenosis..... Xu Zhou
- 3) Treatment of degenerative lumbar spine stenosis by modified unilateral approach for bilateral decompression under endoscope Li Qingchu
- 4) Full-endoscopic Operations in the Treatment of lumbar Spinal Stenosis in elderly patients Xie Lin

11:00-11:50 General Session 1-B-4 Decompression 2
Chairman : Munehito Yoshida (Wakayama Medical University)

- 1) Clinical Features and Surgical Outcomes of Extraforaminal Entrapment of L5 Spinal Nerve ... Morio Matsumoto
- 2) The surgical results of Lumbar extra foraminal stenosis-Experience of MED for Recurrent Lumbar Extra Foraminal Stenosis-..... Atsushi Tagami
- 3) The predictors for outcome of L5 nerve root with extra-foraminal stenosis in micro-endoscopic decompression surgery..... Hirohiko Inanami
- 4) Short-term results of spinal micro-endoscopic surgery for lumbar spondylolisthesis Hideo Kataoka



- 5) Clinical results of microsurgical bilateral decompression via unilateral approach for lumbar spinal stenosis with multiple-level involvement including degenerative spondylolisthesis. Nobuhiro Tanaka
- 6) Clinical Outcomes of Degenerative Spondylolisthesis: Microendoscopic Decompression and Fusion... Soichiro Shimizu

12:00-13:00 Luncheon Seminar 2

Chairman : Takanori Saito (Kansai Medical University Takii Hospital)

Sponsored by DePuy Synthes Companies of Johnson & Johnson

Minimally Invasive Spine Surgery (MISS) -Past, Present & Future- Ken Ishii

13:10-14:00 General Session 1-B-5 Decompression 3

Chairman : Chong-Suh Lee (Samsung Medical Center)

- 1) Magnetic resonance imaging evaluation of the effects of surgical invasiveness on paravertebral muscles following muscle-preserving interlaminar decompression (MILD) Hitoshi Tonomura
- 2) Clinical outcome of muscle-preserving interlaminar decompression (MILD) for the lumbar spine: a minimally invasive microscopic procedure for lumbar spinal canal stenosis Yoichiro Hatta
- 3) Evaluation of postoperative epidural hematoma after muscle-preserving interlaminar decompression (MILD) for lumbar spinal canal stenosis (LSCS) Tomohisa Harada
- 4) CT and MRI image Characteristics of Calcified Lumbar Disc Herniation and Microendoscopic Discectomy Han Wu
- 5) Microendoscopic cervical decompression surgery in patients with adjacent segment pathology following anterior cervical fusion surgery Yasushi Oshima
- 6) Salvaged Operation Using Spinal Microendoscope for Treatment of Lumbar Foraminal Stenosis After Lumbar Floating Fusion Primadenny Airlangga

14:00-14:30 General Session 1-B-6 MIS Cervical Spine

Chairman : Zhaomin Zheng (The First Affiliated Hospital of Sun Yat-sen University)

- 1) Cervical microendoscopic foraminotomy for cervical radiculopathy: comparison of gtraditional and current techniques Yukihiro Nakagawa
- 2) Percutaneous Cervical Nucleoplasty in the Treatment of CervicalDisc Herniation, Clinical Results of Neck and Arm Pain Tawechai Tejapongvorachai
- 3) Minimally Invasive Cervical Reconstruction Surgery by Pedicle Screw Using Navigation System.. Hideyuki Doi

14:40-15:30 General Session 1-B-7 ALIF

Chairman : Hiroaki Nakamura (Osaka City University)

- 1) Comparison of Minimal Access and Traditional Anterior Spinal Surgery in Managing Infectious Spondylitis with a Minimum 2-Year Follow-up. Ching-Yu Lee
- 2) Endoscopic Anterior Lumbar Interbody Fusion (EALIF) combined with minimally invasive spine stabilization (MIST) for the treatment of pyogenic spondylitis Hidetomi Terai
- 3) Clinical and radiological results of anterior lumbar interbody fusion followed by insertion of the percutaneous pedicle screws in patients with chronic discogenic low back pain Gen Inoue



- 4) The effect of anterior cervical discectomy and fusion with self-locking cages on multi-level cervical myelopathy treatment..... Li Qingchu
- 5) The effect of ALIF with self-stabilized cage on the treatment of degenerative lumbar disorders..... Li Qingchu
- 6) Endoscopic anterior correction and fusion for thoracic scoliosis Sohei Ebara
- 7) Spinal reconstruction with VATS for anterior column disruption after the PTV in the elderly patients ... Hideaki Iba



Friday, 2 August.	Hall C
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15:30-15:58 Poster Session P1-1 MIST2
Chairman : Keisuke Nakano (Takaoka Seishikai Hospital)

- 1) The experience of using CBT (cortical bone trajectory) technique in vertebral fracture cases... Kimiaki Yokosuka
- 2) Surgical treatment of thoracolumbar burst fracture using percutaneous pedicle screw fixation... Hirotoshi Yamane
- 3) Minimally Invasive Surgery (MIS) for Thoracolumbar Trauma Arvind Jayaswal
- 4) Clinical result of surgical treatment for infectious spondylitis with Minimally Invasive spine Stabilization Akira Shinohara
- 5) Long thoracic and lumbar spinal stabilization with a minimally invasive spine surgery technique... Hiroshi Kuroki
- 6) Minimally invasive spine stabilization (MIST) in treating metastatic spine tumor Kenji Kano
- 7) Video-assisted thoracoscopic surgery (VATS) for thoracolumbar fracture of diffuse idiopathic skeletal hyperostosis (DISH) - A case report Kazuya Uchino

15:58-16:14 Poster Session P1-2 MIST1
Chairman : Shing-Sheng Wu (Taipei Medical University)

- 1) MIS-TLIF for lumbar disc lesion with Modic changes..... Yasuhito Kaneko
- 2) A Novel Approach of spinal surgery in Percutaneous pedicle screw insertion and transforaminal interbody fusion- a preliminary report Yen-Yao Li
- 3) Clinical results of minimum invasive spinal instrumentation in our hospital..... Yoshikazu Yanagisawa
- 4) Clinical Outcomes and Complications of Minimally Invasive Posterior Lumbar Interbody Fusion: Comparison of Minimally Invasive and Traditional Open Surgery..... Kentaro Yamane

16:14-16:34 Poster Session P1-3 Infection
Chairman : Motonobu Natsuyama (Kantoh Rosai Hospital)

- 1) Minimally Invasive Spine Stabilization (MIST) for Spinal Infection Yosuke Konno
- 2) Combined Minimally Invasive Fixation & Decompression for Tuberculous infections in Thoraco Lumbar Spine..... Arvind Jayaswal
- 3) One-Stage Transpedicular Drainage and Posterior Fusion for Treating Thoracic Spinal Tuberculosis- A Case Report..... Hung-Kang Wu
- 4) Efficacy of prophylactic antibiotics in spinal surgery: A nonrandomized controlled clinical trial of 200 patients..... N-S Chung
- 5) Irrigation Method for Lumbar Spondylodiscitis utilizing Cotton Finger Kazuyuki Fukushima

**16:34-16:54 Poster Session P1-4 Compression Fracture**

Chairman : Shao-Keh Hsu (Tung's Taichung Metrohorbor Hospital)

- 1) Correlation between Sagittal Alignment and Adjacent Fracture after Percutaneous Vertebroplasty or Kyphoplasty..... Ki-Chan An
- 2) Complete motor recovery after acute paraplegia caused by spontaneous spinal epidural hematoma following percutaneous vertebroplasty: a case report Chun-lin Chen
- 3) Intradiscal cement leakage inducing severe low back pain Hikaru Morisue
- 4) Adjacent segment degeneration after thoracolumbar fusion: An age- and sex matched comparison with lumbar fusion N-S Chung
- 5) At least 3 months of continuous teriparatide administration can prevent new onset of osteoporotic vertebral compression fractures within one year Hak-Sun Kim

16:54-17:10 Poster Session P1-5 New Methods

Chairman : Weon-Wook Park (Busan Parkweonwook Hospital)

- 1) Endoscope-assisted anterior screw fixation of type II odontoid fracture Yasutaka Takagi
- 2) Subsidence and Nonunion after Anterior Cervical Discectomy and Fusion with Zero-profile Device... Chang Hun Yu
- 3) Reduction in radiation while maintaining safe placement of pedicle screws during percutaneous lumbar pedicle screw placement using a new device..... Lei Zhang
- 4) Preoperative localization methods for minimally invasive surgery in lumbar spine: comparisons between a novel method and conventional methods Guangfei Gu

17:10-17:30 Poster Session P1-6 Miscellaneous

Chairman : Jae-Won You (Chosun University Hospital)

- 1) BMP9-Induced Osteogenetic Differentiation and Bone Formation of Muscle-Derived Stem Cells ... Zhongliang Deng
- 2) Nano biology: New Dimention in basic science of spine vertebra fracture in Osteoporosis..... Zairin Noor
- 3) Postoperative epidural analgesia compared with intravenous analgesia in major spine surgery: a meta-analysis of clinical efficacy Chaoqun Yuan
- 4) Measurement Discrepancy of Sagittal Parameters between Plain Radiography and 3 Dimensional CT in Normal Vertebral Bodies Yong-Min Kim
- 5) Usefulness of Robot assisted Spine Surgery Min-Seok Kim

15:30-15:42 Poster Session P2-1 MEDvsPELD

Chairman : Fujio Ito (Aichi Spine Institute)

- 1) Translaminar microendoscopic surgery for cranially and foraminally extruded lumbar disc herniation: a report of two cases Yasuhiro Ueda
- 2) Trans-Foraminal Approach of Percutaneous Endoscopic Lumbar Discectomy on the Treatment of Lumbar Disc Herniation Hsieh-Hsing Lee



- 3) Morphometric Analysis of the YESS and TESSYS Techniques of Percutaneous Transforaminal Endoscopic Lumbar Discectomy Gu Xin

15:42-16:02 Poster Session P2-2 MEF

Chairman : Bambang Tiksnadi (Hasan Sadikin Hospital)

- 1) Surgical results of microendoscopic decompression for the lumbar spine with instability. Yasumasa Ohyama
- 2) Clinical result following decompression without fusion in Lumbar Degenerative Spondylolisthesis: preliminary study..... Byung-Joon Shin
- 3) Minimally invasive microscopic decompression for lumbar spinal canal stenosis using tubular retractor..... Koichi Sugimoto
- 4) Modified Marmot operation for patients with more than three levels lumbar spinal stenosis... Mamoru Kawakami
- 5) Clinical outcomes of microsurgical bilateral decompression via unilateral approach with midline spinous process splitting for lumbar spinal stenosis -Minimum of 2 years follow-up Akinobu Suzuki

16:02-16:26 Poster Session P2-3 MED

Chairman : Shisheng He (Shanghai Tenth People's Hospital)

- 1) Endoscopic partial laminectomy for cervical myelopathy using spinous process splitting approach ... Takuya Nikaido
- 2) Comparison between endoscopic and conventional partial laminectomy for cervical myelopathy... Kazuyuki Watanabe
- 3) Incidence and management of dural tears in microendoscopic spine surgery. Kazuhito Soma
- 4) The application of automatic nerve retractor in micro-endoscopic discectomy Yin He Ping
- 5) Percutaneous endoscopic resection for intra-spinal cystic pathologies of the lumbar spine: Report of 3 cases Tetsuya Abe
- 6) Arthroscopic release of the piriformis muscle under local anesthesia for piriformis syndrome ... Yasuhiro Kitagawa

16:26-16:42 Poster Session P2-4 BKP

Chairman : Koichi Sairyo (Teikyo University Mizonokuchi Hospital)

- 1) Transesophageal echocardiogram(TEE) in a Balloon Kyphoplasty(BKP)..... Masahiro Hoshino
- 2) The cement anchor technique for preventing cement dislodgement after Balloon Kyphoplasty for pseudarthrosis of vertebra..... Shinji Tanishima
- 3) Percutaneous discoplasty for painful segmental spinal instability after vertebral compression fracture - a report of two cases Mikihiro Ito
- 4) Percutaneous vertebroplasty for delayed neurologic deficit due to osteoporotic vertebral pseudoarthrosis Masaki Matsuura

16:42-16:58 Poster Session P2-5 Block

Chairman : Seok-Woo Kim (Hallym University Sacred Heart Hospital)

- 1) Usefulness of Ultrasound-guided facet joint block in the Out patient Clinics Tae Kyun Kim



- 2) Clinical results and efficacy of Selective nerve root blocks with Vertebroplasty in treating patient with osteoporotic compression fracture accompanied spinal stenosis showing neurogenic claudication: prospective study Sang-Hyuk Min
- 3) Effectiveness of Selective Nerve Root Block on the Need for Surgical Treatment of Patients with Cervical Radicular Pain - A minimum 5 years follow up - Tae kyun Kim
- 4) The Efficacy and Accuracy of Ultrasonography-Guided Sacral Nerve Block Chang Su Kim

16:58-17:18 Poster Session P2-6 Diagnosis

Chairman : Masatsune Yamagata (Chiba Rosai Hospital)

- 1) Ideal Insertion Point and Angle of Cervical Pedicular Screws in Korean Heui-Jeon Park
- 2) Factors for early pedicle screw pull-out in thorolumbar burst fractures Chang-Hwa Hong
- 3) Biomechanical assessment of minimally invasive decompression for lumbar spinal canal stenosis - A cadaver study Takahiko Hamasaki
- 4) Low Back Pain Intensity in Lumbar Spinal Stenosis Measured By Using the Japanese Orthopaedic Association Score and the Visual Analogue Scale - Frequency Distribution, Responsiveness to the Surgery and Correlation Between the Two Measurements Hiroshi Hashizume
- 5) The influence of spinal sagittal balance on clinical outcomes after microendoscopic laminotomy for patients with lumbar spinal canal stenosis. Sho Dohzono



<p>Saturday, 3 August. Hall A</p>

08:00-08:30 General Session 2-A-1 BKP 2
Chairman : Yukata Hiraizumi (Showa University)

- 1) Kyphoplasty Versus Conservative treatment For painful osteoporotic vertebral compression fractures, Which One Is Better? — A Meta-analysis Liu Tao
- 2) Vertebroplasty Versus Conservative treatment For painful osteoporotic vertebral compression fractures, Which One Is Better? — A Meta-analysis Liu Tao
- 3) Risk Factors for Recollapse of the Treated Vertebrae in Patients with Vertebral Pseudarthrosis after Vertebroplasty Hiromitsu Toyoda
- 4) The Correlation between Amount of Bone Cement and the Clinical and Radiologic results of percutaneous vertebroplasty for osteoporotic vertebral compression fracture Jun-Yeong Park

08:30-09:00 General Session 2-A-2 Fixation 7
Chairman : Tsung-Jen Huang (Chang Gung University)

- 1) Radiographic analysis of one-level minimally invasive transforaminal lumbar interbody fusion (MI-TLIF) with unilateral pedicle screw fixation for lumbar degenerative diseases Shen Xiaolong
- 2) Unilateral pedicle screw fixation plus interbody fusion by Quadrant system through spatium intermusculare of multifidus Li Qingchu
- 3) Immediate posterior fixation for vertebral fractures as a damage control surgery using the MIS system ~ short- term result ~ Wataru Saito

09:10-9:50 General Session 2-A-3 Miscellaneous 1
Chairman : Jwo-Luen Pao (Far-Eastern Memorial Hospital)

- 1) Several controversial points in osteoporotic vertebral fractures Ming-Chau Chang
- 2) Development of Guiding Blocks for Pedicle Insertion in Spinal Surgery Cheng-Li Lin
- 3) Analysis of Cervical Pedicle with Reconstructed Computed Tomography Image in Korean Population: Feasibility and Surgical Anatomy Woo-Kie Min
- 4) The mechanism of the extra-foraminal stenosis of the L5 nerve root by cadaver dissection Hirohiko Inanami
- 5) Three-Dimensional Static and Dynamic Morphometric Study of Neural Foramen in Degenerative Lumbar Scoliosis Sheng-Min Lan

9:50-10:40 General Session 2-A-4 Miscellaneous 2
Chairman : Sohei Ebara (Shonan Fujisawa Tokushukai Hospital)

- 1) Tokuhashi Scoring System in Nasopharyngeal Carcinoma with Spinal Metastasis Naresh Kumar
- 2) Blood Loss in Spine Tumour Surgery - How Much Can the Surgeon Expect? A Meta-analysis Naresh Kumar
- 3) Can Intra-Operative Salvaged Blood be Used in Metastatic Spine Tumour Surgery? A Systematic Review Aye Sandar Zaw



- 4) The Role of Preoperative Vascular Embolization in Surgery for Spinal Metastases..... Tan Wei Loong Barry
- 5) Surgical Treatment of Lumbar Hematogeneous Spondylodiscitis in Intravenous Drug Users Ching-Hsiao Yu
- 6) Skeletal Metastasis in Nasopharyngeal Carcinoma Naresh Kumar
- 7) Neurologic and Functional Outcomes after Traumatic Central Cord Syndrome..... Hong-Moon Sohn



<p>Saturday, 3 August. Hall B</p>

08:00-08:30 General Session 2-B-1 Basic Research 2
Chairman : Yen-Mou Lu (Kaohsiung Medical University)

- 1) A Novel Method of Removing Malignant Cells from Blood Salvaged During Metastatic Spine Tumour Surgery Using A Leucocyte Depletion Filter Naresh Kumar
- 2) Analysis of influences between pain marker and epidural fibrosis for multiple repetitive spinal surgery in S-D rat Young-Yul Kim
- 3) Biomechanical study of dynamic lumbar fixators- A finite-element analysis Shih-Hao Chen
- 4) The effect of adenovirus-mediated siRNA targeting BMPR-II on UHMWPE-induced osteoclast formation Zhongliang Deng

08:30-09:00 General Session 2-B-2 PELD, MED
Chairman : Agus Hadian Rahim (Hasan Sadikin Hospital)

- 1) Percutaneous endoscopic discectomy for thoracic disc herniation and central disc herniation combined with posterior vertebral osteophyte at the upper lumbar segment Fujio Ito
- 2) Percutaneous endoscopic lumbar discectomy - early clinical experience Yu-Han Huang
- 3) Return to Work after Micro Endoscopic Discectomy for Lumbar Disc Herniation Mitsuhiro Hashimoto

09:10-10:00 General Session 2-B-3 Miscellaneous 3
Chairman : Kuo-yuan Huang (National Cheng Kung University Hospital)

- 1) Revision Discectomy combined with Posterior Dynamic Stabilization for Recurrent Lumbar Disc Herniation Yen-Mou Lu
- 2) The Role of Interlaminar Dynamic Stabilization Device (IntraSPINE) in the Treatment of Late Degenerative Problems Bambang Darwono
- 3) Good fusion rate and clinical results of minimally invasive facet fusion with percutaneous pedicle screw system for degenerative lumbar spondylolisthesis Tomohiro Miyashita
- 4) Symptomatic Degenerative Change of Adjacent Discs after Anterior Fusion of Cervical Spine: Minimal 10 years Follow-up Sung-Kyu Kim
- 5) Surgical treatment of lumbar spinal stenosis with associated degenerative scoliosis: fuse or not to fuse Keng-Chang Liu
- 6) Caudal Epidural Steroid Injection in Lumbar Radiculopathy: Does Injection Interval Influence Clinical Outcome? Hyo-Jong Kim

10:00-10:40 General Session 2-B-4 Miscellaneous 4
Chairman : Ming-Chau Chang (Taipei Veterans General Hospital)

- 1) The study of Mobi-C cervical arthroplasty on the treatment of cervical spondylotic radiculopathy Li Qingchu
- 2) The Role of Vessel-X, Vessel-Lock, and SrHA cement in the Treatment of Osteoporotic Vertebral Compression Problems Bambang Darwono



- 3) Finite element analysis of biomechanics for degenerative spine with lumbar disc herniation after posterior discectomy, insertion of interspinous device, or intervertebral cage Kuo-Yuan Huang
- 4) Intraoperative Computed Tomography (iCT) with Integrated Navigation in Spine Surgery. Its Potential in MIS Surgery. Tsung-Jen Huang
- 5) Treatment Outcomes Of Chimney Laminoplasty - Preliminary Report Jwo-Luen Pao