



Program

Friday, 28 July. Room A

08:50-09:00 Opening Remarks
Hiroaki Nakamura (Osaka City Univ.)

09:00-09:30 General Session FA1 Lumbar Spine
Moderators : Hyoung-yeon Seo (Chonnam National Univ. Hosp.)
Kuo-Yuan Huang (National Cheng Kung Univ. Hosp.)

- FA1-1 Less Is Better and Diagnosis before Surgery. -- Alternative Treatment of Lumbar Radiculopathy with Transforaminal Epidural Steroid Injections..... Jui-Yang Hsieh
 - FA1-2 Different Clinical Results between Triamcinolone and Methylprednisolone ESI : Randomized Double Blind Prospective Study..... Warat Tassanawipas
 - FA1-3 A Prospective Comparative Study of Clinical Outcomes for Lumbar Spine Surgery in Elderly Patients Older than 80 years old Evaluated with JOABPEQ and Patient Satisfaction Hiroyuki Yasuda
 - FA1-4 Degenerative Spondylolisthesis (Ds) Is it Always Unstable? - A New Scoring System To Implement Value Based Spine Care..... Arvind Gopalrao Kulkarni
- Discussion

09:30-10:00 General Session FA1 Lumbar Spine
Moderators : Hyoung-yeon Seo (Chonnam National Univ. Hosp.)
Zhao Min Zheng (The First Hosp. Affiliated to Sun Yat-Sen Univ.)

- FA1-5 Correlations between the SF-36, the Oswestry-Disability Index and Rolland-Morris Disability Questionnaire in Patients Undergoing Lumbar Decompression According to Types of Spine Origin Pain..... Sangbong Ko
 - FA1-6 Prevalence of High-intensity Zones in the Lumbar Spine According to Age and Their Correlation with Other Degenerative Findings on Magnetic Resonance Imaging..... Makoto Takeuchi
 - FA1-7 Correlation between Sedimentation Sign, Dural Sac Cross-sectional Area and Clinical Symptoms of Degenerative Lumbar Spinal Stenosis Sangbong Ko
 - FA1-8 Correlation between Cervical and Lumbar Spinal Canal Diameter: Analysis of CT scan in 256 Korean Population..... Kyung-Chung Kang
- Discussion

10:00-10:30 General Session FA2 Cervical Spine
Moderators : Tsung-Jen Huang (Taipei Medical Univ. Hosp.)
Chong-Suh Lee (Samsung Medical Center)

- FA2-1 Minimally Invasive Posterior Microscopic Foraminotomy can Improve Radicular Pain and the Alignment of Cervical Spine after Surgery Yoshikazu Yanagisawa



- FA2-2 Clinical Results of Posterior Cervical Microendoscopic Surgery for Cervical Spondylotic Amyotrophy Yukihiro Nakagawa
 - FA2-3 Surgical Results of Cervical Micro Endoscopic Laminectomy for Cervical Myelopathy Atsushi Tagami
 - FA2-4 Factors Relating Successful Ventilator Weaning in Cervical Spinal Cord-Injured Patients Torphong Bunmaprasert
- Discussion

10:30-11:00 General Session FA2 Cervical Spine
 Moderators : Tsung-Jen Huang (Taipei Medical Univ. Hosp.)
 Warat Tassanawipas (Army Hosp.)

- FA2-5 Full-endoscopic Cervical Foraminotomy is a Promising Surgery for Lower-level Cervical Spondylotic Radiculopathy Koichiro Ono
 - FA2-6 Percutaneous Endoscopic Cervical Decompression- Anterior, Transcorporeal and Posterior Approach Fujio Ito
 - FA2-7 The Natural Course of Prevertebral Soft-tissue Swelling after Anterior Cervical Spine Surgery; How long will it last? Seok Woo Kim
 - FA2-8 Reoperation Rate of Microscope-Assisted and Non-Microscope Anterior Cervical Discectomy and Fusion (ACDF) for Treatment of Degenerative Cervical Myeloradiculopathy Torphong Bunmaprasert
- Discussion

11:00-11:50 General Session AO Best Paper
 Moderators : Po-Quang Chen (National Taiwan Univ. Hosp.)
 June Kyu Lee (Chungnam National Univ. Hosp.)

- AO1 Efficacy of E.coli-derived rhBMP-2 in Posterolateral Lumbar Fusion: an open, active-controlled, randomized, multicenter trial Jae Hyup Lee
 - AO2 Comparing Clinical Results between Minimally Invasive Endoscopic Surgery and Traditional Anterior Open Surgery for Infectious Spondylodiscitis: A Cohort Study of 84 Patients Hsien-Te Chen
 - AO3 The Incidence of Additional Spine Surgery after Microscopic Decompression Surgery for Lumbar Canal Stenosis: An Average Nine-year follow-up Using a Surgical Database Study from A Single Institute Yasushi Fujiwara
 - AO4 Good Clinical Outcomes in Nonunion Cases after Facet Fusion with A Percutaneous Pedicle Screw System for Degenerative Lumbar Spondylolisthesis Tomohiro Miyashita
 - AO5 Clinical Application of PSLD (Percutaneous Stenoscopic Lumbar Decompression) in Degenerative Lumbar Spine Diseases KangTaek Lim
- Discussion

12:00-13:00 Luncheon Seminar 1
 Moderator : Akira Dezawa (Dezawa Akira PED Clinic)
 Co-sponsored by Mizuho Corp. & Siemens K.K.

- LS1 Newly developed technique: "Anterior VATS ECIF-A" and "Posterior ECIF-P" using 'Correction Box' for Scoliosis surgery in our advanced Spine Hybrid OR with Artis zeego Sohei Ebara



13:20-13:50 PAMISS Seminar

Moderator : Masatsune Yamagata (Chiba Rosai Hosp.)

Co-sponsored by Aichi Spine Hospital

PS Trans-Sacral Epiduroscopic Laser Decompression (SELD) Zenya Ito

14:00-14:30 General Session FA3 Micro/MED

Moderators : Heui Jeon Park (Wonju Severance Christian Hosp.)

Hiroshi Yamada (Wakayama Medical Univ.)

FA3-1 Stand-alone Lateral Recess Decompression without Discectomy in Patients Presenting with Neurogenic Claudication and MRI evidence of Large Disc Protrusions: A five year study ' Arvind Gopalrao Kulkarni

FA3-2 Prevalence and Impact on Outcome of Reoperation Following Minimally Invasive Decompression Alone for Degenerative Lumbar Disease Minori Kato

FA3-3 Comparative Outcome Between Microscopic Decompression Without Posterior Stabilization and Open Decompression With Posterior Stabilization for Lumbar Disc Herniation: A Case Series Study I Glna Artha Wiguna

FA3-4 Pros & cons of percutaneous endoscopic interlaminar approach versus microendoscopic technique Akira Dezawa

Discussion

14:30-15:00 General Session FA3 Micro/MED

Moderators : Heui Jeon Park (Wonju Severance Christian Hosp.)

Eung Ha Kim (Soonchunhyang Univ. Bucheon Hosp.)

FA3-5 Surgical Experiences in Lumbar Disc Herniation by Minimal Invasive Surgery in Sanglah General Hospital: A Case Series I Ketut Suyasa

FA3-6 Advanced MED Surgery with Lens-cleaning System and 10 mm-TR Motohide Shibayama

FA3-7 Micro-endoscopic Decompression Surgery via Midline Approach for Lumbar Spinal Canal Stenosis - Clinical Results and Radiological Assessments after more than 10 years of follow-up - Masateru Nagae

FA3-8 Learning Curve of Micro-endoscopic Discectomy in An-Nan Hospital: Results of First 25 Cases Cheng-Hsin Cheng

Discussion

15:00-15:30 General Session FA4 LLIF1

Moderators : Ruey-Mo Lin (An Nan Hosp., China Medical Univ.)

Tiksnadi Bambang (Dr.Hasan Sadikin Hosp.)

FA4-1 The Fate and Clinical Impact of Early Cage Subsidence after OLIF Surgery Se-Jun Park

FA4-2 A New Surgical Technique to Avoid Iatrogenic End Plate Injury in XLIF Procedure Takahiro Maeda

FA4-3 Radiographic Evaluation of Intervertebral Cage Subsidence in Lateral Retroperitoneal Transposas Lumbar Interbody Fusion Shunji Tsutsui

FA4-4 Early and Midterm complications in Oblique Lumbar Interbody Fusion Surgery Reza Rahim

Discussion

15:30-16:00 General Session FA4 LLIF1
 Moderators : Ruey-Mo Lin (An Nan Hosp., China Medical Univ.)
 Dae-Moo Shim (Wonkwang Univ. Hosp.)

- FA4-5 Speed of Fusion in Oblique Lumbar Interbody Fusion using BMP and Allograft Blocks Reza Rahim
- FA4-6 Withdraw
- FA4-7 Comparison of Surgical Results between Minimally Invasive LLIF and Open PLIF in the Treatment of Single-Level Spondylolisthesis Jae Chul Lee
- FA4-8 Efficacy of Vertebral Rotational Reduction by Using Lateral Lumbar Interbody Fusion for Cases with Adult Spinal Deformity Masanari Takami
- Discussion

16:00-16:30 General Session FA5 MIST
 Moderators : Koji Sato (Japanese Red Cross Society, Nagoya Daini Hosp.)
 Takanori Saito (Kansai Medical Univ.)

- FA5-1 Preliminary Report of Stand-Alone Transforaminal Lumbar Interbody Fusion with Cage Cheng-Hsin Cheng
- FA5-2 Minimally Invasive Transforaminal Lumbar Interbody Fusion (TLIF) : Clinical Application and Learning Curve Jae-Young Hong
- FA5-3 2 Level Lumbar Degenerative Disease that was Treated with MIS-TLIF for Minimum 2-years follow up Hyun Seung Yoo
- FA5-4 Radiation Reduction of Minimally Invasive Transforaminal Lumbar Interbody Fusion with Localization System in Overweight Patients Guoxin Fan
- Discussion

16:30-16:50 General Session FA5 MIST
 Moderators : Kazuo Nakanishi (Kawasaki Medical School)
 Chang-Hoon Jeon (Ajou Univ. Medical Center)

- FA5-5 Early Result of Microendoscopy-assisted Minimal Invasive Transforaminal Lumbar Interbody Fusion for Lumbar Degenerative Disease Yu-Han Huang
- FA5-6 Minimally Invasive Transforaminal Lumbar Interbody Fusion (MIS-TLIF) in the Use of Intraoperative Computed Tomography (iCT) with Navigation System Yen-Yao Li
- FA5-7 Early Failure of Cortical Bone Screw Fixation in the Lumbar Spine: A Single Institutional Experience Yung Park
- Discussion

17:00-18:00 Evening Seminar 1
 Moderator : Munechito Yoshida (Sumiya Orthopaedic Hosp.)
 Co-sponsored by NuVasive Inc.

- ES1 Surgical Tips and Pitfalls in Anterior, Lateral and Posterior Procedures for Adult Spinal Deformities Tomoaki Toyone



18:00-18:40 General Session AP Best Poster

Moderators : Seok-Woo Kim (Hallym Univ. Sacred Heart Hosp.)
Koichi Sairyo (Tokushima Univ.)

- AP1 Survival Analysis based on New Fracture at Adjacent Vertebrae after Vertebroplasty or Kyphoplasty Jung-Hoon Kim
 - AP2 Clinical and Radiological Outcome of Muscle-preserving Interlaminar Decompression for Lumbar Spinal Canal Stenosis in Patients with or without Kissing Spine Hitoshi Tonomura
 - AP3 Minimally Invasive Percutaneous Correction for Degenerative Lumbar Scoliosis more than Cobb Angle 30 Degrees with Lateral Interbody Fusion and Percutaneous Pedicle Screw System Tomohisa Harada
 - AP4 Radiological and Clinical Long-term Results of Heterotopic Ossification following Lumbar Total Disc Replacement Chong-Suh Lee
 - AP5 Radiological Status of Multifidus Muscle after Biportal Endoscopic Spinal Surgery (BESS) Ho-Jin Lee
 - AP6 Association between Droopy Shoulder and Degenerative Changes in the Cervical Spine Kazushi Takayama
 - AP7 Does Additional Uncinate Resection Increase Pseudarthrosis Following Anterior Cervical Discectomy and Fusion? Dong-Eun Shin
- Discussion

Friday, 28 July. Room B

15:00-15:30 General Session FB4 OVF/BKP
 Moderators : Luthfi Gatam (Fatmawati General Hosp.)
 Jian Wang (Xinqiao Hosp.)

- FB4-1 Radiculopathy Due to Retropulsed Bony Fragments After Kyphoplasty- Its Clinical Manifestation and Treatment Chung-Ting Wu
 - FB4-2 Stabilizing the Unstable Osteoporotic Vertebral Fracture is Critical to Preventing the Further Progression of Spinal Canal Stenosis due to Fractured Vertebrae Toshihiro Imamura
 - FB4-3 Comparison of Percutaneous Vertebroplasty with and without Kyphoplasty by SpineJack for the Treatment of Elderly Vertebral Compression or Burst Fractures Yen-Po Fang
 - FB4-4 Clinical Outcomes of Percutaneous Kyphoplasty Alone for Thoracolumbar Burst Fractures in Elderly Patients Ju-Feng Hsueh
- Discussion

15:30-16:00 General Session FB4 OVF/BKP
 Moderators : Luthfi Gatam (Fatmawati General Hosp.)
 Seang-Beng Tan (Singapore General Hosp.)

- FB4-5 Risk Factors for Newly Developed Vertebral Compression Fractures Following Treatment for Osteoporotic Vertebral Compression Fractures Dong-Yun Kim
 - FB4-6 Prophylactic Augmentation Effectively Decrease the Fracture Risk of Adjacent Vertebrae after Vertebroplasty or Kyphoplasty Jwo-Luen Pao
 - FB4-7 Adequate Cement Volume for over 40% Collapsed Thoracolumbar Osteoporotic Vertebral Compression Fractures with Percutaneous Balloon Kyphoplasty Jae Chul Byun
 - FB4-8 Radiological Results of Double Balloon Inflation Technique during Kyphoplasty Sung Kyun Oh
- Discussion

16:00-16:50 General Session FB5 Basic
 Moderators : Shing-Sheng Wu (Shin Long Wu Ho-Su Memorial Hosp.)
 Thavat Prasarthitha (Thainakarin Hosp.)

- FB5-1 mRNA LBX1 Genome Expression as Distinct Susceptibility Profile for Adolescent Idiopathic Scoliosis In Indonesia Yudha Mathan Sakti
 - FB5-2 Novel Correlation of mRNA Estrogen Receptor (ESR) Genome Expression in Adolescent Idiopathic Scoliosis Cases Didik Setyo Heriyanto
 - FB5-3 The Differentiation Property and Behavior in Progenitor Cells of Vertebral Endplate, Disc and Ligamentum Flavum Kuo-Yuan Huang
 - FB5-4 Material Characterization of a Synthetic, Highly Resorbable Calcium-based Bone Substitute and its Clinical use in Filling Implant Removal-derived Bone Defects Sheng-Min Lan
- Discussion



- FB5-5 Bioavailability of Human Osteoblast and Fibroblast Cells Towards In-House Machinery Processing of Titanium Alloy Grade 2 and Stainless Steel 316 L Yudha Mathan Sakti
 - FB5-6 Biomechanical Insertion Properties on Different Thread and Core Design of Indonesian Customized Pedicle Screw (Comparison of V-Thread Cylinder Core, Square-Thread Cylinder Core and Square-Thread Conical Core)..... Yudha Mathan Sakti
 - FB5-7 Withdraw
- Discussion

17:00-18:00 Evening Seminar 2

Moderator : Toru Hasegawa (Kawasaki Medical School)

Co-sponsored by Stryker Japan K.K.

- ES2 Lateral Lumbar Interbody Fusion (LLIF) as a Minimally Invasive Spine Surgery- Now and the Future Jun Mizutani

Saturday, 29 July. Room A

07:00-07:40 General Session FA6 BESS/CSF leakage
 Moderators : Jae-Sung Ahn (Chungnam National Univ. Hosp.)
 Keng-Chang Liu (Buddhist Dalin Tzu Chi General Hosp.)

- FA6-1 Biportal Endoscopic Spinal Surgery; A new endoscopic technique for transforaminal discectomy and decompression Ho-Jin Lee
- FA6-2 Preliminary Learning Cases of Unilateral Biportal Endoscopic Spine Surgery in Stenosis and Disc Protrusions Seung Deok Sun
- FA6-3 Unilateral Biportal Endoscopic Decompression by 30 Aoendoscopy in Lumbar Spinal Stenosis Ju Eun Kim
- Discussion
- FA6-4 Bi-portal Arthroscopic Spinal Surgery (BASS) with 30Ao Arthroscopy for Far Lateral Approach of L5-S1 -Technical Note- Ju Eun Kim
- FA6-5 Efficacy of Blood Injection Therapy for Stopping Cerebrospinal Fluid Leakage after Lumbar Spine Surgery Masatoshi Teraguchi
- FA6-6 Are CSF leaks forgiving in Minimally Invasive Spine Surgeries? Arvind Gopalrao Kulkarni
- Discussion

08:00-09:00 Morning Seminar
 Moderator : Shinichi Konno (Fukushima Medical Univ.)
 Co-sponsored by Johnson & Johnson K.K. Depyu Synthes Japan

- MS MIS (Minimum Invasive Surgery) prevalence in Spine Surgery A decade experience in regional spine center Tsuyoshi Okudaira

09:00-09:30 General Session FA7 Trauma
 Moderators : Ki-Tack Kim (Kyung Hee Univ. Hosp. at Gangdong)
 Ken Ishii (International Univ. of Health and Welfare)

- FA7-1 Percutaneous Screw Fixation for Unstable Sacral Fracture and Sacroiliac Joint Disruption Chung-Hwan Chen
- FA7-2 Another Diagnostic Tool in Thoracolumbar Posterior Ligament Complex Injury: Interspinous Distance Ratio Ki Youn Kwon
- FA7-3 The Validity of the Thoracolumbar Injury Classification System in Thoracolumbar Spine Injuries Sung-Kyu Kim
- FA7-4 Anterior Atlas Fracture Following C1 Laminectomy which was Successfully Treated by Conservative Treatment: A Case Report Takahiro Harada
- Discussion



09:30-09:50 General Session FA7 Trauma

Moderators : Ki-Tack Kim (Kyung Hee Univ. Hosp. at Gangdong)
Pairoj Warachit (Hatyai Hosp.)

- FA7-5 Experience in Treating Unstable Pelvic Fracture Using MIS-SPF at Our Hospital..... Seiya Watanabe
 - FA7-6 Minimally Invasive Spine Stabilization for Thoracolumbar Burst Fracture Keisuke Tomita
 - FA7-7 Minimally Invasive Spinal Surgery with Using Video-Assisted Thoracic Surgery (VATS) for the Management of Thoracolumbar Burst Fractures Kazuhiro Takeuchi
- Discussion

10:00-10:30 General Session FA8 Navigation/Complication

Moderators : Shuxun Hou (The First Affiliated Hosp. of Chinese PLA General Hosp.)
Yen-Mou Lu (Kaohsiung Medical Univ. Hosp.)

- FA8-1 Spine Endoscopic Treatment under O-arm navigation for Lumbar Degenerative Scoliosis Patient: A Technical Note Chien-Chun Chang
 - FA8-2 Comparison of Minimally Invasive Spine Surgery Using Intraoperative Computed Tomography Integrated Navigation, Fluoroscopy and Conventional Open Surgery for Lumbar Spondylolisthesis: A Prospective Registry-based Cohort Study Meng-Huang Wu
 - FA8-3 Pitfalls in Robotic Spine Surgery Yen-Mou Lu
 - FA8-4 Direct Repair of Lumbar Pars Interarticulars Defects by Utilizing Intraoperative O-arm Based Navigation and Microendoscopic Technique..... Jian Wang
- Discussion

10:30-11:00 General Session FA8 Navigation/Complication

Moderators : Shuxun Hou (The First Affiliated Hosp. of Chinese PLA General Hosp.)
Shih-Hao Chen (Tzu-Chi Hosp.)

- FA8-5 Application of Intraoperative CT-guided Navigation in Simultaneous Minimally Invasive Anterior and Posterior Surgery for Infectious Spondylitis..... Meng-Huang Wu
 - FA8-6 Cranial Adjacent Segment Disease after Posterior Lumbar Interbody Fusion in Patients with Degenerative Lumbar Spondylolisthesis by Cortical Bone Trajectory Technique..... Kanji Mori
 - FA8-7 Examination of the Accuracy of Percutaneous Pedicle Screw Fixation and the Factor of Misplacement Tsunemasa Matsubara
 - FA8-8 Clinical Outcomes of the VATS of Revision Surgery for Osteoporotic Vertebral Fractures in Elderly Patients Kazuo Nakanishi
- Discussion

11:00-11:35 General Session FA9 Deformity

Moderators : Ming Chau Chang (Taipei Veterans General Hosp.)
Charoen Chotigavanich (Samitivej Srinakarin Hosp.)

- FA9-1 Comparative Study of S2-alar-iliac screw and Posterior iliac screw Pathways Between Male and Female Using Three-dimensional Computed Tomography Haruki Funao



- FA9-2 Dual Growing Rods Treatment for Progressive Pediatric Spinal Deformity Seungjin Choi
- FA9-3 Combined anterior-posterior fusion using lateral interbody fusion for adult spinal deformity.
Assessments of obtained lordosis. Eijiro Okada
- Discussion**
- FA9-4 Clinical Outcome of Multiple OLIFs and Hybrid MIS Posterior Correction and
Instrumentation for Adult Spinal Deformities Yoshihisa Kotani
- FA9-5 Clinical Comparison of Two Spinal Reconstruction Techniques for Osteoporotic Vertebral
Collapse: OLIF with Percutaneous Modified CBT screw vs Open TLIF with Modified CBT
screw Ryo Fujita
- Discussion**

12:00-13:00 Luncheon Seminar 2
 Moderator : Motonobu Natsuyama (Shima Neurosurgical Orthopedic Hosp.)
 Co-sponsored by Eli Lilly Japan K.K.

- LS2 Insertion of Bilateral Percutaneous Pedicle Screws in a Lateral Decubitus Position Wataru Narita

13:10-13:50 General Session FA10 LLIF2
 Moderators : Jae Chul Lee (Soonchunhyang Univ. Seoul Hosp.)
 Jwo-Luen Pao (Far-Eastern Memorial Hosp.)

- FA10-1 Clinical Results of Minimally Invasive Anterolateral Interbody Fusion and Percutaneous
Posterior Fixation in Lateral Position for Lumbosacral Degenerative Disorders Yoshihisa Kotani
- FA10-2 Is Change of Lumbar Lordosis after Oblique Lateral Interbody Fusion Predictable? Jae Won Lee
- FA10-3 Contoributory Factors of Segmental Lordosis in Lumber Spine after LLIF Yoshitaka Suzuki
- Discussion**
- FA10-4 Oblique Lateral Interbody Fusion, Preliminary Experience Jwo-Luen Pao
- FA10-5 Comparison of Segmental Dimensional Change and Perioperative Complications between
OLIF and ALIF at L5-S1 Segment Chang-Hoon Jeon
- FA10-6 Anatomic Study of the Great Vessels for L5-S1 Oblique Lumbar Interbody Fusion Reza Rahim
- Discussion**

13:50-14:00 Closing Remarks
 Hiroaki Nakamura (Osaka City Univ.)



Saturday, 29 July. Room B

09:00-10:00 General Session FB7 Miscellaneous

Moderators : Weonwook Park (Parkweonwook Hosp.)
Yutaka Hiraizumi (Showa Univ.)

- FB7-1 A Novel Anterior Percutaneous Endoscopic Lumbar Interbody Fusion ; Key-field One Portal Lumbar Interbody Fusion (KyoLIF)..... Yoshinori Kyoh
FB7-2 A New Technique of C1 Lateral Mass Screw Insertion via A Suboccipital Triangle.... Takamitsu Tokioka
FB7-3 Percutaneous Rhizotomy (Bipolar radiofrequency denervation) for Lumbar Facet Joint and Sacroiliac Joint Pain: A Prospective Study with One Year Follow-up Temee Sathienrat
FB7-4 Three Cases of L4-5 Baastrup's Disease due to L5-S1 Spondylolytic Spondylolisthesis..... Sang Soo Eun
Discussion
FB7-5 Minimally Invasive Surgery of Dumbbell-type Neurinoma: A Novel Surgical Technique with Preservation of the Facet Joint Hiroshi Kono
FB7-6 Usefulness of New Boomerang Type Cage for Lumbar Lordosis Gain with Single Level MIS-TLIF Junichi Ukai
FB7-7 Hybrid Fixation with Interspinous Fusion Device and Ipsilateral-Unilateral Pedicle Screw System for Transforaminal Lumbar Interbody Fusion - A Finite Element Study Meng-Huang Wu
FB7-8 Supra-acetabular Line is Better than Supra-iliac Line for Coronal Balance Referencing - A study of Perioperative whole Spine X-rays in Spinal Deformity Patients Hyung-suk Juh
Discussion

10:00-10:30 General Session FB8 PELD1

Moderators : Yen-Yao Li (Chang-Gung Memorial Hosp. in Chiayi)
Naresh Kumar (National Univ. Hosp.)

- FB8-1 Risk Assessment of Abdominal and Retroperitoneal Organ Injuries Performing Transforaminal Percutaneous Endoscopic Lumbar Discectomy Fumitake Tezuka
FB8-2 The Usefulness of Surgical Techniques and The Management of Local Anesthesia to Avoid Exiting Nerve Root Injury During Percutaneous Endoscopic Lumbar Discectomy..... Seiji Yamaya
FB8-3 Morphological Analysis of the Intervertebral Foramen for the Safer Performance of TF-PELD and TF-PEVF..... Masahiro Kashima
FB8-4 Strategy and Clinical Results of Percutaneous Endoscopic Interlaminar Decompression (PEID) for Recurrent Lumbar Disc Herniation with Lateral Recess Stenosis Keng-Chang Liu
Discussion

10:30-10:50 General Session FB8 PELD1

Moderators : Yen-Yao Li (Chang-Gung Memorial Hosp. in Chiayi)
Yi Hung Huang (Chia Yi Christian Hosp.)

- FB8-5 Importance of An Appropriate Facilitator and Equipment in Starting a Percutaneous Endoscopic Lumbar Discectomy via the Interlaminar Method Takeshi Hori



- FB8-6 Percutaneous Endoscopic Translaminar Approach (PETA) for Herniated Nucleus Pulposus Cranially Migrated in the Preforaminal Zone of the Hidden Zone of the Lumbar Spine Shigeki Urayama
 - FB8-7 Percutaneous Endoscopic Lumbar Nerve Decompression (PELND) of the Fifth Lumbar Spinal Nerve in the Extraforaminal Area of the Lumbosacral Junction Shigeki Urayama
- Discussion

11:00-11:40 General Session FB9 PELD2
 Moderators : Noor Helmi Zairin (Medical Faculty of Lambung Mangkurat Univ.)
 Hee-Kit Wong (National Univ. of Singapore)

- FB9-1 Early Result Comparison between Instrumented Fusion and Percutaneous Endoscopic Decompression for Spondylolisthetic Stenosis Yi Hung Huang
 - FB9-2 The Impact of Navigator-assisted Device on Radiation Exposure in Transforaminal Percutaneous Endoscopic Lumbar Discectomy Shisheng HE
 - FB9-3 Trajectory-guided Technique of Transforaminal Percutaneous Endoscopic Lumbar Discectomy for L5-S1 Lumbar Disc Herniation with High Crest: A Prospective Control Study · Guoxin Fan
- Discussion
- FB9-4 Full-endoscopic Lumbar Discectomy for the Upper Migrated Lumbar Disc Herniation Koichiro Ono
 - FB9-5 The Efficacy of Percutaneous Laser Disc Decompression for Treating Lumbar Disc Pathology Harmantya Mahadhipta
 - FB9-6 Endoscopic Decompression Surgery via a Transforaminal Approach under Local Anesthesia for Lateral Recess Stenosis Due to Lumbar Degenerative Disease..... Seiji Yamaya
- Discussion

13:10-13:40 General Session FB10 Infection
 Moderators : Huilin Yang (The First Affiliated Hosp.)
 Agung Irianto Komang (Surabaya Orthopedi & Traumatology Hosp.)

- FB10-1 Is Minimally Invasive Spine Surgery a Blessing to Minimise SSI(Surgical Site Infections)? Arvind Gopalrao Kulkarni
 - FB10-2 The Posterior Fixation Surgery Using Instrumentation without Anterior Debridement as a Primary Surgery for the Treatment of Thoracolumbar Pyogenic Spondylodiscitis Tetsuhiro Ishikawa
 - FB10-3 Surgical Usage of a Cortical Bone Trajectory Pedicle Screw to Treat Lumbar Pyogenic Spondylodiscitis - Preliminary Report - Young-Yul Kim
 - FB10-4 Clinical Effectiveness and Limitation of Percutaneous Endoscopic Surgery for Pyogenic Spondylodiscitis in the Thoracic and Lumbar Spine Daisuke Ukeba
- Discussion



Poster Viewing Friday, 28 July. 15:00-18:40 / Saturday, 29 July. 07:00-13:00 Room C

- P01 The Effectiveness of Decompression Alone Compared with Additional Fusion for Lumbar Spinal Stenosis with Degenerative Spondylolisthesis: A Comparative Study of Micro Endoscopic Decompression (MED) and Posterior Lumbar Interbody Fusion (PLIF)..... Yasumasa Ohyama
- P02 Semi-circumferential Decompression: Microsurgical Total en-bloc Ligamentum Flavectomy to Treat Lumbar Spinal Stenosis with 2 Level Grade I Degenerative Spondylolisthesis..... Young-Sang Lee
- P03 Clinical Results of Navigation-assisted Microendoscopic Laminectomy for Lumbar Canal Stenosis Shinji Kotaka
- P04 The Use of Shril For Foraminoplastic Approach in Percutaneous Endoscopic Lumbar Discectomy For Very High-grade Migrated Lumbar Disc Herniation..... Yung-Ha Wu
- P05 Medical Economic Efficiency of Percutaneous Endoscopic Lumbar Discectomy in Japan Akihiro Nagamachi
- P06 Lumbar Foraminal Stenosis due to Calcification of Yellow Ligament Associated with Hyperthyroidism Treated with Percutaneous Endoscopic Foraminoplasty : A Case Report Ryosuke Yanai
- P07 Minimally Invasive Spinal Decompression Surgery Using Arthroscopy (Bipotal Endoscopic Surgery) Si Young Park
- P08 Accuracy of Percutaneous Pedicle Screw Placement in the Lateral Decubitus Position: Characteristics of Screw Deviation in the Early Stage of Establishment..... Shinya Arataki
- P09 Direct Repair of Pars Defect in Lumbar Spondylolysis Using Bucks Technique..... Tae-Yang Shin
- P10 Surgical Usage of a Cortical Bone Trajectory Pedicle Screw to Treat Lumbar Pyogenic Spondylodiscitis - Preliminary Report - Kee-Won Rhyu
- P11 Comparison of the clinical outcomes of minimally invasive decompression with those of minimally invasive decompression and fusion in patients with degenerative spondylolisthesis with instability- CBT-PLIF versus MEL with a minimum follow-up of 2 years Kazunori Hayashi
- P12 The Treatment of O-arm Assisted Long Construct Minimally Invasive Spinal Stabilization Hsi-Hsien Lin
- P13 Disc Herniation after Oblique Lumbar Interbody Fusion : A Case Report Dong-Eun Shin
- P14 Learning Curve of Minimally Invasive Surgery Oblique Lumbar Interbody Fusion for Degenerative Lumbar Diseases..... Jian Wang
- P15 Vertebral Body Fracture after Oblique Lumbar Interbody Fusion in Two Patients : Case Report..... Sangbum Kim
- P16 Indirect Decompression for Synovial Cyst in the Lumbar Spine..... Masashi Sato
- P17 Minimally Invasive Surgery (MIS) for Pyogenic Spondylitis Takahiro Hayashi
- P18 Less Invasive Surgical Treatment of Posterior Instrumentation without Anterior Debridement for Infectious Spondylitis..... Hyoung-yeon Seo
- P19 Does Polymethylmethacrylate Augmentation of Pedicle Screw Fixation Improve Focal Kyphosis in Patients with Osteoporotic Vertebral Compression Fracture?..... Jong-Min Baik



- P20 Mini-open Retro-pleural Diaphragm Detaching Approach to the Thoracic-lumbar Junction for Osteoporotic Vertebral Fracture Jun-ichiro Nakamura
- P21 T12 Corpectomy, Anterior Instrumentation and Percutaneous Pedicle Screw Fixation for very severely collapsed Osteoporotic Vertebral Compression Fracture in the Super-elderly : A Case Report..... Chul-Woong Kim
- P22 Postural Reduction and Stabilization with Minimal Invasive Technique in Severe Osteoporotic Vertebral Compression Fracture Patient Seung Pyo Suh
- P23 Percutaneous Intervertebral Cement Injection for Thoracic Myelopathy due to Intervertebral Instability: A Case Report..... Yuto Kobayashi
- P24 Differences in Clinical and Radiological Outcomes Depending on Timing of Balloon Kyphoplasty for Painful Osteoporotic Vertebral Fracture Shinji Takahashi
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