

Program

Fri, 7 August. Tsuru 1(Hall1)

7:50-8:00	Opening Remarks		
8:00-9:30	Symposium 1	Chairmen	Dr. Chul-Hyung Kang (Korea)
	LDH		Dr. Shao-Keh Hsu (Taiwan)
	1) A Combination Procedure with Radiowave Disc Treatment for Herniated Disc : A basic investigation and prospective study		.....Stefan Hellinger
	2) The Clinical Results of Foraminoplasty in PED and MED Procedure		..... Akira Dezawa
	3) The Long-term Clinical Results of Microendoscopic Disectomy for the Lumbar Disc Herniation		.....Masaki Kawai
	4) Complications Associated with Endoscopic Disectomy Nation-wide Survey in Japan		.....Morio Matsumoto
	5) Percutaneous Endoscopic Lumbar Disectomy by contralateral approach for Distally Migrated Hernia		.....Jae Yoon Chung
	6) State of the Arts and Pitfall of Percutaneous Endoscopic Lumba Disectomy		.....Gun Choi
9:50-11:20	Symposium 2	Chairmen	Dr. Chang-Hoon Jeon (Korea)
	Osteoporosis		Dr. Subroto Sapardan (Indonesia)
	1) Balloon Kyphoplasty for Patients with Painful Vertebral Compression Fractures: Japanese study preliminary report		.....Daisuke Togawa
	2) Endoscopic Percutaneous Transpedicular Vertebroplasty and Kyphoplasty with Calcium Phosphate Cement for Osteoporotic Vertebral Compression Fractures		.....Yasuhiro Nanri
	3) Clinic Application of IntraVertebral Expandible Pillar(IVEP) in Vertebral Compression Fracture		.....Shing-Sheng Wu
	4) Vesselplasty using SrHA New cement (Osteo-G®). A Preliminary Report		.....Darwono A. Bambang
	5) Advances in Management of Vertebral and Sacral Fractures: Kyphoplasty and Beyond		.....Anand Agarwal
	6) Comparative Study on Osteoporotic Vertebral Compression Fracture Treated with Kyphoplasty and Vertebroplasty		.....Yang Hui-lin
11:30-12:30	Luncheon Seminar 1	Chairman	Dr. Toru Hasegawa (Japan)
	Percutaneous Ballooning Kyphoplasty for Osteoporotic Spinal Compression Fractures		.....Hak-Sun Kim

Fri, 7 August. Tsuru 2(Hall2)

8:00-8:40	Session 1-2-1	Chairmen	Dr. Heui-Jeon Park (Korea)
	LSS1		Dr. Tsung-Jen Huang (Taiwan)

- 1) Bilateral Decompression in Lumbar Degenrative Stenosis Associated with Unilateral Approach under Minimally Invasive Microendoscopic (METRx) Zhou Yue
- 2) Less Invasive Decompression without Fusion for Degenerative Lumbar Spondylolisthesis: Minimum 5 years follow-up Tomoaki Toyone
- 3) Percutaneous Transforaminal Endoscopic Decompression for Lumbar Lateral Recess and Foraminal Stenosis(Preliminary Study) Shao-keh Hsu
- 4) A Clinical Prospective Study on the Operative Invasion for Lumbar Spinal Canal Stenosis: Comparison between microendoscopic and microscopic posterior decompression Hidetomi Terai
- 5) Microendoscopic Muscle-Preserving Interlaminar Decompression for Lumbar Spinal Canal Stenosis Mitsunori Yoshimoto

8:40-9:28	Session 1-2-2	Chairmen	Dr. Motonobu Natsuyama (Japan)
	LSS2		Dr. Ruey-Mo Lin (Taiwan)

- 1) What is Factors Influencing Postoperative Early Clinical Outcomes of Redundant Nerve Root in Lumber Spinal Canal Stenosis? Hideaki Iba
- 2) Comparing The Clinical Outcomes Of Microscopic Versus Microendoscopic Over-The-top Laminoplasty in Lumber Spinal Canal Stenosis Kenji Kano
- 3) Clinical and Radiological Outcome of Endoscopic Bilateral Decompression with Unilateral Approach (endo-BiDUA) for Elderly Patients with Lumbar Spinal Canal Stenosis Koichi Sairyo
- 4) Prospective Evaluation of Clinical Outcome Following Minimally Invasive Segmental Laminoplasty for Lumbar Canal Stenosis Prasanna Guansena
- 5) Comparing the Clinical Outcomes of Bilateral TLIF using Conventional Midline Approach, Bilateral TLIF using Wiltse's Approach and Unilateral TLIF Dae-Woo Hwang
- 6) Distractive Indirect Decompression by using Wallis Seong Jun Ahn

9:50-10:38	Session 1-2-3	Chairmen	Dr. Yen-Yao Li (Taiwan)
	VATS / Thoracolumbar		Dr. June-Kyu Lee (Korea)

- 1) The Changes of Proximal Thoracic Curve and Shoulder Balance in Thoracic Adolescent Idiopathic Scoliosis Treated by VATS Lee Chong-Suh
- 2) Endoscopic Assisted Mini-open Anterior Spinal Instrumented Fusion for Adolescent Idiopathic Scoliosis Lü Guo-hua
- 3) Posterior Correction and Fusion for Scoliosis using 3 Small Vertical Straight Incisions Sohei Ebara
- 4) Posterolateral Endoscopic Debridement and Irrigation for Postoperative Spinal Infections in the Thoraco-Lumbar Spine Yoshihiro Hojo
- 5) Adjacent Degeneration of L4-5 in Young Patients with Spondylyolytic Spondylolisthesis Kuo-yuan Huang
- 6) Anterior - Only Decompression and Instrumentation of Stable Thoracolumbar Burst Fractures: Introduction of concept of hemi-corpectomy Naresh Kumar

10:40-11:20	Faculty Presentation	Chairman	Dr. Po-Quang Chen (Taiwan)
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- 1) The Evolving Concept in Minimally Invasive Spine Surgery. The Taiwan Chang Gung Experience Tsung-Jen Huang
- 2) Assessment of Anterior Arthrodesis with Autologous Rib Grafting after Thoracoscopic Instrumentation and Fusion for Adolescent Idiopathic Scoliosis (AIS): A new method of evaluation with results of 55 consecutively treated patients followed up for a minimum of 2 years Hee Kit Wong
- 3) Posterior Decompression Surgery for Extraforaminal Entrapment of the Fifth Lumbar Spinal Nerve at the Lumbosacral Junction Morio Matsumoto

11:30-12:30	Luncheon Seminar 2	Chairman	Dr. Shinichi Konno (Japan)
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- 1) Current States and Clinical Outcomes of Microendoscopic Spinal Surgery for Cervical Disorders Akihito Minamide
- 2) Clinical Outcomes of Microendoscopic Posterior Lumbar Decompressive Surgery for Spinal Stenosis Patients -Minimum two years follow up of 265 cases- Yukihiro Nakagawa

Sat, 8 August. Tsuru 1(Hall1)

8:00-8:45	Special Lecture	Chairman	Dr. Munehito Yoshida (Japan)
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Larry T. Khoo

8:45-10:15	Symposium 3 MIS-Fusion	Chairmen	Dr. Shing-Sheng Wu (Taiwan) Dr. Kwai Yau Fung (HongKong)
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- 1) Minimally Invasive Spine Fixation for Multi Level Lesion Koji Sato
- 2) The Influence of Minimally Invasive Lumbar Interbody Fusion on the Back Muscles : Evaluatim by MRI and Needle Myography Takanori Saito
- 3) Minimally Invasive Transforaminal Lumbar Interbody Fusion for Multiple-level Degenerative Lumbar Disorders Cheng-Hsing Kao
- 4) Can Minimal Access Fusion Technique Reduce Approach Related Back Muscle Injuries? Prospective Magnetic Resonance Assessment for Postoperative Back Muscle Degeneration Hiroshi Taneichi
- 5) MIS-TLIF with SEXTANT Keisuke Nakano
- 6) Temporary Percutaneous Fixation without Fusion for Thoracolumbar Burst Fractures: A new minimally invasive surgical technique combining a sextant and vertebroplasty Masanari Takami

10:40-12:10	Symposium 4 VATS / Cervical	Chairmen	Dr. Ki-Tack Kim (Korea) Dr. Shoji Yagi (Japan)
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- 1) Endoscopic Anterior Correction and Fixation of Scoliosis-The 1st and 2nd version ECIF system- Sohei Ebara
- 2) Hemostasis in Video-assisted Thoracoscopic Surgery Kwai Yau Fung
- 3) Microendoscopic Posterior Cervical Foraminotomy -A novel technique to avoid neural injury and bleeding- Yukihiro Nakagawa

- 4) Microendoscopic Laminotomy for Cervical Disc Herniation with Myelopathy Takuya Mishiro
- 5) Transcorporeal Tunnel Approach for Cervical Radiculopathy Gun Choi
- 6) Microendoscopic Posterior Foraminotomy for Cervical Radiculopathy Keisuke Nakano

12:20-13:20 Luncheon Seminar 3 Chairman **Dr. Takanori Saito (Japan)**

MIS TLIF with the Viper System-indication, Surgical Technique and Clinical Results Tan Seang Beng

13:30-15:00 Symposium 5 Chairman **Dr. Yutaka Hiraizumi (Japan)**
LSS **Dr. Jae-Won You (Korea)**

- 1) Long-term Clinical Outcome of Microsurgical Bilateral Decompression via Unilateral Approach for Lumbar Canal Stenosis Hiroaki Nakamura
- 2) Microendoscopic Spinal Surgery for Extraforaminal Stenosis at the Lumbosacral Junction Hiroshi Yamada
- 3) Microendoscopic Paramedian Approach (MEPA) for Treatment of Lumbar Spinal Canal Stenosis: Approach for preserving facet joint as much as possible Kazunori Nomura
- 4) Intra-operative Lumbar Myelography in Minimally Invasive Endoscopic Spine Surgery Jwo-Luen Pao
- 5) Changes in the Microhemodynamics of Nerve Root Retraction in Patients with Lumbar Spinal Canal Stenosis in Minimally Invasive Surgery Akira Dezawa
- 6) Minimally Invasive Strategies and Options for Far-lateral Lumbar Disc Herniation Zhou Yue

15:00-15:10 Closing Remarks

Sat, 8 August. Tsuru 2(Hall2)

8:00-9:04 Session 2-2-1 Chairmen **Dr. Chong-Suh Lee (Korea)**
Complications and its preventions in MISS **Dr. Hiroaki Nakamura (Japan)**

- 1) Clinical Application of New Hemostatic Material Arista AH in Microendoscopic Spinal Surgery Masashizu Nagahara
- 2) Radiographic Evaluation of Adjacent Superior Segment Facet Joint Violation Following Transpedicular Instrumentation of the Lumbar Spine Yuichi Takano
- 3) Factors Affecting the Postoperative Changes of Hematologic Inflammatory Factors in Spinal Surgery Chang-Hoon Jeon
- 4) Comparative Analysis of the Facet Joint Change following ALIF and PLF; A Consideration for Degeneration and Trophism of Facet Joint Chang-Hoon Jeon
- 5) Hematoma after Lumbar Decompression Surgery with Tubular Retractor Yasushi Miura
- 6) Contralateral Side Transient Neuralgia following Microscopic Bilateral Decompression via a Unilateral Approach for Lumbar Canal Stenosis: Its frequency and clinical characteristics Hiromitsu Toyoda
- 7) CT-based Navigation for Pedicle Screw Placement in Complex Spine Deformities Yen-Mou Lu

- 8) Development of Guiding Templates for Pedicle Screws Insertion in Spinal SurgeryCheng-Yu Ho

9:10-10:14	Session 2-2-2 Osteoporosis	Chairmen	Dr. Luthfi Gatam (Indonesia) Dr. Weon-Wook Park (Korea)
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| 1) | Trans Pedicle Body Augmenter (TPBA) with PEEK Cages and Bone Graft and Short Segmental Fixation for Treatment of Kyphotic Deformity Vertebral Compression Fracture in T-L Junction | | Shao-Keh Hsu |
| 2) | The Role of Supine Lateral Radiography in Vertebroplasty for Osteoporotic Vertebral Compression Fractures | ..... | Meng-Huang Wu |
| 3) | Vertebroplasty for Osteoporotic Burst Fractures with Spinal Canal Compromise | ..... | Yen-Yao Li |
| 4) | Endoscopic Vertebroplasty without Instrumentation for Insufficient Bone Union with Neurological Deficit following Osteoporotic Vertebral Fracture | ..... | Akinobu Suzuki |
| 5) | Comparison of Vertebral Body Collapse and Maintenance and Post-operative Pain Relief and Family Satisfaction of Vertebroplasty Using Different Bone-fillers and Grafts | ..... | Chih-Hsien Chen |
| 6) | Surgical Treatment of the Kummell’s Disease | ..... | Jae-Sung Ahn |
| 7) | The Prevention and Treatment of Leakage of Cement in Balloon Kypholasty | ..... | Bin Meng |
| 8) | Experience of the “Vesselpasty” for the Symptomatic Vertebral Compression Fractures | ..... | Shoji Ikeda |

10:40-11:20	Session 2-2-3 LDH 1	Chairmen	Dr. Jae-Yoon Chung (Korea) Dr. Kuo-Yuan Huang (Taiwan)
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| 1) | The Techniques Skill and Clinical Choices of the YESS and TESSYS in Percutaneous Transforaminal Endoscopic Discectomy for the Lumbar Disc Herniations | | Zhou Yue |
| 2) | Treatment of the Special Lumbar Intervertebral Disc Herniation using Microendoscopic(METRx System) Discectomy via Posterior Interlaminar Approach | ..... | Zhou Yue |
| 3) | Percutaneous Endoscopic Surgery to Manage Lumbar Spine Disease 10 Years 1000 Cases | ..... | Shao-Keh Hsu |
| 4) | Revisional Percutaneous Full Endoscopic Disc Surgery for Recurrent Herniation of Previous Open Lumbar Discectomy | ..... | Nam Kyou Rhee |
| 5) | Comparison of the Efficacy of Epidural Steroid Injections for Symptomatic Lumbar Disc Herniations: Extreme-lateral transforaminal approach versus posterior interlaminar approach | ..... | Kyeong-Seong Yeom |

11:20-12:08	Session 2-2-4 LDH 2	Chairmen	Dr. Akira Dezawa (Japan) Dr. Bambang Darwono (Indonesia)
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| 1) | Micro Endoscopic Discectomy under Local Anesthesia -case report- | | Masaru Kobayashi |
| 2) | Comparison, Indication and Results between Percutaneous Endoscopic Lumbar Discectomy and Micro-Endoscopic Discectomy | ..... | Fujio Ito |

- 3) Full-Endoscopic Interlaminar Approach for the Surgical Treatment of Lumbar Disc Herniation Lü Guo-hua
- 4) Strategies to Tackle Lumbar Prolapse Disc in Difficult Access Site using Percutaneous Endoscopic Lumbar Discectomy (PELD) Technique Chan Ying Kei
- 5) A Report of Three Cases of Discal Cyst after Microendoscopic Discectomy Hirofumi Kosaka
- 6) Minimal Invasive Spine Surgery in a Regional Hospital in Hong Kong Cheng Hung-On

12:20-13:20	Luncheon Seminar 4	Chariman	Dr. Masatsune Yamagata (Japan)
	Less-invasive Mini-open PLIF for Degenerative Lumbar Spine Disorders		..... Hisashi Yoshimoto

13:30-14:18	Session 2-2-5	Chairmen	Dr. Koichi Sairyo (Japan)
	MIS-Fusion 1		

- 1) Unilateral Posterior Lumbar Interbody Fusion (U-PLIF) with Ipsilateral Pedicle Screw Fixation: An effective and less invasive technique in selected patients Keng-Chang Liu
- 2) Clinical Significance of the Radiolucent Zone around the Pedicle Screws in the Lumbar Degenerative Disease Ha Im Sic
- 3) Biomechanical Comparison of Unilateral and Bilateral Pedicle Screw Fixation for Transforaminal Lumbar Interbody Fusion After Decompressive Surgery -- A Finite Element Analysis Shih-Hao Chen
- 4) Minimally Invasive Transforaminal Lumbar Interbody Fusion Preserves Paraspinal Muscles Resulting in Less Postoperative Back Pain Ken Ishii
- 5) The Radiological and Clinical Results of Anterior Fusion through Mini-incision Retroperitoneal Approach Ki Hyeong Kim
- 6) A Novel Minimally Invasive Lumbar-Sacrum Fusion Technique—Preliminary Experience of AxiaLIF Rong Li-min

14:20-15:00	Session 2-2-6	Chairmen	Dr. Keng-Chang Liu (Taiwan)
	MIS-Fusion 2		Dr. Jae Sung Ahn (Korea)

- 1) What is the Benefit of Minimally Invasive Compared to Open Technique of Transforaminal Lumbar Interbody Fusion? Si Young Park
- 2) Pars Repair Technique & Rationale of Treatment in Adults Naresh Kumar
- 3) Direct Repair of Pars Defects using Percutaneous Pedicle Screw Hook Rod System Toshinori Sakai
- 4) Opening-closing Osteotomy by Single Posterior Osteotomy for Posttraumatic Thoracolumbar Fracture with Complications of Kyphosis and Neurological Deficit Yi-Hung Huang
- 5) Percutaneous Pedicle Screw Fixation in Thoracolumbar Fracture using Sextant-R System Li Chang-Qing

Poster Exhibition & Discussion. Lobby & Foyer
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- 1) Results of Kyphoplasty according to the Operative Timing Chang Bum Lee

- 2) Correlation between the Radiological and the Histopathologic Findings in the Vertebral OsteonecrosisCheng-Li Lin
- 3) A New Technique for the Treatment of Osteoporotic Compression Fracture - 3 Cases -Sang-Bum Kim
- 4) The Relative Analysis of Cement Leakage and The Degree of Osteoporosis in Balloon KyphoplastyBin Meng
- 5) Biomechanical Analysis of a Novel Perfusional Pedicle Screw Augmentation with Bone Cement in Osteoporotic VertebraYang Hui-lin
- 6) Biomechanical Evaluation of the Bioactive Bone Cement used for Percutaneous Vertebroplasty and Kyphoplasty in GoatsXue-song Zhu
- 7) Therapeutic Outcome of Percutaneous Disk Coagulation Therapy (PDCT) in Lumbar Disc PatientBack-Gang Sung
- 8) Comparison of Recurrence and Revision Method after Microinvasive and Open Discectomy for the Treatment of Lumbar Disc Herniations: Follow-up study of 1862 casesZhou Yue
- 9) Comparison of Early and Late Surgical Intervention for Lumbar Disc HerniationRyuichiro Akagi
- 10) Graphic Assessment at Early Postoperative Stage and Clinical Outcome of X-STOP Interspinous Process Decompression SystemShu Nakamura
- 11) Microsurgical Excision of Symptomatic Tarlov Cyst -A Case Report-Moon Chan Kim
- 12) Preliminary Study on Lumbar Spinal Canal Stenosis Treated by Microendoscopic Unilateral Approach and Bilateral DecompressionLiu Gen Zhe
- 13) The Effectiveness of the MED System (MTER®R) Assisted Decompression Surgery of Lumbar Spinal Canal: To extend the indication of endoscopic bilateral decompression through hemilateral approachMikihito Ito
- 14) Minimally Invasive Microdecompression for Extraforaminal Disc Herniation at the Lumbosacral JunctionMoon Chan Kim
- 15) A Case Report of Bertolotti's Syndrome. The Hidden Reason for SciaticaMotohide Shibayama
- 16) Clinical Outcome of Microdecompression using Tubular Retractor for Lumbar Foraminal StenosisKwan Ho Park
- 17) Posterior Decompression using Microendoscopic Technique for Thoracic Myelopathy Caused by Ossification of the Ligamentum Flavum: A Case ReportKo Ikuta
- 18) Minimally Invasive Surgery for Spinal Dural Arteriovenous Fistula -a report of two cases-Koichi Sugimoto
- 19) Direct Drug Delivery for Metastatic Spine Cancer in Endoscopic Assisted SurgeryTetsuya Abe
- 20) Percutaneous Curettage and Continuous Irrigation for Spinal Caries with Neurologic DeficitsKatsuyasu Suwa
- 21) Clinical Research in Treatment of Lumbar Degenerative Disease by Lumbar Interbody Fusion with Unilateral Pedicle Screw Fixation and Single CageYang Qun

- 22) Posterior Percutaneous Full Endoscopic Cervical Disc Surgery (PPECD):Kyung-Hyun Shin
Preliminary report
- 23) Role of Brachial Plexus Ultrasound Imaging in Solving Diagnostic Dilemma's inNaresh Kumar
Cervical Disc Disease
- 24) Magnetic Resonance Imaging Scan to Evaluate Migration of Rat BoneJun Zhou
Mesenchymal Stem Cells to Injured Sites Through Subarachnoid Space
Injection in the Rats with Spinal Cord Injury
- 25) Surgical Treatment of Sacral Primartumors after Transcatheter ArterialWang Gen-lin
Embolization with Gelfoam