



Scientific Program (Day-1)

The 1st Triennial World Congress of Minimally Invasive Spine Surgery & Techniques
 June 3 - 7, 2008.
 Hilton Hawaiian Village, Honolulu, Hawaii, USA

Thursday June 5

8:00 ~ 8:30 am

Opening Ceremony

Congress Room-I & II (TapaBallroom # 1 & 2)

Speaker-1

Sang-Ho Lee: The Third Millenium Minimally Invasive Spine Surgery: The Reality and The Future

Timeline

8:00-8:30

8:30 ~ 10:40 am

Plenary Session

Congress Room-I & II (TapaBallroom # 1 & 2)

Moderator: **Anthony T. Yeung, Parviz Kambin**

Speaker-1

Hansen A. Yuan: MISS in North America

Speaker-2

Jorge F. Ramirez: MISS in South America

Speaker-3

Pil Sun Choi: MISS in Brasil

Speaker-4

Robert Schoenmayr : MISS in Europe

Speaker-5

Satishchandra Gore: MISS in Asia

Speaker-6

Dewei Zou: The Current Status of MISS in China

Speaker-7

Wolfgang Rauschnig: Back to Basics of Pathoanatomy

Timeline

8:30-8:50

8:50-9:05

9:05-9:10

9:10-9:30

9:30-9:50

9:50-10:10

10:10-10:30

10:40 ~ 11:00 am

Coffee Break

11:00 ~ 12:00 pm

Concurrent Session-I

Congress Room-I (TapaBallroom # 1)

Moderator: **John C. Chiu, Sebastian Ruetten**

Free Paper-I

(Minimally Access Spine Surgery)

Austin Kwon: Comparison of the recurrence rate between conventional microdiscectomy and laser-assisted microdiscectomy: A preliminary reports

Timeline

11:00-11:07

Ibet Marie Sih: Decompressive surgery via the unilateral paramedian muscle splitting technique (using the METRx-MD system): A recommended treatment for lumbar spinal stenosis

11:07-11:13

Woo-Kyung Kim: Anterior cervical microforaminotomy for unilateral radiculopathy: 5 years follow up-transuncal approach vs. upper vertebral transcorporeal approach

11:14-11:20

Yoichi Jin: A new posterior decompression method (Y-method) for lumbar spinal canal stenosis with the technique of figure eight reattachment of split spinous process

11:21-11:27

Genzhe Liu: Clinical outcome of microendoscopic unilateral approach and bilateral decompression for lumbar spinal canal stenosis

11:28-11:34

Rene Krishnan: Minimally invasive EMG controlled posterior fusion with the silverbolt system: Clinical experiences

11:35-11:41

Yue Zhou: Anterior cervical discectomy and interbody fusion by endoscope (METRx)

11:42-11:48

Congress Room-II (TapaBallroom # 2)

Moderator: **Robert Schoenmayr, Ho-Gyun Ha**

Free Paper-II

(Intradiscal Therapy)

Chan Shik Shim: 24 month results of a prospective international multi-center study of the PDN-SOLO device

Timeline

11:00-11:07

Anibal Silva: Intradiscal electrothermal treatment for discogenic neck pain: A prospective outcome study with a minimum 6 months follow up

11:07-11:13

Mitchell Hardenbrook: Hydrodiscectomy: A novel approach to lumbar microdiscectomy

11:14-11:20

Sang-Heon Lee: Developing the percutaneous disc decompression device (L'DISQ) using radiofrequency energy: Stability and effectiveness

11:21-11:27

Shoji Ikeda: Efficacy of PLDD restricted to protruded herniation mass

11:28-11:34

Guillermo Saul Fernandez Molina: Percutaneous laser and ozone disc decompression

11:35-11:41

Roberto Assietti: Twenty four months outcome of 50 patients treated with intradiscal electrothermal therapy for chronic low back pain

11:42-11:48

Congress Room-III (Honolulu Suit Room # 1)

Moderator: **Hae-Dong Jho, Richard Derby**

Paper-III

(vertebroplasty)

Antonio Kruger: Stand-alone kyphoplasty in the treatment of burst fractures

Timeline

11:00-11:07

Daniel H. Kim: Percutaneous spondylolisthesis reduction with the Silverbolt™ MIS pedicle screw system

11:07-11:13

Nils Diethelm Haberland: Spongionoplasty a new percutaneous method: Technique, indications and results

11:14-11:20

Norman Zainal: Five years experience in Micro-LOVE surgery

11:21-11:27

Shangli Liu: Using high viscosity cement in vertebroplasty (115 cases reported)

11:28-11:34

Free Paper-III (Vertebral)	Takumi Yonezawa: Outcome of minimally access spinal fusion for degenerative lumbar spine	11:35 ~ 11:41
	Shao-Keh Hsu: Trans pedicle body augmenter (TPBA) with PEEK cage and bone graft for treatment of kyphotic deformity vertebral compression fracture (VCF)	11:42 ~ 11:48

Congress Room-IV (Honolulu Suit Room # 2)

Moderator: Daniel L. Farkas (Daniel L. Farkas)

Free Paper-IV (Interventional Pain Management)	Anthony T. Yeung: Endoscopic rhizotomy of the dorsal ramus targeting the lateral and medial branch for chronic discogenic/axial back pain	11:00 ~ 11:07
	Christopher Zarebinski: Sphenopalatine ganglion block compared with stellate ganglion block in patients with traumatic trigeminal neuralgia	11:07 ~ 11:13
	Ioannis Polythodorakis: Endoscopic lysis of adhesions and targeted epidural injection of steroids / local anaesthetic / adhesiolytic agents during epiduroscopy in patients with degenerative disease of the lumbar	11:14 ~ 11:20
	Kam Kong Chan: Percutaneous pulsed radiofrequency of the cervical dorsal root ganglion for the treatment of cervicobrachialgia	11:21 ~ 11:27
	Robert Saftic: Epidural interlaminar or intraforaminal infiltration of steroids for the treatment of symptomatic lumbar herniated discs	11:28 ~ 11:34
	Satishchandra Gore: Distal block: Fundamental answer to where is pain coming from?	11:35 ~ 11:41
	Toshikatsu Kanazawa: Percutaneous-transpedicular intravacuum polymethylmethacrylate injection (PIPI procedure) for the treatment of chronic low back pain associated with lumbar degenerative scoliosis	11:42 ~ 11:48
		Timeline

12:00 ~ 1:30 pm

Congress Room-I (Tapa Ballroom # 1)

Moderator: Daniel Gastambide, In Suk Hamm

Surgeon: Oon Ki Baek

Luncheon Break & Luncheon Tele-Live Surgery

Percutaneous Endoscopic Cervical Discectomy

1:30 ~ 3:00 pm

Congress Room-I (TapaBallroom # 1)

Moderator: Choll W. Kim,

**General Symposium-I
Minimally Invasive Fusion (SMISS)**

Speaker-1	Larry T. Khoo: Axial LIF	1:30 ~ 1:50
Speaker-2	Choll W. Kim: Minimally Invasive Fusion	1:50 ~ 2:10
Speaker-3	Kevin T. Foley: Minimally Invasive TLIF and PLIF	2:10 ~ 2:30
Speaker-4	Neel Anand: Minimally Invasive Deformity Correction	2:30 ~ 2:50
		Timeline

1:30 ~ 3:00 pm

Congress Room-II (TapaBallroom # 2)

Moderator: Kai-uwe Lewandrowsk, Joo-Seung Kim, Ho-Gyun Ha

**General Symposium-II
Endoscopic Lumbar Discectomy**

Speaker-1	Thomas Hoogland : Direct Epidural Approach - Outside-In Transforaminal approach	1:30 ~ 1:50
Speaker-2	Anthony T. Yeung: Inside-Out Transforaminal Approach	1:50 ~ 2:10
Speaker-3	Martin T. N. Knight: Posterior Translaminar Approach	2:10 ~ 2:30
Speaker-4	Gun Choi: Technique for Migrated Disc Herniation	2:30 ~ 2:50
		Timeline

3:00 ~ 3:30 pm

Coffee Break

3:30 ~ 5:00 pm

Congress Room-I (TapaBallroom # 1)

Moderator: Sebastian Ruetten, Moon Chan Kim

Free Paper-V (Lumbar-Endoscopic Spine Surgery)	Fujio Ito: Four different approaches of endoscopic lumbar discectomy for herniations at L5/S1 level	3:30 ~ 3:36
	Changil Ju: Percutaneous endoscopic discectomy in lumbar disc herniation combined with spinal stenosis having severe unilateral radiculopathic leg pain caused by dominant root compression:	3:37 ~ 3:43
	Eric Gozlan: Endoscopic decompression in lumbar degenerative foraminal stenosis (Foraminoplasty)	3:44 ~ 3:50
	Shao-Keh Hsu: Percutaneous transforaminal endoscopic decompression for lumbar foraminal stenosis: Preliminary study	3:51 ~ 3:57
	Hyeun Sung Kim: Endoscopic transforaminal suprapedicular approach in high grade inferior migrated lumbar disc	3:58 ~ 4:04
	Jai Joon Shim: Contralateral tangential approach for lumbar extraforaminal disc herniation with intracanalicular lesions	4:05 ~ 4:11
	Sebastian Ruetten: Full-endoscopic operation of lumbar disc herniation versus the microsurgical technique-30 months results of a prospective randomized comparative study	4:12 ~ 4:18
	Riya Kosaka: Incidence of bone necrosis after percutaneous laser disc decompression: An un-negligible complication of intradiscal therapy with LASER	4:19 ~ 4:25
	Rudolf Morgenstern: Expandable single implant for foraminal or lateral stenosis in extreme collapsed lumbar discs: Transforaminal endoscopic stenosis surgery (TESS)	4:26 ~ 4:32
	Stefan Hellinger: Quality assurance for minimal invasive and endoscopic procedures in spine surgery-Experiences and recommendations of a German working group	4:33 ~ 4:39
	Timeline	

Congress Room-II (TapaBallroom # 2)

Moderator: Christopher C. Meredith, Sang-Keun Park

Timeline

Free Paper-VI (MISS Fusion)	Orlando Righesso: Comparison of open discectomy with microendoscopic discectomy: Results of a randomized controlled trial	3:30 ~ 3:36
	Aliro San Martin: Standing alone cervical cages in anterior cervical spine fusion: Good clinical results with bad radiological results	3:37 ~ 3:43
	Choll W. Kim: Minimizing the MIS learning curve: Analysis of a 1-day training program comprised of a standardized technique protocol, synthetic models, and a low trainee to cadaver ratio	3:44 ~ 3:50
	Soo-Han Kim: The efficiency of PEEK cage and Grafton for anterior cervical fusion	3:51 ~ 3:57
	Junichi Mizuno: Cervical laminoplasty using metallic miniplates (or basket) for multilevel cervical spondylosis and ossification of the posterior longitudinal ligament via unilateral approach	3:58 ~ 4:04
	Kevin Yoo: Stand-alone single level lateral trans-psoas lumbar interbody fusion	4:05 ~ 4:11
	Anthony Alberico: Lumbar inter facet fusion: A retrospective analysis of a novel technique	4:12 ~ 4:18
	Mark Grubb: Twelve month outcomes of patients treated with MIS fusions via a TLIF approach: Comparison of two different interbody devices	4:19 ~ 4:25
	Mark Grubb: Procedure for a percutaneous interbody stabilization procedure for the treatment of lumbar DDD	4:26 ~ 4:32
Carlos Fernando Arias Pesantez: Two levels presacral axial lumbar interbody fusion (AxiaLIF): A prospective 12 months follow up: Clinical and radiological results	4:33 ~ 4:39	

Congress Room-III (Honolulu Suit Room # 1)

Moderator: Sang-Won Lee, Satishchandra Gore

Free Paper-VII (Arthroplasty, Dynamic Stabilization)	Larry T. Khoo: 6 month results of percutaneous bilateral facet augmentation system (Percudyn) for the treatment of degenerative disc disease: Clinical case series	3:30 ~ 3:36
	Christopher A. Yeung: Nucleus replacement using an in situ cured, balloon contained, injectable polyurethane device: Two year interim European clinical results from two prospective multi-center studies	3:37 ~ 3:43
	Ibet Marie Sih: Motion preservation surgery with artificial disc (Prestige LP): An alternative to fusion surgery in the treatment of cervical degenerative disc disease	3:44 ~ 3:50
	Jin Hoon Park: Comparative analysis between cervical arthroplasty and anterior cervical discectomy and fusion using cage	3:51 ~ 3:57
	Won Gyu Choi: Undermining flavectomy followed by interspinous locker fixation for elderly patients with lumbar spinal stenosis associated with spondylolisthesis or instability	3:58 ~ 4:04
	Reuven Gepstein: A new percutaneous dynamic device with pedicle screws and dynamic rod: Experience with our first 10 cases of DynaBolt	4:05 ~ 4:11
	Reuven Gepstein: A new percutaneous local anesthetic device for lumbar spinal stenosis-Results of our first 60 cases using superion	4:12 ~ 4:18
	Shu Nakamura: Radiographic analysis and clinical outcome of interspinous process decompression with X-stop device for lumbar spinal stenosis	4:19 ~ 4:25
	Anthony Fabrizi: A series of 150 patients with lumbar spinal stenosis treated with percutaneous interspinous implant (Aperius™)	4:26 ~ 4:32
Roberto Assietti: Twelve-months results of a multicenter, prospective follow-up study of 21 patients treated with the Aperius™ PercLID™ system	4:33 ~ 4:39	

Congress Room-IV (Honolulu Suit Room # 2)

Moderator: J. Patrick Johnson, Kwon Ick Ha

Free Paper-VIII (Basic Biomechanics, Image Guidance)	Akira Dezawa: Changes in the microhemodynamics of nerve root retraction in patients with lumbar spinal canal stenosis in minimally invasive surgery	3:30 ~ 3:36
	Thomas Hoogland: Percutaneous endoscopic transforaminal disc abrasion-A new minimally invasive surgical method for the regeneration of painful degenerative lumbar discs	3:37 ~ 3:43
	Edilson Silva Machado: Aggrecan gene polymorphism and intervertebral disc degeneration	3:44 ~ 3:50
	Gilad Regev: Architectural studies of the lumbar paraspinal muscles: Insights into muscle design and function	3:51 ~ 3:57
	Wesley Johnson: Novel minimally invasive facet fusion: An in vitro biomechanical study	3:58 ~ 4:04
	Daniel L. Farkas: Advanced imaging for minimally invasive spine surgery	4:05 ~ 4:11
	Pil Sun Choi: Anatomy of triangular safe zone applied to lumbar percutaneous procedures	4:12 ~ 4:18
	Volodymyr Alex Radchenko: New minimal invasive method in vertebral disc regeneration: Experimental and clinical research	4:19 ~ 4:25
		4:26 ~ 4:32
		4:33 ~ 4:39

5:00 ~ 6:00 pm

Oral Poster Session-I

Congress Room-I (TapaBallroom # 1)

Moderator: Shao-Keh Hsu, Avinash Haridas

R-I (Spine Surgery)	Ho-Gyun Ha: Endoscopy application to Non-discogenic spinal diseases: Part 1. Spine and spinal cord tumor	5:00 ~ 5:03
	Ho-Gyun Ha: Endoscopy application to non-discogenic spinal diseases: Part 2. Non-tumorous mass lesion and malformation	5:04 ~ 5:07
	Albert A. Sufianov: Management of lumbar disc herniation by the percutaneous endoscopic technique	5:08 ~ 5:11
	Mitsuto Taguchi: Anesthesia for nonintubated patients under PELD	5:12 ~ 5:15
	Thomas Hoogland: Endoscopic transforaminal discoplasty in disc-degeneration and resistant low back pain	5:16 ~ 5:19
	Kaiwu Lu: Treatment of lateral lumbar disc herniation by percutaneous endoscopic lumbar discectomy	5:20 ~ 5:23

Oral Poster-I (Lumbar-Endoscopic Spine)	Yi-Sheng Tsang: Single approach of percutaneous endoscopic discectomy for complicated foraminal and intracanalicular lumbar disc herniation	5:24 - 5:27
	Shuxun Hou: Percutaneous foraminoplasty and transforaminal endoscopic discectomy for lumbar disk herniation	5:28 - 5:31
	Sang-Joon Park: Outcome and prognostic radiologic factors of transforaminal approach of percutaneous endoscopic lumbar discectomy for intracanal extruded lumbar disc herniation: Analysis of a prospective clinical series with 2-year follow-up	5:32 - 5:35
	Kai-uwe Lewandrowski: Technique & indications of endoscopic lumbar foraminal decompression: A retrospective case series analysis and review of the literature	5:36 - 5:39
	Kai-uwe Lewandrowski: Transforaminal endoscopic decompression: Clinical results of two clinical cohort studies	5:40 - 5:43
	Zhenzhou Li: Posterolateral transforaminal endoscopic discectomy and thermal radiofrequency annuloplasty for discogenic low back pain	5:44 - 5:47
Congress Room-II (TapaBallroom # 2)		
Moderator: Pii Sun Choi, Jae-Chill Chang		Timeline
Oral Poster-II (Arthroplasty, Intradiscal Therapy)	Cagatay Ozturk: Multilevel cervical total disc replacement for symptomatic degenerative disc disease	5:00 - 5:03
	Cagatay Ozturk: Cervical disc replacement of C7-T1 level for degenerative disc disease	5:04 - 5:07
	Anthony T. Yeung: Neudisc™ anisotropic synthetic hydrogel for nucleus replacement	5:08 - 5:11
	Bo Yang: Revision of lumbar prosthesis disc nucleus replacement in 19 cases	5:12 - 5:15
	Kevin Yoo: Cervical disc arthroplasty in conjunction with cervical fusion	5:16 - 5:19
	Yong Hai: Lumbar total disc replacement with SB Charite III prosthesis: Chinese experiences with more than two years follow up	5:20 - 5:23
	Ioannis Polythodorakis: Percutaneous decompression of contained disc herniation for the treatment of axial and leg pain	5:24 - 5:27
	Tabata de Alcantara: Early results of the treatment of low back pain with intradiscal electrothermal therapy	5:28 - 5:31
	Mohammed M. Salih AlMahmood: Percutaneous disc nucleoplasty-Alain experience since 2004	5:32 - 5:35
	Ramiro Ramirez: Treatment of vertebral degenerative disease with the use of epidural ozonotherapy	5:36 - 5:39
Vijay Sheel Kumar: Ozonucleolysis coupled with percutaneous Stryker Dekompressor nucleotomy for large disc herniations: Initial experience with 30 patients	5:40 - 5:43	
		5:44 - 5:47
Congress Room-III (Honolulu Suit Room # 1)		
Moderator: Craig Flinders, Wen-Jer Chen		Timeline
Oral Poster-III (Complication or Miscellaneous, Trauma)	Ioannis Polythodorakis: Vertebral abcess treatment with a combination of percutaneous aspiration, balloon kyphoplasty, vertebral body reconstruction and fusion	5:00 - 5:03
	Graham Hall: Fusion and heterotopic ossification of a prototype hydroxyapatite and tricalcium phosphate putty carrier for rhBMP-2 in 16 patients	5:04 - 5:07
	Mitchell Hardenbrook: Efficacy of disc space preparation for transforaminal lumbar interbody fusion: A comparative study of a novel hydrosurgical technique to conventional methods in a cadaver model	5:08 - 5:11
	Larry T. Khoo: Long term outcomes of minimally-invasive presacral approach and instrumentation technique for anterior lumbosacral intervertebral discectomy and fusion	5:12 - 5:15
	Prem Pillay: Robotic spinal microsurgery	5:16 - 5:19
	Wei Chiang Liu: Epidural fluid collection after percutaneous endoscopic discectomy	5:20 - 5:23
	Hua-Zi Xu: 270° decompression and reconstruction via a posterior small incision: Technique note and results in 14 patients with severe three-column injuries of thoracolumbar spine	5:24 - 5:27
	Masahiro Kawanishi: Treatment of thoracolumbar fractures with vertebroplasty in combination with percutaneous pedicle screw	5:28 - 5:31
	Takehide Chujo: Thoracoscopic transdiaphragmatic approach to burst fractures of the thoracolumbar junction	5:32 - 5:35
	Cagatay Ozturk: Percutaneous reduction and stabilization of thoracolumbar fractures without neurological deficit: A new technique	5:36 - 5:39
	Tony Tannoury: Closed reduction and percutaneous pedicle screw fixation (CRPF) of thoracolumbar fractures with and without fusion: Safety and outcome	5:40 - 5:43
	Stanton Schiffer: Our experience treating low back pain with MISS	5:44 - 5:47
Congress Room-IV (Honolulu Suit Room # 2)		
Moderator: Stefan Hellinger, Hyung-Dong Kim		Timeline
I Poster-IV (Complication, Miscellaneous)	Sanghyun Keem: Sophisticated use of carbon dioxide laser in spinal surgery	5:00 - 5:03
	Antonio Kruger: Complications in vertebro- and kyphoplasty	5:04 - 5:07
	Christopher C. Meredith: Complications of minimally invasive spine surgery	5:08 - 5:11
	Naresh P. Patel: Minimally invasive spinal surgery for intradural pathology	5:12 - 5:15
	Naresh P. Patel: Self-closing nitinol clips for minimally invasive spinal dural closure	5:16 - 5:19
	Merrill Wayne Reuter: Anterior cervical discectomy with and without platelet gel	5:20 - 5:23
	Xifeng Zhang: Treatment of lumbar spinal tuberculosis with minimally invasive surgery	5:24 - 5:27
	Albert A. Sufianov: Laminoplasty at surgery of the spine tumour	5:28 - 5:31

Ebrahim Ghayem Hassankhani:	Outcome of early and late surgery of thoraco-lumbar unstable burst fractures	5:32~5:35
Shah Alam:	Surgical intervention in spinal disorders: Personal experience	5:36~5:39
Wirawan Manusubroto:	Tacit knowledge approach after facing spine trauma disaster	5:40~5:43
Ioannis Polythodorakis:	Intraoperative Formation of epidural fluid collection during a balloon kyphoplasty procedure: Complication in case of co-existing discitis?	5:44~5:47

6:00 ~ 7:00 pm

Industrial Workshop



Scientific Program (Day-2)

The 1st Triennial World Congress of Minimally Invasive Spine Surgery & Techniques
 June 3 - 7, 2008.
 Hilton Hawaiian Village, Honolulu, Hawaii, USA

Friday June 6

7:00 ~ 8:00 am

Congress Room-I (TapaBallroom # 1)

Breakfast Seminar-I Intradiscal Therapy

Moderator: Eric Gozlan, Moon Chan Kim

- Speaker-1 Eric Gozlan: Chemonucleolysis
- Speaker-2 Vijay S. Kumar: Ozone Therapy
- Speaker-3 Anthony T. Yeung: Transforaminal Far Lateral Approach & Endoscopic Visualized Thermal Annuloplasty

Timeline
 7:00-7:15
 7:16-7:31
 7:32-7:47

7:00 ~ 8:00 am

Congress Room-II (TapaBallroom # 2)

Breakfast Seminar-II Diagnostic and Therapeutic Spinal Injection

Moderator: Kyung-Hoon Kim, Chang Weon Cho

- Speaker-1 Christopher J. Zarebinski: Cervical Selective Nerve Root Blocks
- Speaker-2 Steven E. Levine: Spinal Joint Injection & Injection of Medial Branch of Posterior Ramus for Referred Spinal Pain
- Speaker-3 Salahadin Abdi: Sympathetic Neural Blockade and Ablation for Sympathetic Maintained Pain

Timeline
 7:00-7:15
 7:16-7:31
 7:32-7:47

8:00 ~ 9:00 am

Congress Room-I (TapaBallroom # 1)

General Symposium-III Arthroplasty

Moderator: Hansen A. Yuan, Soo Han Kim

- Speaker-1 Rudolf Bertagnoli: Cervical Arthroplasty
- Speaker-2 Stephen H. Hochschuler: Lumbar Arthroplasty
- Speaker-3 Hansen A. Yuan: Lateral Approach for Arthroplasty
- Speaker-4 J. Patrick Johnson: Salvage Strategies for Failed Arthroplasty

Timeline
 8:00-8:13
 8:14-8:27
 8:28-8:41
 8:42-8:55

8:00 ~ 9:00 am

Congress Room-II (TapaBallroom # 2)

General Symposium-IV Minimally Invasive Treatment for FBSS

Moderator: Kevin T. Foley, Jae Hyoo Kim

- Speaker-1 Martin T. N. Knight: Foraminoplasty for FBSS
- Speaker-2 Sang-Chul Lee: Epidural adhesiolysis for FBSS
- Speaker-3 Gabor B. Racz: Racz Catheter for FBSS
- Speaker-4 Eric Gozlan: Endoscopic Foraminoplasty and Removal of Recurrent HNP

Timeline
 8:00-8:13
 8:14-8:27
 8:28-8:41
 8:42-8:55

9:00 ~ 9:30 am

Coffee Break

9:30 ~ 11:00 am

Congress Room-I (TapaBallroom # 1)

Concurrent Session-III

Moderator: Akira Dezawa, Rudolf Morgenstern

Free Paper-IX
 (Endoscopic Spine Surgery, New Technique)

- Thomas Hoogland: Cervical percutaneous nucleotomy combined with chymopapaine 9:30-9:36
- Sebastian Ruetten: Prospective comparison of full-endoscopic dorsal operation to ventral decompression and fusion in cervical lateral disc herniations 9:37-9:43
- Jaechil Chang: Mini-transthoracic supradiaphragmatic approach to the thoracolumbar junction 9:44-9:50
- Tarik Yazar: Are we really safe around the intervertebral foramen/cadaver study 9:51-9:57
- Sang-Joon Park: Percutaneous endoscopic approach for the treatment of discal cysts causing lumbar radiculopathy 9:58-10:04
- Mitchell Hardenbrook: Miniature robotic guidance in mis spinal surgery-Accuracy, radiation and procedure time 10:05-10:11
- Werner Lack: Early experiences with a new minimal invasive fusion technique of the lumbosacral segments (AxialIF)-radiologic results, peri-and postoperative complications 10:12-10:18
- Dewei Zou: Early results of C-Pod kyphoplasty in osteoporotic vertebral compression fractures 10:19-10:25
- William W. Lu: Vertebral augmentation with a novel bone void filling system and sr-ha bioactive bone cement An in vitro biomechanical and morphological study 10:26-10:32
- Yaron Zaulan: Robotic assisted vertebroplasty: Our experience with a novel approach to the treatment of vertebral compression fractures 10:33-10:39

Congress Room-II (TapaBallroom # 2)

Moderator: Soo-Han Kim, Daniel Gastambide

Timeline

Free Paper-X <small>(MISS Fusion, Anatomy, Image Guidance)</small>	Larry T. Khoo: Minimally invasive, extracavitary approach for thoracic discectomy and interbody fusion (MI-ECTDF): Clinical and radiographic 1-year outcomes in 13 patients compared with a cohort of traditional anterior transthoracic approaches	9:30-9:36
	Larry T. Khoo: Long-term outcomes of minimally invasive versus open transforaminal lumbar interbody fusion: Surgical results and outcomes in a series of 128 patients	9:37-9:43
	Dong-Hyun Kim: Comparison study of the instrumented combined A-P fusion with instrumented anterior lumbar interbody fusion augmented as a surgical procedure for adult low-grade isthmic	9:44-9:50
	Bosun Kwon: New material for spinal fusion: The preliminary study of hydroxyapatite bone graft coated with silane modified gelatin	9:51-9:57
	Choll W. Kim: Navigation-assisted fluoroscopy in minimally invasive direct lateral interbody fusion: A cadaveric study	9:58-10:04
	Philip S. Yuan: Safety and efficacy of the presacral approach for lumbosacral fusion	10:05-10:11
	Yong-Long Chi: Microendoscopic anterior surgery for irreducible atlantoaxial dislocation: Technique note and initial experience	10:12-10:18
	Yong-Long Chi: Management of odontoid fractures with percutaneous anterior odontoid screw fixation	10:19-10:25
	Satishchandra Gore: Mechanism based stages and subsets of sciatica	10:26-10:32
Devanand Dominique: Clinical case series-Mis spine surgery with miniature robotic guidance		10:33-10:39

Congress Room-III (Honolulu Suit Room # 1)		
Moderator: Reuven Gepstein, Kin-Man Yip		Timeline
Free Paper-XI <small>(Arthroplasty, Dynamic Stabilization, Miscellaneous)</small>	Alejandro Reyes-Sanchez: Surgical technique and early clinical outcomes of an optimized nucleus arthroplasty system	9:30-9:36
	Anna Gelsomino: Clinical and radiological outcome after double-level cervical arthroplasty: Three-years follow-up	9:37-9:43
	Carlos Fernando Arias Pesantez: Charite retrieval experience in varying lumbar levels: Successes and disasters	9:44-9:50
	Carlos Fernando Arias Pesantez: Minimally invasive lateral lumbar TDR: 18 months follow up	9:51-9:57
	Carlos Fernando Arias Pesantez: A novel lateral percutaneous interspinous system for the treatment of lumbar stenosis: Early clinical and radiological results up to one year follow up	9:58-10:04
	Anthony T. Yeung: The causes of dysesthesia in foraminal endoscopic surgery: An anatomic and approach related risk of the paramedian and foraminal approach to the lumbar spine	10:05-10:11
	Motohide Shibayama: Patch technique for repair of dural tear in microendoscopic spine surgery	10:12-10:18
	Komang Agung Irianto: The role of thoracoscopy in spondylitis tuberculosis	10:19-10:25
	Shih-Chieh Yang: Identify germs of spondylodiscitis: Percutaneous endoscopy or CT-guided biopsy	10:26-10:32
Alastair Hudd: Quality of data entry by patients completing the SF-36 questionnaire	10:33-10:39	

Congress Room-IV (Honolulu Suit Room # 2)		
Moderator: Wolfgang Rauschnig, Chong-Tien Tan		Timeline
Free Paper-XII <small>(Tumor, Trauma, Deformity)</small>	Ihl Bohng Choi: CyberKnife radiosurgery for metastatic spine tumors: Clinical experience in 50 cases	9:30-9:36
	Jan Kocis: Minimally invasive transthoracoscopic transdiaphragmatic approach to the thoracolumbar junction	9:37-9:43
	Ali Baaj: Minimally-invasive anterior column support in the treatment of thoraco-lumbar fractures	9:44-9:50
	Kornelis Andries Poelstra: The feasibility of damage control spine surgery: Minimally invasive spinal stabilization (MISS) in the acute setting for complex thoracolumbar fractures	9:51-9:57
	Li Kainan: Mid-term efficacy study of the technique of minimally invasive endoscopic pedicle screw fixation for the treatment of thoracolumbar burst fracture	9:58-10:04
	Nicola Marotta: Algorithm for use of minimally invasive or percutaneous short fixation of fractures involving the thoracolumbar junction and lumbar spine	10:05-10:11
	Tony Tannoury: Why fusion is not a mandatory part of the operative treatment of unstable spinal burst fractures?	10:12-10:18
	Carlos Fernando Arias Pesantez: Degenerative scoliosis: Long constructions through minimally invasive lateral approach using a Lateral Plate	10:19-10:25
	Jee-Soo Jang: Pelvic compensatory mechanism in lumbar degenerative kyphosis (LDK): Evaluation and significance of pelvic compensatory mechanism	10:26-10:32
Sohei Ebara: Posterior correction and fusion for scoliosis using 3 small vertical straight incisions: A preliminary report	10:33-10:39	

11:00 ~ 12:00 pm Special Interest Group Discussion			
Congress Room-I (TapaBallroom # 1)		Timeline	
Case 1 & 2	Case Presenter <u>Larry T. Khoo</u>	Case-1: Single Level Lumbar Spinal Stenosis with Grade I Listhes	11:00-11:30
	Panel #1 Richard G. Fessler Panel #2 Neel Anand	Minimally Invasive Posterior Fusion Dynamic Stabilization	
	Case Presenter <u>Neel Anand</u>	Case-2: Symptomatic Adjacent Disease	11:31-12:00
	Panel #1 Larry T. Khoo Panel #2 Kevin Yoo	Minimally Invasive Fusion Hybrid Stabilization	
Congress Room-II (TapaBallroom # 2)			
Case 3 & 4	Case Presenter <u>Richard Derby</u>	Case-3: Efficiency of Provocative Discography	11:00-11:30
	Panel #1 Choll W. Kim Panel #2 Anthony T. Yeung	Cons Pros	

Panel #1 Junichi Mizuno
Panel #2 Gun Choi

Open Decompression (Microdiscectomy or MED)
Percutaneous Endoscopic Decompression

Congress Room-III (Honolulu Suit Room # 1)

Case Presenter ***Sang-Keun Park***

Case-5: Treatment Lumbar Stenosis Without Instability
Spinous Process Based Posterior Dynamic Stabilization

11:00 ~ 11:30

Panel #1 Dong Yeob Lee
Panel #2 Akira Dezawa
Panel #3 Munehito Yoshida

Case Presenter ***Chang Rak Choi***

Micro-Decompression

Case-6: Cervical Spondylotic Radiculopathy

11:31 ~ 12:00

Panel #1 Hae-Dong Jho
Panel #2
Panel #3 Rudolf Bertagnoli

Microforaminotomy

Anterior Cervical Discectomy and Fusion (ACDF)

Anterior Disc Replacement (ADR)

Congress Room-IV (Honolulu Suit Room # 2)

Case Presenter ***Ricardo L. Monge***

Case-7: Intradiscal

11:00 ~ 11:30

Panel #1 Kevin T. Foley
Panel #2 Jose Rugeles
Panel #3 Wonsok Chang

Coblation Microdiscectomy

Laser Therapy

Percutaneous Endoscopic Laser Annuloplasty

Case Presenter ***Salahadin Abdi***

Case-8: Interventional Pain Management for Spinal Pain

11:31 ~ 12:00

Panel #1 Lawrence B. Rothstein
Panel #2 Kyung-Hoon Kim
Panel #3 Craig Flinders

Neural Blockade vs. Neural Ablation

Vertebroplasty vs. Kyphoplasty

SCS vs. Intrathecal Infusion Pump

12:00 ~ 1:00 pm

Congress Room-I (Tapa Ballroom # 1)

Moderator: ***Sebastian Ruetten, Suck Jun O***

Surgeon: ***Ho Yeon Lee***

Luncheon Break & Luncheon Tele-Live Surgery

Percutaneous Endoscopic Lumbar Discectomy

Social/ Sport Activity

1:00 ~ 6:00 pm

Industrial Work shop (1:00 ~ 4:00 pm)

6:00 ~ 9:00 pm

Gala Dinner & Dance Party



Scientific Program (Day-3)

The 1st Triennial World Congress of Minimally Invasive Spine Surgery & Techniques
 June 3 -7, 2008.
 Hilton Hawaiian Village, Honolulu, Hawaii, USA

Saturday June 7

7:00 ~ 8:00 am

Congress Room-I (TapaBallroom # 1)

Breakfast Seminar-III Minimally Invasive Surgery for Cervical

Moderator: Merrill W. Reuter, Jung-Kyo Lee

- Speaker-1 Hae-Dong Jho: Minimally Invasive Anterior Cervical Foraminotomy
- Speaker-2 Richard G. Fessler: Micro Endoscopic Discectomy (MED)
- Speaker-3 Yong Ahn: Percutaneous Endoscopic Cervical Discectomy

Timeline
 7:00 ~ 7:15
 7:16 ~ 7:31
 7:32 ~ 7:47

7:00 ~ 8:00 am

Congress Room-II (TapaBallroom # 2)

Breakfast Seminar-IV Disc Regeneration

Moderator: Ashish D. Diwan, Tae Sung Kim

- Speaker-1 Ashish D. Diwan: Current Trend on Disc Regeneration Research
- Speaker-2 Rudolf Bertagnoli: Disc Regeneration Technique: European Study
- Speaker-3 Jihoon Jeong: Regenerative Medicine in Spine: The Role of Physical Medicine

Timeline
 7:00 ~ 7:15
 7:16 ~ 7:31
 7:32 ~ 7:47

8:00 ~ 9:00 am

Congress Room-I (TapaBallroom # 1)

General Symposium-V Nucleus Arthroplasty

Moderator: Stephen H. Hochshuler, Sang Won Lee

- Speaker-1 Hansen A. Yuan: Nucleus Replacement Overview
- Speaker-2 Christopher A. Yeung: DASCOR (DASCOR Disc Arthroplasty System)
- Speaker-3 Chan Shik Shim: PDN SOLO and HydraFlex
- Speaker-4 Stephen H. Hochshuler: Annular Repair
- Speaker-5 James J. Yue: Neudisc Nucleus Replacement

Timeline
 8:00 ~ 8:13
 8:14 ~ 8:27
 8:28 ~ 8:41
 8:42 ~ 8:55

8:00 ~ 9:00 am

Congress Room-II (TapaBallroom # 2)

General Symposium-VI Dynamic Stabilization

Moderator: J. Patrick Johnson, Dong Youl Rhee

- Speaker-1 Wolfgang Rauschnig: Anatomic Basis for Posterior Dynamic Stabilization
- Speaker-2 Neel Anand: Pedicle Based Dynamic Stabilization
- Speaker-3 Gary Lowrey: Interspinous Spacer
- Speaker-4 Manuel Enes: Ligamentoplasty

Timeline
 8:00 ~ 8:13
 8:14 ~ 8:27
 8:28 ~ 8:41
 8:42 ~ 8:55

9:00 ~ 9:30 am

Congress Room-I (TapaBallroom # 1)

Awarding Prizes

9:30 ~ 11:30 am

Congress Room-I (TapaBallroom # 1)

Oral Poster Session-II

Moderator: Lawrence B. Rothstein, Dong Yeob Lee

- Soo Beom Kim: Percutaneous endoscopic treatment of herniated disc at juxtafusion level: A review of two cases 9:30 ~ 9:33
- Sebastian Ruetten: Prospective 2 years results of full-endoscopic decompression of zygoapophyseal joint cysts 9:34 ~ 9:37
- Niraj Bhupendra Vasavada: Early clinical results for X-MR assisted percutaneous transforaminal endoscopic lumbar discectomy 9:38 ~ 9:41
- Niraj Bhupendra Vasavada: Percutaneous endoscopic lumbar discectomy for L4/5 down-migrated disc herniation through L5/S1 interlaminar approach: A technical report 9:42 ~ 9:45
- Rudolf Morgenstern: The learning curve in foraminal endoscopic discectomy 9:46 ~ 9:49
- June Ho Lee: The future of endoscopic lumbar disc surgery: Limits and perspectives 9:50 ~ 9:53
- Guillermo Saul Fernandez Molina: Endoscopic treatment of lumbar disc herniations 9:54 ~ 9:57
- Shee Yan Fong: Patients can be discharged within 24 hours after lumbar discectomy 9:58 ~ 10:01
- Sreedharan P. E. Namboothiri: Postoperative hematoma following percutaneous endoscopic lumbar discectomy 10:02 ~ 10:05
- Tetsuya Abe: Early experiences of transforaminal percutaneous endoscopic lumbar discectomy 10:06 ~ 10:09
- Lawrence Rothstein: Epiduroscopic lumbar decompression of all three components of spinal stenosis 10:10 ~ 10:13
- David Ditsworth: Treatment of central and paracentral lumbar disc herniations with a transforaminal double

V

entional Pain Management)

Moderator: Vijay S. Kumar, Geun Sung Song

Timeline

Lawrence Rothstein:	Comparison of anterior epiduroscopic findings versus pre-procedure MRI during upright anterior epiduroscopic laser discectomy	10:33 ~ 10:36
Xifeng Zhang:	Far posterolateral approach and paramidline approach endoscopic surgery for L5-S1 level disc herniations	10:37 ~ 10:40
Yasushi Miura:	Clinical results of percutaneous endoscopic lumbar discectomy (PELD) by transforaminal approach: The first eight months' achievement in Japan	10:41 ~ 10:44
Cagatay Ozturk:	The posterior endoscopic discectomy for the treatment of lumbar disc herniation	10:45 ~ 10:48
Anthony T. Yeung:	Percutaneous transforaminal endoscopic discectomy for foraminal and extraforaminal L5-S1 disc herniations: A retrospective review and case series report	10:49 ~ 10:52
Andrew Fagan:	Epidural steroid injection: Interlaminar or transforaminal?	10:53 ~ 10:56
Wonsok Chang:	Lumbar facet rhizotomy by using Ho:YAG laser thermocoagulation	10:57 ~ 11:00
Christopher C. Meredith:	Treatment of failed back surgery syndrome with transforaminal endoscopic surgery	11:01 ~ 11:04
Christopher C. Meredith:	Endoscopic Treatment of back pain resulting from osteoporotic spine fractures	11:05 ~ 11:08
Agus Yudianto:	Endoscopic surgery for the treatment of lumbar disc herniation in indonesia	11:09 ~ 11:12
Essam Emara:	Evaluation of C2 root ganglionectomy in the management of cervicogenic headache	11:13 ~ 11:16
Jae Hun Cha:	Microendoscopic discectomy for far lateral disc herniation	11:17 ~ 11:20

Congress Room-II (TapaBallroom # 2)

Moderator: Tarik Yazar, Yasushi Miura

Timeline

Christopher C. Meredith:	Combined endoscopic and minimally invasive treatment of grade 2 spondylolysis	9:30 ~ 9:33
Ricardo Monge:	Transpedicular unilateral stabilization: Indications and contraindications	9:34 ~ 9:37
Yue Zhou:	Endoscopic transforaminal lumbar decompression, interbody fusion and pedicle screw fixation: Report of 42 cases	9:38 ~ 9:41
Yue Zhou:	Endoscopic transforaminal lumbar decompression, interbody fusion and pedicle screw fixation under X-tube system: Report of 42 cases	9:42 ~ 9:45
Daniel Gastambide:	Complications and results of 35 percutaneous lumbar fusions	9:46 ~ 9:49
Neel Anand:	Minimally invasive percutaneous multilevel 360 degree fusion for lumbar degenerative scoliosis? Radiologic and clinical follow-up	9:50 ~ 9:53
David Hall:	Unilateral pedicle screw placement	9:54 ~ 9:57
Ioannis Polythodorakis:	Percutaneous fusion for the treatment of spine instability: First Greek experience	9:58 ~ 10:01
Mark Grubb:	Early results of patients treated with percutaneous interbody fusions	10:02 ~ 10:05
Choll W. Kim:	Surgeon perceptions of minimally invasive spine surgery	10:06 ~ 10:09
Tarik Yazar:	Intraoperative endoscopically checked transpedicular screw insertion: Preliminary Report	10:10 ~ 10:13
		10:14 ~ 10:17

Moderator: Cheng-Hsing Kao, Chan Shik Shim

Timeline

Nafees Ahmad Hamid:	Minimally invasive spinal surgery-Initial experience	10:33 ~ 10:36
Oleksandr Nikolaevich Bryekhov:	New technical aspects of minimal invasive posterior interbody fusion	10:37 ~ 10:40
Qixin Chen:	Percutaneous internal fixation with the Sextant Spinal System for thoracolumbar fractures	10:41 ~ 10:44
Cheng-Hsing Kao:	Percutaneous pedicle screw fixation in multiple-level degenerative lumbar disorders	10:45 ~ 10:48
Mario Morosi:	Minimally invasive TLIF for degenerative lumbar spine disease	10:49 ~ 10:52
Sooyoung Oh:	Autologous bone plugs fusion for treatment of lumbar instabilities	10:53 ~ 10:56
Tony Tannoury:	Percutaneous pedicle screw fixation: Safety and accuracy in degenerative and traumatic conditions	10:57 ~ 11:00
Gilad J. Regev:	Determining the proper cage length with respect to the insertion point, in minimally invasive direct lateral interbody fusion: A MRI study	11:01 ~ 11:04
Carlos Fernando Arias Pesantez:	Silicon matrix calcium phosphate as a bone substitute-Early clinical and radiological results: A prospective study with twelve month follow-up	11:05 ~ 11:08
Cristiano Magalhaes Menezes:	Initial experience with minimally invasive transforaminal lumbar interbody fusion associated to percutaneous pedicle screws fixation	11:09 ~ 11:12
Sohei Ebara:	Thoracoscopic anterior correction and fixation of scoliosis	11:13 ~ 11:16
		11:17 ~ 11:20

Congress Room-III (Honolulu Suit Room # 1)

Moderator: Aliro San Martin, Junichi Mizuno

Timeline

Yi-Sheng Tsang:	Percutaneous endoscopic cervical discectomy using a working channel scope and side-firing laser: Surgical technique and clinical results	9:30 ~ 9:33
Larry T. Khoo:	Anatomical considerations for cervical pedicle screw insertion: The use of multiplanar computerized tomography measurements in 102 consecutive clinical cases	9:34 ~ 9:37
Larry T. Khoo:	Anatomic considerations for C2 pedicle screw placement: The use of computerized tomography measurements	9:38 ~ 9:41
Alastair Hudd:	Safe entry of thoracic pedicle screws: A morphometric analysis	9:42 ~ 9:45

Oral Poster-VII

(Endoscopic Spine Surgery, Dynamic Stabilization, Vertebroplasty, Anatomy)

Gilad J. Regev:	Nerve injury to the posterior rami medial branch during the insertion of pedicle screws: Comparison of the mini-open vs. percutaneous pedicle screw insertion techniques	9:46 – 9:49
Gilad J. Regev:	Location of the lumbar ventral nerve roots and the retroperitoneal large vessels with respect to minimally invasive, lateral interbody fusion technique, in the normally aligned and deformed	9:50 – 9:53
Thomas Hoogland:	Cervical percutaneous nucleotomy	9:54 – 9:57
Yong Ahn:	Immediate pain improvement is a useful predictor of long term favorable outcome after percutaneous laser disc decompression for cervical disc herniation	9:58 – 10:01
Stefan Hellinger:	Minimal invasive surgery of the cervical disc-The approach with dilation cannulas in cervical endoscopy as a further development in comparison with the laser assisted decompression	10:02 – 10:05
Cagatay Ozturk:	Dynamic interspinous stabilization with coflex device in the treatment of symptomatic lumbar spinal stenosis- minimum one-year follow-up	10:06 – 10:09
Frederic Pierre Collignon:	Safety and effectiveness of a novel percutaneous interspinous implant (Aperius) in lumbar spinal stenosis with neurogenic intermittent claudication	10:10 – 10:13
Daniel Fernando Cabezas Cuevas:	Clinical and surgical experience after first 100 percutaneous interspinous implants (Aperius) for the surgical treatment of lumbar canal stenosis	10:14 – 10:17
Moderator: Chang Rak Choi, Thomas Hoogland		Timeline
Luis Herrera:	The combination of percutaneous endoscopic disectomy with the place of device for intervertebral assisted motion (DIAM), a prudent option of treatment	10:33 – 10:36
Prem Pillay:	Posterior dynamic stabilization and microsurgical decompression with disc preservation for lumbar canal stenosis/lumbar disc degeneration	10:37 – 10:40
Zhong-liang Deng:	Measurement of temperature caused by bone cement polymerization during clinical percutaneous vertebroplasty	10:41 – 10:44
Aloysius Bambang Darwono:	Vesselplasty: A new concept to treat vertebral compression fractures-3 year follow-up study	10:45 – 10:48
Christopher Bliemel:	Kyphoplasty and vertebroplasty-Comparison of both procedures	10:49 – 10:52
Li Siming:	The treatment of thoracklumbar vertebral burst fracture via transpedicular bone grafting spongisaplasty	10:53 – 10:56
Michael Kunz:	Indication and outcome of Kyphoplasty in osteoporotic fractures of spine	10:57 – 11:00
Tarik Yazar:	Comparison of vesselplasty with kyphoplasty and vertebroplasty	11:01 – 11:04
Tarik Yazar:	The role of transosseous venography in vertebroplasty	11:05 – 11:08
Ersin Tasatan:	Treatment of osteoporotic vertebral fractures with kyphoplasty method	11:09 – 11:12
Jiong Jiong Guo:	The emotional state of the patient after balloon kyphoplasty	11:13 – 11:16
		11:17 – 11:20

Congress Room-IV (Honolulu Suit Room # 2)

Moderator: Joo-Seung Kim, James J. Yue

		Timeline
Won Gyu Choi:	Unilateral hemilaminectomy for one-stage removal of intradural extramedullary tumors with extraspinal extension	9:30 – 9:33
Jiong Jiong Guo:	Long-term outcomes of the revision open lumbar discectomy by fenestration-A follow-up study of more than 10 years	9:34 – 9:37
Akihiro Okawa:	Clinical outcome of endopic decompression for lumbar canal stenosis with low-grade degenerative spondylolisthesis	9:38 – 9:41
Dong-Seong Shin:	Modified transcorporeal approach for upward migrated cervical disc: A technical note	9:42 – 9:45
Soo-Han Kim:	Thoracic myelopathy caused by ossification of the ligamentum flavum	9:46 – 9:49
Kwan Ho Park:	A microscopic tubular retractor approach in the treatment of lumbar foraminal stenosis and far lateral disc herniations: Surgical technique and clinical outcomes	9:50 – 9:53
Kwan Ho Park:	Unilateral approach and bilateral decompression of lumbar spinal stenosis with microscope tubular retractor system	9:54 – 9:57
Pradyumna P. Raiturker:	Case reports of anterior extraoral endoscope assisted surgical treatment of odontoid pathologies	9:58 – 10:01
Sebastian Ruetten:	Full-endoscopic operation of lumbar recess stenosis compared to the microsurgical technique	10:02 – 10:05
Tolgay Satana:	Percutaneous cervical disc decompression	10:06 – 10:09
Yuri Shulev:	Ventral uncoforaminotomy or ACDF-Clinical outcomes comparison	10:10 – 10:13
		10:14 – 10:17
Moderator: Kim Tae-Sung , Gun Choi		Timeline
Larry T. Khoo:	Minimally invasive microsurgical lumbar decompression with preservation of the contralateral outer lamina cortex and spinal process: 4-year comparative outcomes in one- and two- level	10:33 – 10:36
Ricardo Monge:	Percutaneous manual foraminoplasty in cervical spine	10:37 – 10:40
Ricardo Monge:	Origin of disc pain: Biochemical and histological concepts	10:41 – 10:44
Yohei Yuzawa:	Evaluation of invasiveness of the intermuscular midlateral approach TILIF method: Comparison with the conventional midline approach TILIF method	10:45 – 10:48
Choll W. Kim:	Surgeons' perceptions of spinal navigation	10:49 – 10:52
Nils Diethelm Haberland:	Spinal navigation with intraoperative 3D-imaging: CT or 3D-C-arm?	10:53 – 10:56
E. Thomas Chappell:	The role of image guidance in minimally-invasive spine surgery	10:57 – 11:00

Oral Poster-VIII

(Minimally Access Spine Surgery, Basic Science)

Yue Zhou: Preliminary investigation on two sides internal iliac artery ligation and tumor separation under laparoscope before resection of sacral tumor posteriorly

11:01~11:04

Yue Zhou: Traumatic response in patients following microendoscopic discectomy: Clinical analysis of 44

11:05~11:08

Donald Zhang: Minimally invasive management of lumbar spinal stenosis: Bilateral lumbar laminectomy and foraminotomy using a unilateral approach

11:09~11:12

11:13~11:16

11:17~11:20



Poster Presentation

The 1st Triennial World Congress of Minimally Invasive Spine Surgery & Techniques

June 3 –7, 2008.

Hilton Hawaiian Village, Honolulu, Hawaii, USA

June 5, 8:00 ~ June 7, 9:30 am

Poster Presentation

Corresponding Author	Topic
Koang Hum Bak:	Functional spinal unit angle according to the level after cervical artificial disc replacement
Sung Suk Paeng:	Derangement of posterior annulus associated with back pain
Kin-Man Yip:	Miniature optic fiber pressure sensor for simultaneous intradiscal and facet joint pressure measurement under various in-vitro loading conditions
Wesley Johnson:	Comparison of two different implant materials in minimally invasive facet fusion: An in vitro biomechanical study
June Ho Lee:	Percutaneous endoscopic cervical discectomy for noncontained soft disc herniations: Surgical technique and clinical follow-up over a minimum of 2 years
Kyeong Bo Choi:	Reherniation after open microdiscectomy: A comparison between ipsilateral and contralateral reherniation
Jee-Soo Jang:	Surgical outcome of lower lumbar burst fractures L3-L5 [Clinical study]
Dong Yeob Lee:	The learning curve for percutaneous endoscopic lumbar discectomy
Gun Choi:	Early clinical results for X-MR assisted percutaneous transforaminal lumbar discectomy
Gun Choi:	Percutaneous endoscopic discectomy for extraforaminal lumbar disc herniations: Extraforaminal targeted fragmentectomy-Technique using working channel endoscope
Gun Choi:	Percutaneous endoscopic interlaminar discectomy for intracanalicular disc herniations at L5-S1 using a rigid working channel endoscope
Tag-Geun Jung:	Prognostic factors of foraminal or extraforaminal L5-S1 lumbar disc herniation operated by paraspinous microsurgical decompression - Minimum two year follow up
Dong Yeob Lee:	Microdecompression for extraforaminal L5-S1 disc herniation: The significance of concomitant foraminal disc herniation for postoperative leg pain
Chan Shik Shim:	Percutaneous translaminar facet pedicle screw fixation following Mini-ALIF
Sang Won Lee:	Surgical experiences of the video-assisted thoracoscopic surgery for spinal disorder: Preliminary report
Yue Zhou:	Minimally invasive strategies and options for far-lateral lumbar disc herniation
Chia Yi Kao:	Pulsed radiofrequency of cervical medial branches for treatment of whiplash related cervical zygapophysial joints pain
JunMo Park:	Analysis of dispersal patterns of lumbar interlaminar epidural injectates using CT
Kang Lu:	Sacroiliac joint pain after lumbosacral fusion: a study with double sacroiliac joint blocks
Po-chou Liliang:	Fluoroscopy-guided sacroiliac joint corticosteroid injections for sacroiliac joint pain
Sangjin Lee:	Intravascular uptake in transforaminal epidural block: A prospective evaluation of 1,068 patients
Seung-Eun Chung:	Comparative radiologic evaluation of percutaneous endoscopic lumbar discectomy and open microdiscectomy: A matched cohort analysis
Enrico Tessitore:	Vertebroplasty assisted by percutaneous temporary fixation for osteoporotic fractures: technical case report
Toru Koizumi:	Percutaneous vertebroplasty in our institute
Wonsok Chang:	Unipedicular vertebroplasty for osteoporotic compression fracture
Anthony T. Yeung:	The young endoscopic spine surgery technique for failed back surgery syndrome
Arnold Graham Smith:	The use of pedicle screw fixation and BMP to treat SIJ arthrodesis
Thomas Hoogland:	Endoscopic transforaminal discectomy (ETD)
Thomas Hoogland:	Endoscopic transforaminal discectomy for recurrent lumbar disc herniation
Chan Shik Shim:	Transcorporeal approach for disc herniation at C2-C3
Chul Woo Lee:	Percutaneous vertebroplasty in osteoporotic vertebral compression fracture patients using unilateral extrapedicular approach
Claudio Schonauer:	Simultaneous open cervical and percutaneous lumbar stabilization in complex spine trauma: Case report
Dae Hyeon Maeng:	Extrapleural approach in lower thoracic and thoracolumbar lesions
Dimitrios Kountouris:	Painful legs and moving toes (PLMT) syndrome vs morton syndrome
Dong Yeob Lee:	Spinous process splitting laminectomy for lumbar canal stenosis: A critical appraisal
Dong Yeob Lee:	Carbon dioxide laser-assisted microdecompression for extraforaminal lumbar disc herniation at the L5-S1 level: Short-term follow-up results

- Essam Emara:** Percutaneous microdecompressive cervical discectomy
- Jin-Sung Kim:** Removal of discal cyst using percutaneous working channel endoscope via transforaminal or interlaminar route
- Jin-Sung Kim:** Surgical results of oblique paraspinous approach in upper lumbar disc herniation
- June Ho Lee:** Laser-assisted anterior cervical corpectomy versus posterior laminoplasty for cervical myelopathic patients with multilevel ossification of the posterior longitudinal ligament
- June Ho Lee:** C1-2 transarticular screw fixation in high-riding vertebral artery: Suggestion of new trajectory
- Koji Sato:** The comparison of the implants for lumbar minimally invasive spine surgery
- Lawrence Rothstein:** Anterior epidural endoscopy
- Lawrence Rothstein:** Anterior discectomy
- Lee Raeseop:** Golf-related multiple spinous process fracture (Clay-shoveler's fracture): Case report
- Tarik Yazar:** Percutaneous indirect foraminotomy by an expandable disc device
- Raheleh Rahimi Darabad:** Association between a high intensity zone in vertebral mr imaging and low back pain-A review article
- Sang-Joon Park:** Percutaneous endoscopic lumbar discectomy for highly upward-migrated L5-S1 disc herniation: Technical case report
- Sung Suk Paeng:** Spinal meningiomas: Expression of PR, Ki-67, and TG
- Tarik Yazar:** Can we measure the stiffness of bone in vivo by a minimally invasive technique-cadaver study
- Woo Jin Choe:** Early clinical results of Coflex interspinous implant in spinal degenerative disease
- Woo Jin Choe:** Secondary spondylolisthesis due to facet loosening after relatively large sized artificial disc of cervical spine
- Yue Zhou:** Clinical experience and results with lumbar MED procedure: A follow-up study of 5 years
- Yue Zhou:** Treatment of far lateral lumbar disc herniation involving intertransversal approach with METRx system
- Yue Zhou:** Minimally invasive posterior lumbar interbody fusion for the treatment of degenerative lumbar diseases
- Yue Zhou:** The biomechanical change of lumbar unilateral graded facetectomy and strategies of its microsurgical reconstruction-Report of 23 cases
- Yue Zhou:** Discectomy of extraforaminal lumbar disc herniation through the infratransverse processes by endoscope
- Yue Zhou:** Causes and surgical treatment of MED postoperative discitis
- Yue Zhou:** Microendoscopic strategies and options for recurrent lumbar disc herniation.
- Yue Zhou:** The clinical features and microendoscopic (METRx) decompression for extraforaminal entrapment of the L-5 spinal nerve-5 cases reported
- Yue Zhou:** Follow-up study of twenty-eight cases of lumbar disc herniation treated with percutaneous nucleoplasty
- Yue Zhou:** Comparison of recurrence and revision method after microinvasive and open discectomy for the treatment of lumbar disc herniations:
- Yue Zhou:** Treatment of lumbar intervertebral disc herniation with lateral recess stenosis by microendoscopic discectomy: 79 cases report
- Yue Zhou:** Treatment of the special lumbar intervertebral disc herniation using microendoscopic(MED-II) discectomy system via posterior interlaminar approach
- Yue Zhou:** The biomechanical change of lumbar unilateral graded facetectomy and strategies of its microsurgical reconstruction: Report of 23 cases
- Yue Zhou:** Minimally invasive strategies and options for far-lateral lumbar disc herniation
- Yue Zhou:** The clinical comparison of microendoscopic lumbar discectomy (METRx) with the preservation of the ligamentum flavum
- Yue Zhou:** Clinical application of transforaminal lumbar decompression, interbody fusion and Sextant percutaneous pedicle screw fixation under METRx system
- Yue Zhou:** Clinical study of endoscopic transforaminal lumbar interbody fusion by X-tube system: comparison of unilateral and bilateral pedicle screws fixation
- Yue Zhou:** Report for two cases of microendoscopically assisted anterior screw fixation for the type II odontoid fracture
- Myung-Joon Kim:** Brown-Sequard syndrome produced by cervical disc herniation: Report of physical therapy after
- Sang Hyeop Jeon:** Management of the iatrogenic dural defect during transthoracic spine surgery
- Jong-Mog Shin:** Mini-transforaminal lumbar interbody fusion versus anterior lumbar interbody fusion augmented by percutaneous pedicle screw fixation
- Byung Kwan Choi:** Solitary osteochondroma on cervical facet joint
- Geun Sung Song:** Intradura-extramedullary ependymoma of the cervical spine
- Jihoon Jeong:** Multi-mode optical spectral-signature bioimaging for surgical applications
- Stefan Hellinger:** 3 in one-a new combination procedure for disc surgery-radiowave disc ablation, annulus decompression and mechanic nucleotomy in one- basics and a prospective study

