

PASMISS Program

August 18th

16:00~	Registration
16:00~17:00	Board Members` meeting
18:00~20:30	Welcome reception

August 19th

8:00~ 8:10 **Opening Ceremony**

Academic program

8:10~ 8:34 **Basic Research 1**

Moderators: **Chul Hyung Kang, Mamoru Kawakami**

- 1-1-1** Interaction of Mesenchymal Stem Cells and Nucleus Pulposus Cells Concultured in Iginate Beads: Regulation of Extracellular Matrix Metabolism and Telomerase Activity by Cell Fusion
Chi-Chien Niu, et al., Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Linko, Taiwan
- 1-1-2** An in-vitro study on human nucleus pulposes regeneration by using a combination of nucleus pulposus cells and a bioactive tri-copolymer scaffold
Shu-Hua Yang, et al., Department of Orthopedics, National Taiwan University Hospital,
- 1-1-3** Viscoelastic Homogeneity, Recovery and Hydration in Rat Tail Intercostal Discs
Shih-Youeng Chuang, et al., Department of Orthopaedic Surgery, Tri-Service General Hospital, National Defense Medical Center,

8:34~ 8:58 **Basic Research 2**

Moderators: **Chi-Chien Niu, Chang-Hoon Jeon**

- 1-2-1** Accelerated Interleukin-6 Gene Expression in Patients following open versus Microendoscopic Lumbar Discectomy
Tsung-Jen Huang, et al., Department of Orthopedic Surgery, Chang Gung Memorial Hospital at Chia-Yi, College of Medicine, Chang Gung University,
- 1-2-2** Ozone Chemonucleolysis on Normal Rabbit Lumbar Discs: Background of MRI Scan and Histology
Byung-Chan Jeon, et al., Department of Neurosurgery, Kosin University Gospel Hospital,
- 1-2-3** Morphometric Analysis of the Lumbar Extraforaminal Triangle in Cadaver
Makoto Egusa, et al., Department of Orthopedic Surgery, Kawasaki Medical School,

8:58~ 9:38 Kyphoplasty

Moderators: **BamBang Darwono, Jung-Pin Wang**

- 1-3-1** Kyphoplasty for Osteoporotic and Osteolytic Vertebral Compression Fractures -Histology, Biomechanics, and Clinical Results
Daisuke Togawa, et al., The Cleveland Clinic Foundation Cleveland Clininc Spine Institute,
- 1-3-2** Preliminary clinical report of "Sky-Bone Expender" percutaneous kyphoplasty
ZHENG Zhaomin, et al., The First Affiliated Hospital, Sun Yat-sen University
- 1-3-3** Percutaneous Kyphoplasty with Sky Expander system- Preliminary Result
Hsi-Ching Hsu, et al., Department of Orthopaedic Surgery, National Taiwan University Hospital,
- 1-3-4** Kyphoplasty with endoscopic aid for vertebral compression fracture including the cases of severe bone defect
Yasunori Tatara, et al., Department of Orthopedic surgery, Kantoh Rosai Hospital
- 1-3-5** Vesselplasty a new concept to treatable compression fractures
BamBang Darwono, Dept of Orthopaedic Surgery, The Army Central Hospital / RSPAD

9:38 ~ 10:00 Tea Break

10:00 ~ 11:30 Symposium 1 : Percutaneous Endoscopic Discectomy

Moderators: **Akira Dezawa, Tsung-Jen Huang**

- 1-4S-1** Foraminal endoscopic approach to the lateral lumbar disc lesions
Akira Dezawa, et al.,
- 1-4S-2** Current status of minimally invasive spine surgery in Europe : Foraminoscopy
Leu Hj.et al., University of Zurich/Switzerland Orthopaedic Spinal Surgery, Bethania Spine Base
- 1-4S-3** Percutaneous Endoscopic Lumbar Disc Spinal Surgery (5 years , 240 cases)
Shao Keh Hsu, et al., Tungs' Taichung MetroHarbor Hospital
- 1-4S-4** Clinical Outcome of Posterolateral Endoscopic Surgery for Pyogenic Spondylodiscitis: Results of 15 Patients with Serious Comorbid Conditions.
Manabu Ito, et al., Dept. of Orthopedic Surg., Hokkaido Univ. Graduate School of Med., Sapporo, Japan
- 1-4S-5** Transforaminal Endoscopic Approach of Lumbar Disc Herniation
- techniques and pitfalls -
Jae-Yoon Chung, Department of Orthopedics, Chonnam National University Hospital

11:30 ~ 12:18 Percutaneous Endoscopic Discectomy (PED)

Moderators: **Shing-Sheng Wu, Heui-Jeon Park**

- 1-5-1** Percutaneous Endoscopic Approach of L5-S1 Foraminal and Far-out Disc Herniations
Kyung Hyun Shin, et al., Spine Center, Orthopaedic Surgery, Shin Hospital
- 1-5-2** Percutaneous Uniportal Interlaminar Full-endoscopic Lumbar Disc Surgery
Kyung Hyun Shin, et al., Spine Center, Orthopaedic Surgery, Shin Hospital
- 1-5-3** Endoscopic lumbar discectomy using interlamniar approach
Byung-Joon Shin, et al., Spine Center, Department of Orthopaedic Surgery, Soonchunhyang University Hospital
- 1-5-4** Percutaneous Endoscopic Lumbar Discectomy in Management of Lumbar Disc Diseases-A Preliminary Results
Shing-Sheng Wu, et al., Department of Orthopaedic, Tri-Service General Hospital, National Defense Medical Center,
- 1-5-5** THE SURGICAL RESULTS OF PERCUTANEOUS INTERLAMINAR ENDOSCOPIC RUPTURED DISC EXCISION IN LUMBAR SPINE
Jin Hwan Kim, et al., Department of Orthopedic Surgery, Inje University, Ilsan Paik Hospital, Kyounggi,
- 1-5-6** Percutaneous Endoscopic Cervical Discectomy with Working Channel Scope for Ruptured Cervical Disc
Sang-Ho Lee, et al., Department of Neurosurgery, Wooidul Spine Hospital, Seoul

12:18 ~ 13:18 Luncheon Seminar 1

Moderators: **DATO' K.S.Sivananthan**

Ulrich Berlemann, Spine Center-Thun, Switzerland

13:18 ~ 13:23 Short Break

13:23 ~ 14:03 Lumbar Fusion

Moderators: **Jae-Yoon Chung, Shinichi Konno**

- 1-6-1** Unilateral transaxillary lumbar interbody fusion (Uta LIF)-A possible minimally invasive approach to avoid extensive dissection of the paravertebral muscles
Mamoru Kawakami, et al., Department of Orthopaedic Surgery, Wakayama Medical University,
- 1-6-2** Minimally Invasive extraforaminal lumbar interbody fusion (ELIF) : clinical feasibility and initial results

Raijiro Katsuno, et al., Department of Orthopedic Surgery, Kawasaki Medical School

1-6-3 Minimally Invasive TLBC Cage Insertion via Transperitoneal, Retroperitoneal, or Transforaminal Approach

Yutaka Hiraizumi, et al., Dept. of Orthopaedic Surgery, Showa University

1-6-4 Comparison of unilateral PLIF with bilateral PLIF for degenerative spondylolisthesis

Kota Watanabe, et al., Department of Orthopaedic Surgery, Keio University,

1-6-5 The posterior lumbar interbody fusion as MIS minimally invasive surgery, LIS less Invasive surgery

Taniguchi, K. et al., Department of Orthopedic Surgery, Kantoh Rosai Hospital,

14:03 ~ 14:35 MED 1

Moderators: **Morio Matsumoto, Jae-Won You**

1-7-1 Treatment of far lateral lumbar disc herniation involving intertransversal approach with METRx system

Zhou Yue, et al. Department of Orthopedics, Second Affiliated Hospital, Third Military Medical University

1-7-2 Microendoscopic discectomy for the lateral disc herniation. A modified technique and application.

Kazuhiro Ohnaru, et al., Department of Orthopedic Surgery, Kawasaki Medical School

1-7-3 Minimally Invasive Decompression Surgery for Extraforaminal Stenosis at the Lumbosacral Junction

Morio Matsumoto et al., Dept of Uniden Musculoskeletal Reconstruction & Regeneration Surgery, Keio University,

1-7-4 Clinical and Radiological Findings of Foraminal Disc Herniation

Yong-Min Kim, et al., Department of Orthopedic Surgery, Chungbuk National University Hospital

14:35 ~ 15:00 Tea Break

15:00 ~ 16:00 Afternoon Seminar 1

Moderator: **Tan Seang Beng**

Prospective evaluation of minimally invasive fusion and instrumentation using TLIF and Sextant Instrumentation

Richard G Fessler Professor of Neurosurgery of The University of Chicago Medical Center

16:00~ 16:10 Short Break

16:10 ~ 16:50 Miscellaneous 1

Moderators: **Jae-Sung Ahn, Yutaka Hiraizumi**

- 1-8-1** Intralesional injection of absolute alcohol into symptomatic vertebral hemangiomas
Masahiro Kawanishi, Department of Neurosurgery, Takeda General Hospital
- 1-8-2** Accute effect of Epidural Steroid Injection for Low Back Pain with Sciatica
Hsi-Ching Hsu, et al., Department of Orthopaedic Surgery, National Taiwan University Hospital,
- 1-8-3** Aspiration Test and Patency Test: Simple Substitutes for Intra-osseous Venography in Vertebroplasty
Jin Sup Yeom, et al., Department of Orthopaedic Surgery, Seoul National University College of Medicine,
- 1-8-4** Minimally Invasive debridment & drainage for the Tb. Spondylitis
Seung-Woo, Seo, et al., Med.Coll., Korea Univ. Department O.S
- 1-8-5** A comparison of spinal & general anesthesia in lumbar spine surgery
Tae-Wook Nam, et al., Spine Center, Busan Centum Hospital

16:50 ~17:22 MED2

Moderators: **Agus Hadian Rahim, Masatsune Yamagata**

- 1-9-1** Micro Endoscopic Discectomy for Lumbar Hernia Nucleus Pulposus at Hasan Sadikin Hospital Bandung
Agus Hadian Rahim, et al., Department of Orthopaedic & Traumatology, Hasan Sadikin Bandung
- 1-9-2** A Case of Thoracic OYL Treated with MED Technique.
- 1-9-3** **Harumichi Oka**, et al., Department of Orthopedic Surgery, Oita Oka Hospital
Early experience in Microendoscopic Decomperseion /Discectomy
- 1-9-4** **Areesak Chotivichit**, Department of Orthopaedic Surgery, Siriraj Hospital, Mahidol University
Effect of clinical pass on outcome of endoscopic discectomy in patients with lumbar disc hernitation
Eiji Hanaoka, et al.,Department of Orthopaedic Surgery, Chiba Insurance Hospital

17:22 ~ 17:42

Poster Session 1

- 1-10P-1** Moderators: **Toru Hasegawa, Hwan-Mo Lee**
Clinical Outocome of Intradiscal Electrothermal Therapy for Acute and Chronic Discogenic Low BackPain
- 1-10P-2** **Shan-Chih Chen**, et al., Department of Orthopedic Surgery, Cathy General Hospital
Off-Label Use of MeTrx System at Knee

1-10P-3 Ho Ta-Feng, et al., Department of Orthopedic Surgery, Show-Chwan Memorial Hospital,
Minimally Invasive Transforaminal Lumbar Interbody Fusion (TLIF)

1-10P-4 Ho Ta-Feng, et al., Department of Orthopedic Surgery, Show-Chwan Memorial Hospital,
Clinical Results of Microendoscopic Discectomy in Lumbar Disc Herniation

HTChen, et al., Department of Orthopaedic Surgery, China Medical University Hospital

17:42 ~ 17:57 Poster Session 2

Moderators: **Eung-Ha Kim, Luthfi Gatam**

1-11P-1 Clinical and microsurgical finding of lumbar soft disc herniation in the elderly patients

Dae Moo Shim, et al., Department of Orthopaedic Surgery, School of Medicine, Wonkwang
University

1-11P-2 Percutaneous vertebroplasty for vertebral compression fractures

Masahiro Kawanishi, Department of Neurosurgery, Takeda General Hospital

1-11P-3 Transforaminal Endoscopic Discectomy and Pulsed Radiofrequency

Therapy in Lumbar Discogenic Pain

Wang Chao-Jan, Department of Neurosurgery , Wei Gong Memorial Hospital, Taiwan

1-11P-4 MINIMALLY ANTERIOR INTERBODY FUSION AND POSTERIOR FIXATION WITH
PARAMEDIAN APPROACH FOR THE TREATMENT OF FAILED BACK SYNDROME:
WITHOUT POSTERIOR DECOMPRESSION

Chang-Hoon Jeon, et al., Dept. of Orthop. Surg. Ajou University Medical Center, Suwon,

19:00 ~ Official Banquet

August 20th

8:00 ~ 8:32 **Scoliosis**

Moderators: **Chong-Suh Lee, Sohei Ebara**

- 2-1-1** The effect of intersegmental compression on the 3-D Correctoin of idiopathic Scoliosis using Thoracoscopic Surgery
Chong Suh Lee, et al., Department of Orthopedic Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine
- 2-1-2** Comparison of operative invasion between open and thoracoscopic anterior surgery for adolescent idiopathic scoliosis
Kazuhiro Hasegawa, et al., Department Spine Center, Seirei Hamamatsu General Hospital,
- 2-1-3** A new system using thoracoscopic approach for anterior correction and fixation for scoliosis
Sohei Ebara, et al., Spine & Scoliosis Division, Chigasaki Tokushukai Medical Center (CTMC)
- 2-1-4** Endoscopic correction of idiopathic scoliosis. One rod vs two rod system. Case report.
Tae-Wook Nam, et al., Spine Center, Busan Centum Hospital

8:32 ~ 9:20 **Vertebroplasty**

Moderators: **Hiroaki Nakamura, Yen-Yao Li**

- 2-2-1** Osteoplasty for Acute vertebral compression or burst fractures
Koang Hum Bak, et al., Department of Neurosurgery, School of Medicine, Hanyang University,
- 2-2-2** The Appropriate Cement Volume in Vertebroplasty
Chang Ho-Guen, et al., Department of Orthopedic Surgery, Hallym University Sacred Heart Hospital,
- 2-2-3** Results of Vertebroplasty According to the Amount of Injected Bone Cement in Treating Osteoporotic Compression Fracture
Joon-Ho Lee et al., Department of Orthopaedic Surgery, Chungnam National University, School of medicine,
- 2-2-4** Outcomes of Percutaneous Vertebroplasty
Areesak Chotivichit, et al., Department of Orthopaedic surgery Siriraj Hospital, Mahidol University
- 2-2-5** Extra pedicular vertebroplasty for outeoporosis of the spine
Adi HD, et al., Dr. Slamet General Hospital Garut
- 2-2-6** Vertebroplasty for pseudoarthrosis following osteoporotic vertebral fracture using urinary balloon and endoscope.

Hiroaki Nakamura, et al., Department of Orthopaedic Surgery, Osaka City University
Postgraduate School of Medicine

9:20 ~ 9:42 Tea Break

9:42 ~ 11:22 Symposium2: Minimally invasive spine surgeries in Asian countries

Moderators: **Po-Quang Chen, Motonobu Natsuyama**

2-3S-1 Minimally invasive spine surgeries in Singapore

Tan Seang Beng, Singapore General Hospital

2-3S-2 Recent Advances and Future Perspectives of Minimally Invasive Spine
Surgery in Taiwan

Tsung-Jen Huang, Chang Gung Memorial Hospital at Chia-Yi, College of Medicine, Chang
Gung University

2-3S-3 Minimally invasive spine surgeries in Japan

Munehito Yoshida, Wakayama Medical University

2-3S-4 Recent Advances and Future Perspective of Minimally Invasive Spine Surgeries
in Indonesia

Komang Agung, Orthopaedic & Traumatology Department, Dr. Soetomo General Hospital,
Medical Faculty of Airlangga University

2-3S-5 Minimally Invasive Spine Surgeries in Thailand

Areesak Chotivichit, Department of Orthopaedic Surgery, Siriraj Hospital, Mahidol University

2-3S-6 Minimally Invasive Spine Surgeries in Korea

Chong-Suh Lee, Department of Orthopedics, Samsung Medical Center, Sungkyunkwan
University

11:22 ~ 12:02 MED 3

Moderators: **Munehito Yoshida, Ming-chau cheng**

2-4-1 Comparison of Results of Microscopic Decompression for Degenerative Lumbar Spinal
Stenosis

Hong-Moon Sohn, et al., Department of Orthopaedic Surgery, College of Medicine, Chosun
University,

2-4-2 Radiographic Analyses after Microendoscopic Decompression Surgery for Lumbar Spinal
Canal Stenosis

Akihito Minamide, et al., Department of Orthopaedic Surgery, Wakayama Medical University

2-4-3 Bilateral decompression through unilateral portal for lumbar spinal stenosis

Yang-Jin Im, et al., Department of Orthopaedic Surgery, School of Medicine,

2-4-4 Early clinical outcomes of microendoscopic discectomy for lumba disc herniation; a comparison with conventional disc excision

Kimiaki Sato, et al., Department of Orthopaedic Surgery, Kurume University, School of Medicine

2-4-5 Minimally Invasive microdiscectomy: Results comparing with open descectomy

Jae Ho Jang, et al., Department of Orthopedic Surgery, College of Medicine, Kosin University

12:10 ~ 13:10 Luncheon Seminar 2

Moderator: **Ki-Tack Kim**

Pathogenesis and recent treatment in spinal canal stenosis with intermittent claudication.

Akira Dezawa, Department of Orthopedic Surgery, School of Medicine, Teikyo University, Mizonokuchi Hospital

13:02 ~ 13:07 Short Break

13:07 ~ 13:47 VATS & Thoraco-Lumbar

Moderators: **Chong-Suh Lee, Kazuhiro Hasegawa**

2-5-1 Minimal Access Spinal Surgery (MASS) in Treating Thoracic Spine Metastasis

Yen-Yao Li, et al., Department of Orthopedic Surgery, Chang Gung Memorial Hospital at Chia-Yi, College of Medicine,

2-5-2 Anterior Approach to the Thoracic Spine with Video-Assisted Thoracoscopic Surgery (VATS)

KO Kwok, et al., Department of Orthopaedics & Traumatology Chinese University of Hong Kong

2-5-3 Thoracic spine surgery with video-assisted thoracoscopic surgery (VATS)

Narasaki K, et al., Spine & Scoliosis Division, Chigasaki Tokushukai Medical Center (CTMC)

2-5-4 Anterior Interbody Fusion of T12, L1 vertebrae with Mini-open Techniques: Indications and Outcome Evaluation

Ruey Mo Lin, National Cheng Kung University Hospital,

2-5-5 Mini-open approaches for the decompression and fusion of T12 and L1

neurologically compromised lesions

Kuo-Yuan Huang, et al., National Cheng Kung University Hospital,

13:47 ~ 14:11 MED 4

Moderators: **June-kyu Lee, Hsien-Te Chen**

2-6-1 Clinical Results for Operations in Cases of recurrent Lumbar Disc Herniation following

Microendoscopic Discectomy

Kazuhiro Maio, et al., Department of Orthopaedic Surgery, Wakayama Medical University

2-6-2 Revisional Endoscopic Surgery in HIVD

Youk Sang Kwon, et al., Spine Center, Orthopaedic Surgery, Shin Hospital

2-6-3 Early Recurrences after microendoscopic lumbar discectomy -Comparative study with conventional open discectomy-

K Ishii, et al., Department of Orthopaedic Surgery, Reconstruction & Regeneration Surgery, School of Medicine, Keio University,

14:11 ~ 14:35 **MED 5**

Moderators: **Shoji Yagi, Areesak Chotivichit**

2-7-1 Anterior cervical decompression and fusion under METRx system- clinical application and discussion of related issues

Zhou Yue, et al. Department of Orthopedics, Second Affiliated Hospital, Third Military Medical University

2-7-2 Endoscopic Partial Laminectomy for Cervical Myelopathy: Preliminary Result and Comparison with Open Method

Shoji Yabuki, et al., Department of Orthopaedic Surgery, Fukushima Medical University

2-7-3 Microendoscopic Foraminotomy for Cervical Disc Herniation

Shoji Yagi, et al., Department of Orthopedic Surgery, Takamatsu Red Cross Hospital

14:35 ~ 14:57 **Tea Break**

14:57 ~ 15:57 **Afternoon Seminar 2**

Moderator: **Ruey-Mo Lin**

Michael Heinzelmann

15:57 ~ 16:53 **Miscellaneous 2**

Moderators: **Yen-Mou Lu, Dae-Moo Shim**

2-8-1 Clinical and MRI findings of Brucellar Spondylitis - One case report

Dae Moo Shim, et al., Department of Orthopaedic Surgery, School of Medicine, Wonkwang University,

2-8-2 Combined laminectomy and retroperitonealoscopic resection of dumbbell-typed tumor

Shin-ichi Konno, et al., Department of Orthopaedic Surgery, Fukushima Medical University,

2-8-3 Early Clinical Evaluation of an Injectable, In-Situ Curing Nucleus Replacement (DiscReplacement)

U. Berlemann, et al., Spine Center, Thun CH

2-8-4 Fenestrated cement technique in the Augmentation of Pedicle Screw Fixation

Yen-Mou Lu, et al., Kaohsiung Medical University Hospital

2-8-5 Endoscopic direct repair of the pars defect in young adults. A report of three cases

Kosaku Higashino, et al., Department of Orthopaedic Surgery, Tokushima University

2-8-6 Computer-aided spine surgery

Narasaki K, et al., Spine & Scoliosis Division, Chigasaki Tokushukai Medical Center (CTMC)

2-8-7 Arthroscopic release of the piriformis muscle under local anesthesia for piriformis syndrome

Akira Dezawa, et al., Department of Orthopedic Surgery, School of Medicine, Teikyo University, Mizonokuchi Hospital

16:53 ~ 17:00 Closing Ceremony