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The 7th ACMISST & 18th KOMISS 2019

International Symposium &
Hands-on Cadaver Workshop for Minimally Invasive Spine Surgery

PROGRAM BOOK

Symposium

May 24–25, 2019

Grand Hilton Hotel, Seoul, Korea

Cadaver Workshop

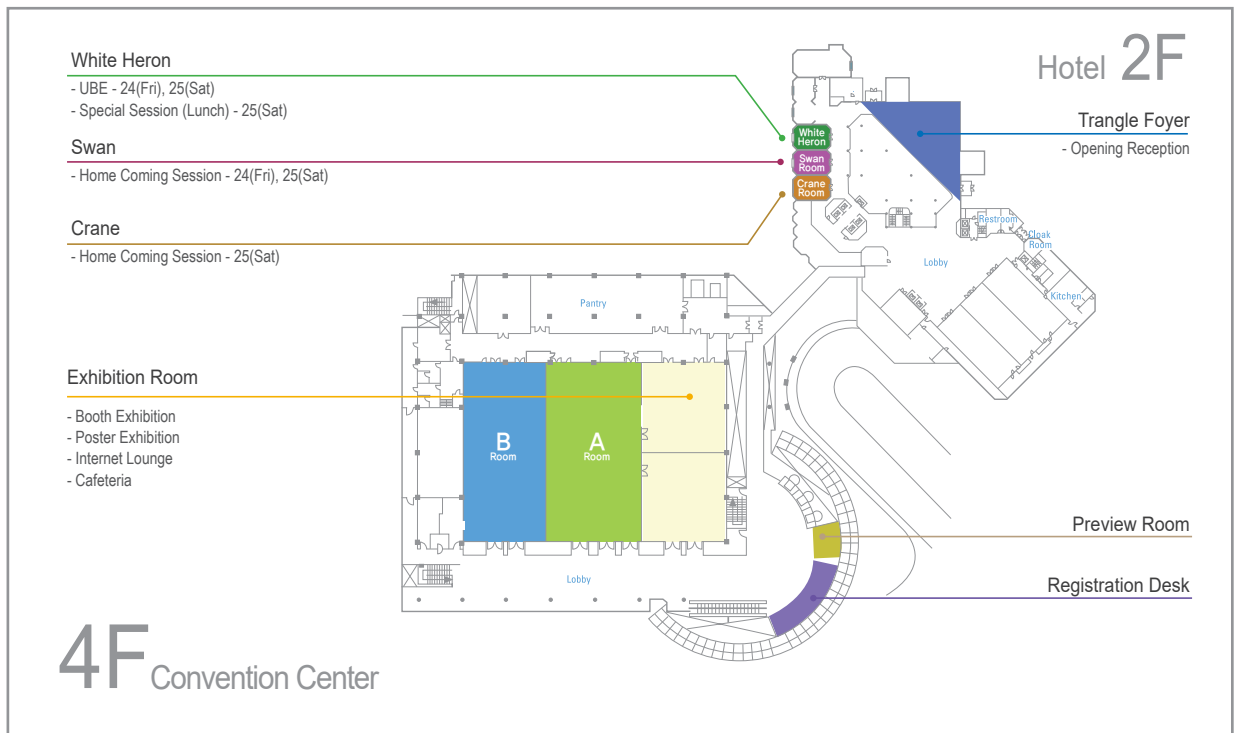
May 26, 2019

Yonsei University College of
Medicine Clinical Medicine Research Center,
1st floor Surgical Anatomy Education Center

Welcome



Floor Plan



Room A

24(Fri)

08:00-08:10	Opening Ceremony
08:10-08:20	Presidential Address
08:20-09:00	Honorary Lecture
09:20-10:50	Plenary Session (MIS Non-Fusion)
11:10-12:10	Collaboration Session (JASMISS & HKMISS)
12:10-13:10	Industrial Workshop (Lunch)
13:10-14:40	Recent Trends of Endoscopic Spine Surgery
14:40-16:10	Free Paper (Award Session)
16:30-17:30	Collaboration Session (MISSAB)

25(Sat)

08:00-09:00	Collaboration Session (TSSULA & Shanghai MISS)
09:20-10:50	Plenary Session (MIS Non-Fusion)
11:10-12:40	NASS Session
12:40-13:40	Special Session (Lunch)
13:40-14:40	Debate (MIS fusion)
14:40-15:10	General Assembly & Commemorative Photo
15:30-16:30	Collaboration Session (THAISMISS & ASEANMISS)
16:30-17:30	Free Paper (ACMISSST)

Room B

24(Fri)

08:00-08:10	Opening Ceremony
08:10-08:20	Presidential Address
08:20-09:00	Honorary Lecture
09:20-10:50	MIS General or Miscellaneous
11:10-12:10	Collaboration Session (TSMISS)
12:10-13:10	Industrial Workshop (Lunch)
13:10-14:40	Recent Trends of Spine Surgery
14:40-16:10	Free Paper (Award Session)
16:30-17:30	Collaboration Session (TSESS)

25(Sat)

08:00-09:00	KOMISS Session (Minimally Invasive Decompression)
09:20-10:50	Plenary Session (MIS Non-Fusion)
11:10-12:40	KOMISS Session
12:40-13:40	Special Session (Lunch)
13:40-14:40	Debate (Endoscopic Spine Surgery)
15:30-16:30	Collaboration Session (WESS & Turkey MISS)
16:30-17:30	Free Paper (KOMISS)

May. 24, 2019

	Room A (Convention 4F)	Room B (Convention 4F)	Room C (Hotel 2F)
07:30-08:00	Registration		
08:00-08:10	Opening Ceremony		
08:10-08:50	Honorary Lecture		
08:50-09:00	Presidential Address (ACMISST & KOMISS President : Gun Choi)		
09:00-09:20	Coffee Break & Transfer		
09:20-10:50	Plenary Session (MIS Non-Fusion)	MIS General or Miscellaneous	
10:50-11:10	Group Photo, Coffee Break, Poster Exhibition		
11:10-12:10	Collaboration Session (JASMISS & HKMISS)	Collaboration Session (TSMISS)	UBE
12:10-13:10	Industrial Workshop (Lunch)	Industrial Workshop (Lunch)	
13:10-14:30	Recent Trends of Endoscopic Spine Surgery	Recent Trends of Spine Surgery	Homecoming Session (Nanoori Hosp.)
14:30-14:40			
14:40-16:10	Free Paper (Award Session)	Free Paper (Award Session)	
16:10-16:30	Coffee Break, Poster Exhibition		
16:30-17:30	Collaboration Session (MISSAB)	Collaboration Session (TSESS)	
17:30-18:00	Transfer		
18:00-20:00	Gala Dinner		

May. 25, 2019

	Room A (Convention 4F)	Room B (Convention 4F)	Room C (Hotel 2F)
08:00-09:00	Collaboration Session (TSSULA & Shanghai MISS)	KOMISS Session (Minimally Invasive Decompression)	
09:00-09:20	Coffee Break & Transfer		
09:20-10:40	Plenary Session (MIS Non-Fusion)		
10:40-10:50			
10:50-11:10	Coffee Break, Poster Exhibition		
11:10-12:40	NASS Session	KOMISS Session	Homecoming Session (Wooridul Hosp.)
12:40-13:30	Special Session (Lunch)	Special Session (Lunch)	Special Session (Lunch)
13:30-13:40			
13:40-14:40	Debate (MIS fusion)	Debate (Endoscopic Spine Surgery)	Homecoming Session (Good Doctor Teun Teun Hosp.)
14:40-15:10	General Assembly & Commemorative Photo		
15:10-15:30	Coffee Break, Poster Exhibition		
15:30-16:30	Collaboration Session (ThaiMISST & ASEANMISST)	Collaboration Session (WESS & Turkey MISS)	UBE
16:30-17:30	Free Paper (ACMISST)	Free Paper (KOMISS)	

May. 26, 2019

Cadaveric Workshop - MIS Fusion - (Yonsei University)	
08:30-17:30	<ol style="list-style-type: none"> 1. Oblique Lumbar Interbody Fusion 2. Unilateral Biportal Endoscopic Lumbar Decompression 3. Transforaminal Endoscopic Lumbar Discectomy 4. Interlaminar Endoscopic Lumbar Discectomy & Decompression 5. Interlaminar Endoscopic Lumbar Discectomy & Decompression 6. Interlaminar Endoscopic Lumbar Discectomy & Decompression

Daily Program

5월 23일 (목)

18:00-20:00 **Opening Reception**

Triangle
Foyer,
Hotel 2F

5월 24일 (금)

07:30-08:00 **Registration**

08:00-08:10 **Opening Ceremony**

08:10-08:50 Honorary Lecture Moderator : **Akira Dezawa** (Japan), **Gun Choi** (Korea)

08:10-08:30 The Role and Future of Endoscopic Surgery for the Treatment of Symptomatic D
Conditions of the Lumbar Spine: Lessons Learn from My 28 Years Experience
Anthony Yeung (USA)

Room A, B

08:30-08:50 Korean Spine Surgeons in Endoscopic Spine Surgery of Global Spine Community
: Their Role in the Present and Expected Contribution in the Future
Chun-Kun Park (Korea)

08:50-09:00 **Presidential Address** ACMISST & KOMISS President : **Gun Choi**

09:00-09:20 **Coffee Break & Transfer**

09:20-10:50 Plenary Session (MIS Non-Fusion)
Moderator : **Wiwat Wajanavisit** (Thailand), **Geun Sung Song** (Korea)

09:20-09:50 Endoscopic Application in the Special Situation Including Spinal Tumor, Spinal Abscess,
Vascular Disease and Others
Chien-Min Chen (Taiwan)

Room A

09:50-10:20 New Surgical Technique for Lumbar Spinal Canal Stenosis with Full Endoscopic
Decompression Using New Scope and High Speed Drill
Akira Dezawa (Japan)

10:20-10:50 MISS for Cervical Degenerative Disease
Gun Choi (Korea)

09:20-10:50 MIS General or Miscellaneous
Moderator : **Mohinder Singh Kaushal** (India), **Seong Hoon Oh** (Korea)

09:20-09:50 Oblique Lumbar Interbody Fusion for Late Sequels of Osteoporotic
Vertebral Compression Fracture
Jwo-Luen Pao (Taiwan)

Room B

09:50-10:20 Graduation of the Learning Curve from Small to Smaller: Evolution of Tubular Retractors
from 18mm to 12mm in Management of Lumbar Disc Herniations
Arvind Kulkarni (India)

10:20-10:50 An Economic Evaluation of the Surgical and Non-Surgical Treatment of Lumbar Disc
Herniation in Korea
Jin-Sung Kim (Korea)

10:50-11:10 **Group Photo & Coffee Break, Poster Exhibition**

5월 24일 (금)		
11:10-12:10	Collaboration Session (JASMISS & HKMISS) Moderator : Verapan Kuansongtham (Thailand), Sung Min Kim (Korea)	
11:10-11:22	Lateral Recess Decompression via Transforaminal Approach : Application of Full Endoscopic Surgery Koichi Sairyō (Japan)	Room A
11:22-11:34	Visualization Treatment of Low Back Pain Using Full Endoscopy and the Latest MRI Akira Dezawa (Japan)	
11:34-11:46	Principle and Pitfalls of Lumbar Minimally Invasive Spinal Surgery Keith Ying Kei Chan (Hong Kong)	
11:46-11:58	MIS in Management of Spinal Metastasis Fashion? Caprice? or Deliberation? Koon Man Sieh (Hong Kong)	
11:58-12:10	Discussion	
11:10-12:10	Collaboration Session (TSMISS) Moderator : Shao-Keh Hsu (Taiwan), Sung Bum Kim (Korea)	
11:10-11:22	A Novel Kyphoplasty Implant to Make Better Vertebral Body High Restoration and Kyphotic Angle Reduction Than Ballon Kyphoplasty Shao-Keh Hsu (Taiwan)	Room B
11:22-11:34	Effect of Indirect Decompression After OLIF Cheng-Hung Lee (Taiwan)	
11:34-11:46	The ROSA Robotic Surgical Assistant in Minimal Invasive Spine Surgery Chien-Min Lin (Taiwan)	
11:46-11:58	A New Strategy in Treatment of Spine Infection by Percutaneous Endoscope Surgery Chien-Chun Chang (Taiwan)	
11:58-12:10	Discussion	
11:10-12:10	UBE Moderator : Jin-Hwa Eum (Korea), Seung-Deok Sun (Korea)	
11:10-11:20	Anatomical Consideration for UBE Heeseok Yang (Korea)	Room C (White Heron / Hotel 2F)
11:20-11:30	HLD Simple to Massive Rupture Jin-Woo An (Korea)	
11:30-11:40	L-Stenosis Central Decompression Man Kyu Park (Korea)	
11:40-11:50	L-Stenosis Foraminal & Far-Out Syndrome Sang-Hyuk Park (Korea)	
11:50-12:00	Post Thoracic Decom by UBE Yong-Sang Kim (Korea)	
12:00-12:10	Post Cervical Decom by UBE Kwansu Song (Korea)	
12:10-13:10	Industrial Workshop (Lunch) Moderator : Koichi Sairyō (Japan)	
12:10-12:40	The Benefits and Economics of Incorporating Endoscopic Spine into Your Practice Anthony Yeung (USA)	Room A
12:40-13:10	What Has Been Wrong with Our Treatment for Chronic Low Back Pain? Jin-Sung Kim (Korea)	
12:10-13:10	Industrial Workshop (Lunch) Moderator : Jun Ho Lee (Korea)	
12:10-12:40	Optimizing Case Selection: What Determines the Difficulty of Full-Endoscopic Spine Surgery Peter Van Daele (Belgium)	Room B
	Moderator : Se-Hoon Kim (Korea)	
12:40-13:10	Efficacy and Safety of Naxozol(Naproxen+ PPI) for Spinal Patient Il Choi (Korea)	

Daily Program

5월 24일 (금)		
13:10-14:40	Recent Trends of Endoscopic Spine Surgery Moderator : Yi Hung Huang (Taiwan), Jae-Won Doh (Korea)	
13:10-13:30	Endoscopic Spine Surgery : Indication, Limitation and Challenge Verapan Kuansongtham (Thailand)	Room A
13:30-13:50	The Current State of Endoscopic Surgery in Japan Fujio Ito (Japan)	
13:50-14:10	Evolution of Endoscopic Spine Surgery Hyeun Sung Kim (Korea)	
14:10-14:30	Trendy or Mandatory? Navigation in Endoscopic Spinal Surgery Erik Traupe (Germany)	
14:30-14:40	Discussion	
13:10-14:40	Recent Trends of Spine Surgery Moderator : Keith Ying Kei Chan (Hong Kong), Chun Kee Chung (Korea)	
13:10-13:30	Recent Trends in Spine Surgery Se-Hoon Kim (Korea)	Room B
13:30-13:50	Coblation Nucleoplasty for Bulging Discs Muhammad Jamil Sabit (Pakistan)	
13:50-14:10	Spinal Endoscopic Options for Almost All Degenerative Diseases Using UBE Sang-Kyu Son (Korea)	
14:10-14:30	Discogenic Low Back Pain in the Japanese Elite Athlete and Full-endoscopic Thermal Annuloplasty Koichi Sairyō (Japan)	
14:30-14:40	Discussion	
14:40-16:10	Free Paper (Award Session) Moderator : Chien-Min Chen (Taiwan), Se-Hoon Kim (Korea)	
14:40-14:55	A Clinical Comparison Between Uniportal Interlaminar Endoscopic Discectomy(U-ILED), Unilateral Biportal Endoscopic Discectomy(UBED) and Open Lumbar Microdiscectomy(OLM) : A Retrospective Case Control Study Shaishav Shah (India)	Room A
14:55-15:10	Factors of Anatomical Structure Related to Surgical Failure of Percutaneous Endoscopic Transforaminal Lumbar Discectomy Chang-Il Ju (Korea)	
15:10-15:25	Contralateral Approach for Minimally Invasive Treatment of Upper Lumbar Intervertebral Disc Herniation: Technical Note, Radiographic Result and Clinical Outcome Naveen Davangere Siddappa (India)	
15:25-15:40	Cost-Effectiveness of Microdiscectomy Versus Endoscopic Discectomy for Lumbar Disc Herniation Kyung Han Cha (Korea)	
15:40-15:55	Comparative Outcomes of Peri-Operative Epidural Steroids After Percutaneous Endoscopic Lumbar Discectomy in Lumbar Disc Herniation: A Randomized Placebo-Controlled Trial Gun Keorochana (Thailand)	
15:55-16:10	Anatomical Feasibility of Right Oblique Approach for L5-S1 Oblique Lumbar Interbody Fusion Myung-Hoon Shin (Korea)	

5월 24일 (금)

14:40-16:10 Free Paper (Award Session)

Moderator : **Akarawit Asawasaksakul** (Thailand), **Dae Hyun Kim** (Korea)

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|-------------|--|---------------|
| 14:40-14:55 | Anatomical Relationship of the Vertebral Artery With the Lateral Recess:
Clinical Importance for Posterior Cervical Foraminotomy
Harshavardhan Raorane (Korea) | Room B |
| 14:55-15:10 | Preliminary Experience of Anterior Cervical Discectomy and Fusion Using
3D-Printed Porous Titanium Cage in Terms of Subsidence and Fusion Rate
Jungwoo Hur (Korea) | |
| 15:10-15:25 | Comparative Analysis of Three Types of Minimally Invasive Decompressive Surgery for
Lumbar Central Stenosis: Biportal Endoscopy, Uniportal Endoscopy, and Microsurgery
Dong Hwa Heo (Korea) | |
| 15:25-15:40 | Clinical Comparison of MEL, UBE, PSLD and PFEL in Central Lumbar Spinal Canal
Stenosis
Fujio Ito (Japan) | |
| 15:40-15:55 | Contained Midline Decompression and Percutaneous Screw Fixation-Hybrid Technique.
A New Paradigm in Minimally Invasive Spine Surgery
Mihir Bapat (India) | |
| 15:55-16:10 | Surgical Techniques and Clinical and Radiological Outcomes of Endoscopic-assisted
Lateral Lumbar Interbody Fusion (ELLIF)
Yoshinori Kyoh (Japan) | |
| 16:10-16:30 | Coffee Break, Poster Exhibition | |

16:30-17:30 Collaboration Session (MISSAB)

Moderator : **Monu Singh** (India), **Jin-Sung Kim** (Korea)

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|-------------|---|---------------|
| 16:30-16:42 | Full Endoscopic Interlaminar Decompression of Lumbar Canal Stenosis
Pramod Lokhande (India) | Room A |
| 16:42-16:54 | Comparative Analysis of Tubular Retractors VS Endospine in Decompression of Lateral
Canal Stenosis Lumbar Spine
Monu Singh (India) | |
| 16:54-17:06 | Full Endoscopic Posterior Cervical Discectomy and Foraminotomy
Pramod Lokhande (India) | |
| 17:06-17:18 | Transforaminal Endoscopic (TFE) Ventral Decompression in Calcified Lumbar Disc
Stenosis : Preliminary Study of 43 Patients
Ajay Krishnan (India) | |
| 17:18-17:30 | Discussion | |

Daily Program

5월 24일 (금)		
16:30-17:30	Collaboration Session (TSESS) Moderator : Jwo-Luen Pao (Taiwan), Yong Eun Cho (Korea)	
16:30-16:40	Is Posterior Full Endoscopic Decompression Feasible for Cervical Stenosis with Radiculopathy or Myelopathy Yi Hung Huang (Taiwan)	Room B
16:40-16:50	Comparing Clinical Outcomes of Transforaminal and Interlaminar Endoscopic Discectomy for Recurrent Lumbar Disc Herniation Keng-Chang Liu (Taiwan)	
16:50-17:00	Move from MED to UBE, Experience Sharing from the First 100 Cases Jwo-Luen Pao (Taiwan)	
17:00-17:10	Full Endoscopic Transforaminal Decompression(FETD) for Adjacent Disease Presented as L5S1 Foramen Stenosis with L5 Radiculopathy : One Year Follow Up Chang-Chen Yang (Taiwan)	
17:10-17:20	Complication of FELD Hung-Kang Wu (Taiwan)	
17:20-17:30	Discussion	
17:30-18:00	Transfer	
18:00-20:00	Gala Dinner	Emerald A, B (Convention 3F)
5월 25일 (토)		
08:00-09:00	Collaboration Session (TSSULA & Shanghai MISS) Moderator : Malcolm Pestonji (India), Sung Woo Roh (Korea)	
08:00-08:13	Transiliac Transforaminal Endoscopic Surgery for L5/S1 Disc Malcolm Pestonji (India)	Room A
08:13-08:26	Morphometry of Intervertebral Foramen and Safe Zone of Lumbosacral Spine in Indian Cadavers Ravindranath Kommi (India)	
08:26-08:39	Percutaneous Endoscopic Cervical Discectomy under Local Anaesthesia - Anterior Approach Tips and Tricks Shiraz Munshi (India)	
08:39-08:52	Surgical Outcomes of Transforaminal Percutaneous Endoscopic Decompression for Lumbar Lateral Canal Stenosis With Assistance of the Preoperative Simulation Software Xin Gu (China)	
08:52-09:00	Discussion	
08:00-09:00	KOMISS Session (Minimally Invasive Decompression) Moderator : Gun Choi (Korea), Sang Gu Lee (Korea)	
08:00-08:12	Comparative Analysis BTW Three Different Lumbar Decompression Technique. Chul Woo Lee (Korea)	Room B
08:12-08:24	Paraspinal Approach for Foraminal Pathology Han Ga Wi Nam (Korea)	
08:24-08:36	Contralateral Approach Hyeun Sung Kim (Korea)	
08:36-08:48	Endoscopic Posterior Approach for Cervical Pathology Jin Hwa Eom (Korea)	
08:48-09:00	Discussion	
09:00-09:20	Coffee Break & Transfer	

5월 25일 (토)			
09:20-10:50	Plenary Session (MIS Non-Fusion)	Moderator : Jeffrey Wang (USA), Gun Choi (Korea)	
09:20-09:50	Enhanced Recovery After Surgery (ERAS) in Spine	Michael Wang (USA)	Room A, B
09:50-10:20	MIS and Endoscopic Surgery – Increasing Usage and Prominence into Mainstream Spine Surgery and Spine Societies	Jeffrey Wang (USA)	
10:20-10:50	Preliminary Exploration of Endoscopy Assistant Lumbar Interbody Fusion Combine with Percutaneous Pedicle Screw Fixation for Degenerative Scoliosis	Xifeng Zhang (China)	
10:50-11:10	Coffee Break, Poster Exhibition		
11:10-12:40	NASS Session	Moderator : Jeffrey Wang (USA), Chun-Kun Park (Korea)	
11:10-11:30	Navigation for MIS and Spine Surgery	Jeffrey Wang (USA)	Room A
11:30-11:50	OLIF for Treatment of Adult Spinal Deformity	Patrick Hsieh (USA)	
11:50-12:10	Contemporary Advances in Minimally Invasive Spine Surgery in the United States	John Liu (USA)	
12:10-12:30	MIS Cervical Spine Surgery	Jean-Jacques Abitbol (USA)	
12:30-12:40	Discussion		
11:10-12:40	KOMISS Session	Moderator : Kyeong-Sik Ryu (Korea), Jong Tae Park (Korea)	
11:10-11:20	Bi-Portal Endoscopic Lumbar Interbody Fusion	Sang-Kyu Son (Korea)	Room B
11:20-11:30	Uniportal Endoscopic Lumbar Interbody Fusion	Myung Soo Yun (Korea)	
11:30-11:40	The Learning Curve for Transforaminal Percutaneous Endoscopic Lumbar Discectomy : A Systematic Review	Yong Ahn (Korea)	
11:40-11:50	Discussion		
11:50-12:00	Endoscopic Assisted OLIF	Jin-Sung Kim (Korea)	
12:00-12:10	Variable Use of Percutaneous Screw on Spinal Surgery	Sung Bum Kim (Korea)	
12:10-12:20	USE of BMP in MISS Fusion	Jeong-Yoon Park (Korea)	
12:20-12:30	Biportal Endoscopic Lumbar Interbody Fusion with Enhanced Recovery After Surgery	Dong Hwa Heo (Korea)	
12:30-12:40	Discussion		
12:40-13:40	Special Session (Lunch)	Moderator : Dong Hwa Heo (Korea)	
12:40-13:10	The Next-Generation Endoscopic Spine Surgery Will Be Done with an Endoscopic Drill	Hyeun Sung Kim (Korea)	Room A
12:40-13:40	Special Session (Lunch)	Moderator : Yong Ahn (Korea)	
12:40-12:55	Transforaminal vs Interlaminar Approach, Pros and Cons	Junseok Hur (Korea)	Room B
12:55-13:10	The Chicken or the Egg? Is Golf Bad for Your Back?	Paul J. Houle (USA)	
		Moderator : Choon Keun Park (Korea)	
13:10-13:40	Minimally Invasive Lumbar Interbody Fusion: Ante-Psoas Approach	Jin-Sung Kim (Korea)	
12:40-13:40	Special Session (Lunch)	Moderator : Seung Hwan Yoon (Korea)	
12:40-12:50	Trend in NSAIDs : COX-2I & Polmacoxib	Se Hoon Kim (Korea)	Room C (White Heron / Hotel 2F)
12:50-13:10	MIS Adult Spinal Deformity Correction Using Low-Dose rhBMP-2'	Junseok Bae (Korea)	
13:10-13:20	Q&A		

Daily Program

5월 25일 (토)		
13:40-14:40	Debate (MIS fusion) Moderator : Arvind Kulkarni (India), Seung Myung Lee (Korea) Panel : IL Choi, Dong Wook Son, Xifeng Zhang, Patrick Hsieh, Wiwat Wajanavisit	Room A
13:40-13:44	Case 1 : Fusion or Not Heeseok Yang (Korea)	
13:44-13:52	Pros Sung Bum Kim (Korea)	
13:52-14:00	Cons Arvind Kulkarni (India)	
14:00-14:10	Discussion	
14:10-14:14	Case 3 : Anterior or Posterior Sukhyung Kang (Korea)	
14:14-14:22	Anterior Keith Ying Kei Chan (Hong Kong)	
14:22-14:30	Posterior Jung-Woo Hur (Korea)	
14:30-14:40	Discussion	
13:40-14:40	Debate (Endoscopic Spine Surgery) Moderator : Koichi Sairyo (Japan), Choon Keun Park (Korea) Panel : Jin-Sung Kim, Koichi Sairyo, Chien-Min Chen, Akarawit Asawasaksakul	Room B
13:40-13:44	Case 2 : Uniportal or Biportal Su Gi Jun (Korea)	
13:44-13:52	Uniportal Chul Woo Lee (Korea)	
13:52-14:00	Biportal Dong Hwa Heo (Korea)	
14:00-14:10	Discussion	
14:10-14:14	Case 4 : Transforaminal or Interlaminar Han Ga Wi Nam (Korea)	
14:14-14:22	Transforaminal Chang-Il Ju (Korea)	
14:22-14:30	Interlaminar Fujio Ito (Japan)	
14:30-14:40	Discussion	
14:40-15:10	General Assembly & Commemorative Photo	
15:10-15:30	Coffee Break, Poster Exhibition	
15:30-16:30	Collaboration Session (THAISMISSST & ASEANMISSST) Moderator : Hyeun Sung Kim (Korea), Gun Keorochana (Thailand)	Room A
15:30-15:37	Pathophysiology, Clinical Presentation and Imaging Relationship Nantawat Uttamo (Thailand)	
15:37-15:44	Trans-Sacral Approach (SELD) in DDD: Indication and Outcome Elmer Jose Arevalo Meceda (Philippines)	
15:44-15:51	Percutaneous Fluoroscopic- Guided Manual Discectomy and Annuloplasty (DiscFx) Gun Keorochana (Thailand)	
15:51-15:58	Full Endoscopic Discectomy and Annuloplasty Akarawit Asawasaksakul (Thailand)	
15:58-16:05	Role of Stem Cell Therapy Aloysius Bambang Darwono (Indonesia)	
16:05-16:10	Discussion	
16:10-16:30	Case Discussion Moderator : Wiwat Wajanavisit (Thailand), Aloysius Bambang Darwono (Indonesia)	
16:10-16:20	Case 1 Chaisiri Chaichankul (Thailand)	
16:20-16:30	Case 2 Kiattisak Wongvorachart (Thailand)	
	Panelists: Asean and Asia Wiwat Wajanavisit (Thailand), Gun Keorochana (Thailand), Elmer Jose Arevalo Meceda (Philippines), Chul Woo Lee (Korea), Chang Il Ju (Korea)	

5월 25일 (토)		
15:30-16:30	Collaboration Session (WESS & Turkey MISS) Moderator : Tarik Yazar (Turkey), Eun-Sang Kim (Korea)	
15:30-15:40	Endoscopic Assisted MIS Fusion by Innovative Arthrospine System Mohinder Singh Kaushal (India)	Room B
15:40-15:50	Endospine - Endoscopic Anterior Cervical Discectomy & Cord Decompression a Motion Segment Preserving Technique Shrinivas Mahadeo Rohidas (India)	
15:50-16:00	Endoscopic Excision of Intradural Extramedullary SOL with Endospine - Destandau's Technique Shrinivas Mahadeo Rohidas (India)	
16:00-16:10	Borderline Cases between Invasive Surgery and MISS Tarik Yazar (Turkey)	
16:10-16:20	Safety UBE at Revision Cases, Surgical Tips Hayati Ayyün (Turkey)	
16:20-16:30	Discussion	
15:30-16:30	UBE Moderator : Sang-Kyu Son (Korea), Seung-Woo Seo (Korea)	
15:30-15:40	Posterior Lumbar Fusion in Listhesis by UBE Jin-Ho Hwang (Korea)	Room C (White Heron / Hotel 2F)
15:40-15:50	Revisional Surgery by UBE Su Gi Jun (Korea)	
15:50-16:00	Contralateral Approach by UBE Dong Hwa Heo (Korea)	
16:00-16:10	Strategical Various Approaches for DRG Decompression by UBE Ji-Soo Ha (Korea)	
16:10-16:20	Tactical Approach by UBE Nam Lee (Korea)	
16:20-16:30	Complication Treatment by UBE Dae-Jung Choi (Korea)	
16:30-17:30	Free Paper (ACMISST) Moderator : Gun Keorochana (Thailand), Jong Tae Kim (Korea)	
16:30-16:38	Endoscopic Discectomy for Hard or Calcified Lumbar Disc Herniation Sang-Ha Shin (Korea)	Room A
16:38-16:46	Does Unilateral Biportal Endoscopic (UBE) Laminectomy Spare More Ipsilateral Facet Than Open Microscopic Laminectomy for Effective Decompression of Lumbar Spinal Stenosis(LSS)? Jongchul Chung (Korea)	
16:46-16:54	New Endoscope Assisted Spine Surgery System Development Using 3D Printing Techniques : 3D Printing Technique Application for Spine Surgery System Development Heeseok Yang (Korea)	
16:54-17:02	Percutaneous Stenotomy Lumbar Discectomy (PSLD) and Percutaneous Stenotomy Cervical Decompression (PSCD), a New Concept in Miss Lumbar and Cervical Degeneration Aloysius Bambang Darwono (Indonesia)	
17:02-17:10	Enhanced Recovery Program for Elderly Patients Undergoing Spinal Microsurgery Xin Gu (China)	
17:10-17:18	Percutaneous Endoscopic Transforaminal Lumbar Interbody Fusion for the Treatment of Lumbar Spinal Stenosis: Preliminary Report of Seven Cases with 12-Month Follow-Up Peng Yin (China)	
17:18-17:26	The New Paradigm : Regenerative Potential of Secretome Mesenchymal Derived Stem Cells in Spinal Cord Injury Treatment Case Report Aloysius Bambang Darwono (Indonesia)	

Daily Program

5월 25일 (토)

16:30-17:30 Free Paper (KOMISS)

Moderator : **Elmer Jose Arevalo Meceda** (Philippines), **Cheul Woong Park** (Korea)

16:30-16:38 Clinical Results for SELD in Both Lumbar Disc Herniation and Failed Back Surgery Syndrome
Cigdem Mumcu (Turkey)

16:38-16:46 A Clinical and Radiological Comparison Between BI-Portal Endoscopic Decompression Versus Microscopic Decompression for Lumbar Canal Stenosis : A Retrospective Study
Shaishav Shah (India)

16:46-16:54 Contralateral Ligament Flavum Sparing Lateral Recess Decompression and Foraminotomy by Unilateral Biportal
Seung Deok Sun (Korea)

16:54-17:02 Vertebral Body Rotation in Patient of Lumbar Degenerative Scoliosis; Surgical Implication for Oblique Lumbar Interbody Fusion (OLIF)
Myung-Hoon Shin (Korea)

17:02-17:10 Transumbilical Anterior Lumbar Interbody Fusion for Degenerative Lumbar Disease
Junseok Bae (Korea)

17:10-17:18 Unilateral Biportal Endoscopic Lumbar Interbody Fusion (ULIF) : Technical Tips and Preliminary Result
Jae-Hyun Park (Korea)

17:18-17:26 Unilateral Biportal Endoscopic Lumbar Interbody Fusion (ULIF) Versus Conventional Posterior Lumbar Interbody Fusion (PLIF): Clinical and Radiological Outcomes of One-Year Follow-up
Man-Kyu Park (Korea)

Room B

5월 26일 (일) Cadaveric Workshop - MIS Fusion -

08:30-17:30 Oblique Lumbar Interbody Fusion **Jeong-Yoon Park & Jung-Woo Hur** (Korea)

Unilateral Biportal Endoscopic Lumbar Decompression
Dong-Hwa Heo & Heeseok Yang (Korea)

Transforaminal Endoscopic Lumbar Discectomy **Jin Sung Kim & Kyung-Chul Choi** (Korea)

Interlaminar Endoscopic Lumbar Discectomy & Decompression
Hyeun Sung Kim & Chul-Woo Lee (Korea)

Interlaminar Endoscopic Lumbar Discectomy & Decompression
Erik Traupe (Germany) & **Junseok Bae** (Korea)

Interlaminar Endoscopic Lumbar Discectomy & Decompression
Hyung Suk Kim & Han Ga Wi Nam (Korea)

Yonsei University

5월 24일 (금)

14:30-16:30 **Nanoori Hosp.**

Welcoming

14:30-15:30 Free Paper Presentation

14:30-14:40 Systematic Review on Minimal Invasive Spine Surgery for Lumbar Spinal Stenosis
Boon Seng Liew (Malaysia)

14:40-14:50 Outcome of Surgical Decompression in Simple Degenerative Lumbar Canal Stenosis : an Evaluation of Preoperative Neurological Deficient Patients and determination of Outcome Predictor
Byapak Paudel (Nepal)

14:50-15:20 Special Lecture - Evolution of Spinal Endoscopic Surgery **Hyeun Sung Kim** (Korea)

15:20-15:30 Full Endoscopic Posterior Cervical Decompression by Outside-In Technique for Cervical Spondylotic Myelopathy **Harshavardhan Raorane** (India)

15:30-15:50 Discussion

15:50-16:20 Panel Discussion
Hyeun Sung Kim (Korea), **Byapak Paudel** (Nepal), **Chulwoo Lee** (Korea)
Dong Hwa Heo (Korea)

16:20-16:30 Closing Remark & Photo

Room C
(Swan /
Hotel 2F)

5월 25일 (토)

10:40-12:40 **Wooridul Hosp.** Moderator : **Han Joong Keum** (Korea)

10:40-10:45 Welcome Messages **Junseok Bae** (Korea)

Wooridul Alumni Lecture

10:45-10:55 Endoscopic Training : Wooridul and Gil University Experience **Yong Ahn** (Korea)

10:55-11:05 Way to Come to the Mainstream : Wooridul and Endoscopic History **Jin-Sung Kim** (Korea)

11:05-11:15 Discussion

History of Wooridul MISS Course

11:15-11:20 Welcome and History of Wooridul MISS Course **Sang-Soo Eun** (Korea)

Wooridul and International Collaboration

11:20-11:30 The Role of Wooridul Workshop in Endoscopic Training **Wolfgang Ries** (Germany)

11:30-11:40 My Experience at Wooridul **Erik Traupe** (Germany)

11:40-11:50 My Experience at Wooridul **Paul Houle** (USA)

11:50-12:00 Discussion

Recent Updates at Wooridul

12:00-12:05 Midfix® : Midline Decompression and Fusion **Sang-Ha Shin** (Korea)

12:05-12:10 Development of Thoracic Endoscopy **Junseok Bae** (Korea)

12:10-12:20 Discussion

12:20-12:30 Closing Remarks **Junseok Bae** (Korea)

12:30-12:40 **Commemorative Photograph**

Room C
(Swan /
Hotel 2F)

Homecoming Session Program

5월 25일 (토)

13:30-15:30 Good Doctor Teun Teun Hosp.		
13:30-13:35	Welcome Message	Chun-Kun Park (Korea)
13:35-13:45	History of PSLD	Chun-Kun Park (Korea)
13:45-13:55	Overview of PSCD	Hyung Suk Kim (Korea)
13:55-14:05	Overview of PSLD	Soo-Beom kim (Korea)
14:05-14:15	My Journey to Becoming a Neurosurgeon-Minimally Invasive Spine Surgeon in the Philippines	EJAM (Philippines)
14:15-14:25	PSLD in Hong Kong	Wong Sze Hung (Hong Kong)
14:25-14:35	Discussion	
14:35-14:45	My Experience at Good Doctor Teun Teun Hospital	Cidem Mumcu (Turkey)
14:45-14:55	My PSCD cases in Indonesia	Aloysius Bambang Darwono (Indonesia)
14:55-15:05	Pitfalls and Tips in PslD Paramedian Approach for Foraminal/Extraforaminal Pathologies	Han Ga Wi Nam (Korea)
15:05-15:15	Complications of PSLD	Won-Chol Lee (Korea)
15:15-15:30	Discussion	

Room C
(Crane /
Hotel 2F)



Nanoori Hospital



Wooridul Hospital

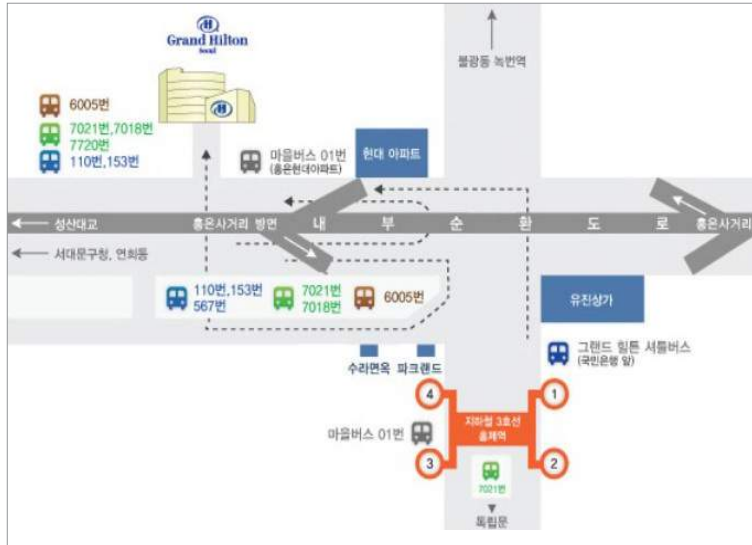


Good Doctor Teun Teun Hospital

Symposium

May 24–25, 2019

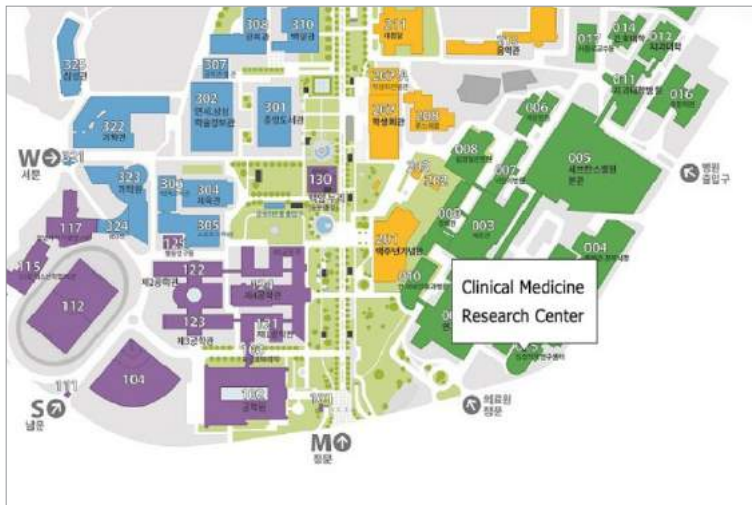
Grand Hilton Hotel, Seoul, Korea



Cadaver Workshop

May 26, 2019

Yonsei University College of Medicine Clinical Medicine Research Center, 1st floor Surgical Anatomy Education Center



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