

## PROGRAM August 31(Fri.), 2018

### ROOM A

**8:00 Registration Open**

**9:00 Opening Ceremony**

Fujio Ito, President of the ISESS

**9:10-10:10 Leaders Lecture L1**

Chair: Dr. Fujio Ito

**Leaders Lecture L1-1** New Surgical Technique of Total an Block Floating Flavectomy for PEL (Percutaneous Endoscopic Laminectomy)

9:10-9:16 Akira Dezawa (Dezawa Akira PED Center, Tokyo, Japan)

**Leaders Lecture L1-2** Challenges in Clinical Translation of Cell Therapy for Intervertebral Disc Disease

9:16-9:33 Daisuke Sakai (Dept. of Orthopaedic Surgery, Tokai University School of Medicine, Kanagawa, Japan)

**Leaders Lecture L1-3** Technical Notes and Benefits of Anterior Percutaneous Endoscopic Lumbar Intervertebral Fusion " KyoLIF "

9:34-9:51 Yoshinori Kyoh (KYOHO Orthopaedics & Neurosurgery Clinic, Hyogo, Japan)

**Leaders Lecture L1-4** How to Choose Between Interlaminar and Transforaminal Approach?

9:52-10:09 Kuansongtham Verapan (Bumrungrad International Hospital, Bangkok, Thailand)

**10:15-11:45 Live Surgery 1**

Chair: Dr. Motohide Shibayama, Dr. Mikinobu Takeuchi

**Live Surgery 1-A** Trans-Sacral Epiduroscopic Laser Decompression (SELD)

10:15-11:45 Zenya Ito (Aichi Spine Hospital, Aichi, Japan)

**Live Surgery 1-B** Percutaneous Endoscopic Laminoplasty (PEL) for Lumbar Canal Stenosis

10:15-11:45 Sumito Shimizu (Omigawa General Hospital Spine and Spinal Cord Center, Chiba, Japan)

**Live Surgery 1-C** Percutaneous Endoscopic Posterior Decompression for Lumbar Lateral Recess Stenosis

10:15-11:45 Akira Dezawa (Dezawa Akira PED Center, Tokyo, Japan)

**12:00-13:00 Luncheon seminar 1**

Chair: Dr. Rong Limin

**Luncheon seminar 1-1** Therapeutic Feasibility of Full Endoscopic Decompression in one- to three-level Lumbar Canal Stenosis Via a Single Skin Port Using a New System, Percutaneous Stenoscopic Lumbar Decompression

12:00-12:30 Kang Taek Lim (Good Doctor Teun Teun Spine Hospital, Anyang, Korea)

**Luncheon seminar 1-2** Can We Replace a Spinal Microscopic Surgery to Endoscopic Surgery? UBE is Possible To Do It  
12:30-13:00 Son, Sang kyu (Parkweonwook Hospital, Busan, Korea)

**13:00-13:20 Coffee Break**

**13:20-14:50 Lecture A1**

Chair: Dr. Daisuke Sakai, Dr. Kuansongtham Verapan

**Lecture A1-1** Treatment of Lumbar Spondylolisthesis with Percutaneous Endoscopic Spine Surgery  
13:20-13:32 Kaixuan Liu (Atlantic Spine Center, USA)

**Lecture A1-2** Procedures to Avoid C5 Palsy After Cervical Laminoplasty as Gleaned from Rare Cases: Report from an Institution with Low Incidence  
13:33-13:45 Takashi Yamazaki (Japanese Red Cross Musashino Hospital, Tokyo, Japan)

**Lecture A1-3** Transforaminal Endoscopic Discectomy with Foraminoplasty  
13:46-13:58 Oguz Okan Karaeminogullari (Bayindir Healthcare Group: Bayindir Hospital, Department of Orthopedics and Traumatology, Turkey)

**Lecture A1-4** Stage Endoscopic Decompression in Lumbar Stenosis with Spondylolisthesis or Scoliosis  
13:59-14:11 Pornpavit Sriphirom (Arthroplasty Unit, Orthopedics Department, Rajavithi Hospital, Rangsit University, Bangkok, Thailand)

**Lecture A1-5** Resolution of Symptom After Target Oriented Decompression Using Unilateral Biportal Endoscopic Technique  
14:12-14:24 Seung Deok Sun (Sun's orthopedics, Korea)

**Lecture A1-6** Anatomy of the Spine: Ligaments and Vessels  
14:25-14:37 Ayhan Comert (Department of Anatomy, Ankara University, School of Medicine, Ankara, Turkey)

**Lecture A1-7** The Strategy of Percutaneous Endoscopic Surgery to Manage Lumbar High Grade Migrated Disc Herniation  
14:38-14:50 Shao Keh Hsu (Minimal Invasive Spinal Center, Tungs' Taichung MetroHarbor Hospital, Taichung, Taiwan)

**14:50-15:05 Coffee Break**

**15:05-16:35 Lecture A2**

Chair: Dr. Choon Keun Park, Dr. Aloysius Bambang Darwono

**Lecture A2-1** Latest Techniques and Technologies in Endoscope Assisted Spine Fusion Surgery (PLIF/TLIF & XLIF)  
15:05-15:17 Yuichi Takano (Iwai Orthopaedic Medical Hospital, Tokyo, Japan)

**Lecture A2-2** Oblique Lateral Interbody Fusion for Degenerative Lumbar Diseases  
15:18-15:30 Jwo Luen Pao (Assosiated Professor and Chief of Spine Surgery, Orthopedic Department Far-Eastern Memorial Hospital, New Taipei, Taiwan)

**Lecture A2-3** 3D Endoscope for Endoscopic Spine Surgery with Endospine-Destandau's Technique  
15:31-15:43 Shrinivas Rohidas (Neurosurgery, Spine Center, The Leon Wiltse Memorial Hospital Kolhapur, Maharashtra State India)

**Lecture A2-4** A Prospective Randomized Comparative Study of Minimally Invasive Spinal Decompression Surgery Using Arthroscopy (Biportal Technique) VS. Microscopy  
15:44-15:56 Si Young Park (Korea University, College of Medicine Orthopaedic Surgery, Seoul, Korea)

**Lecture A2-5** Comparison the Results of Percutaneous Endoscopic Lumbar Decompression Versus MISS + Dynamic Stabilization Devices in Lumbar Disc Disorder and Stenosis  
15:57-16:09 Shing-Sheng Wu (Professor of Department of Orthopaedic Surgery  
Shin-Kong Wu Ho-Su Memorial Hospital, Taipei, Taiwan, ROC)

**Lecture A2-6** Complications and Technical Difficulties in Percutaneous Endoscopic Discectomy and Decompression Surgery  
16:10-16:22 Kuniyoshi Tsuchiya (Department of Orthopaedic Surgery, JCHO Kyushu Hospital, Fukuoka, Japan)

**Lecture A2-7** Percutaneous Endoscopic Thoracic Decompression (PETD) – a Technical Note  
16:23-16:35 Gun Choi (Pohang Wooridul Hospital, Pohang, Korea)

**16:35-16:50 Coffee Break**

**16:50-18:10 Lecture A3**

Chair: Dr. Gun Choi, Dr. Shing-Sheng Wu

**Lecture A3-1** Evidence of Endoscopic Spine Surgery – Experiences and Possibilities  
16:50-17:02 Stefan Hellinger (Orthopaedic Surgeon in Privat Practice and As Consultant Isar Klinik, Germany)

**Lecture A3-2** The Lower Trapezius Muscle Causes Low Back Pain Through Myogelotic Sensitization  
17:03-17:15 Shoichi Kokubun (Professor Emeritus Tohoku University Research Center for Spine and Spinal Cord Disorders, NHO Sendai Nishitaga Hospital, Miyagi, Japan)

**Lecture A3-3** Percutaneous Endoscopic Contralateral Sublaminar Approach for Lumbar Degenerative Disease. Clinical Experiences of Uniportal and Biportal Endoscopic Approaches  
17:16-17:28 Choon Keun Park (The President of Medical Corporation Thomas Medical Foundation Wiltse Memorial Hospital Doctor of Medicine, Neurosurgery Medical Specialist, Korea)

**Lecture A3-4** Unsatisfactory Outcome Analysis in Patients Receiving Percutaneous Endoscopic Lumbar Decompression with Interlaminar Approach (PEID)  
17:29-17:41 Yi Hung Huang (Chia Yi Christian Hospital, Chia Nan University Pharmacy and Science, Taiwan)

**Lecture A3-5** Lateral Decubitus Position Widening the Kambin Triangle for Transforaminal of L5-S1  
17:42-17:54 Aloysius Bambang Darwono (Head of Orthopaedic Section of Pluit Hospital, Jl. Raya Pluit Selatan, Jakarta Utara, Indonesia)

**Lecture A3-6** Percutaneous Transforaminal Endoscopic Discectomy Versus Microendoscopic Discectomy for Lumbar Disc Herniation: Two-year Results of an Ongoing Randomized Controlled Trial  
17:55-18:07 Rong Limin (Dept. Spine Surgery the Third Affiliated Hospital of Sun Yat-sen University, Guangzhou, China)

**18:30-20:30 Banquet Dinner Party**

**ROOM B**

**13:20-14:30 Lecture B1**

Chair: Dr. Stefan Hellinger, Dr. Huang Yi Hang

- Lecture B1-1** 13:20-13:30 Comparison of Surgical Invasiveness Between Microdiscectomy and Three Different Endoscopic Discectomy Techniques for Lumbar Disc Herniation  
Kyung-Chul Choi (Department of Neurosurgery, The Leon Wiltse Memorial Hospital, Anyang, Korea)
- Lecture B1-2** 13:30-13:40 Comparison of Early and Late Percutaneous Endoscopic Lumbar Discectomy for Lumbar Disc Herniation  
Qingchu LI (Section II of Spinal Surgery (Minimally Invasive Spinal Surgery) at the Third Affiliated Hospital of Southern Medical University, China)
- Lecture B1-3** 13:40-13:50 Clinical and Radiological Results of Percutaneous Stenoscopic Lumbar Decompression in Mongolia  
Nurbyek Baban (Grand Med Hospital, Ulaanbaatar, Mongolia)
- Lecture B1-4** 13:50-14:00 Percutaneous Transforaminal Endoscopic Decompression for The Treatment of Lumbar Spinal Stenosis: Analysis of Clinical Outcomes and Prognostic Factors  
Feng Feng (The Third Affiliated Hospital of Sun Yat-sen University, Guangzhou, China)
- Lecture B1-5** 14:00-14:10 Patients with Spinal Stenosis and Back Pain Treated with Combined Percutaneous Endoscopic Lumbar Decompression and Radiofrequency Ablation  
Ting Chun Huang (National Taiwan University Chu-Tung Branch, Taiwan)
- Lecture B1-6** 14:10-14:20 Clinical Experience of SELD in Lumbar Disc Diseases  
Cigdem Mumcu (Sultanbeyli State Hospital, Istanbul, Turkey)
- Lecture B1-7** 14:20-14:30 Percutaneous Endoscopic Discectomy for Thoracic Diseases  
Lei Chu (Orthopedics Department, the Second Affiliated Hospital of Chongqing Medical University, China)

**14:30-15:00 Coffee Break**

**15:00-16:10 Lecture B2**

Chair: Dr. Takashi Yamazaki, Dr. Kaixuan Liu

- Lecture B2-1** 15:00-15:10 Full Endoscopic Posterior Decompression of Multilevel Cervical Foraminal Stenosis by Single Skin Incision  
Han Ga Wi Nam (Good Doctor Teun Teun Hospital, Anyang, Korea)
- Lecture B2-2** 15:10-15:20 Comparison of Percutaneous Endoscopic Cervical Discectomy Versus Posterior Cervical Foraminotomy for the Treatment of Cervical Spondylotic Radiculopathy  
Peigen Xie (The Third Affiliated Hospital of Sun Yat-sen University, Guangzhou, China)
- Lecture B2-3** 15:20-15:30 Percutaneous Endoscopic Cervical Discectomy and Osteophytes Removal Via an Anterior Transforaminal Approach for Radiculopathy: Technical Notes and Review  
Santosh Kumar Bashyal (Devdaha Medical College Research Institute Kathmandu University Affiliated Hospital, Orthopedic Department, Rupandehi, Nepal)
- Lecture B2-4** 15:30-15:40 Minimize the Errors and Learning Curve of the Mini-Robot Assisted Spine Surgery  
Yen-Mou Lu (Kaohsiung Medical University, Taiwan)
- Lecture B2-5** 15:40-15:50 A Novel Targeted Foraminoplasty Device Improves the Efficacy and Safety of Foraminoplasty in Percutaneous Endoscopic Lumbar Discectomy  
Shengxiang Ao (The Second Affiliated Xinqiao Hospital of Army Medical University, China)

**Lecture B2-6** Lumbar Angiolipoma Removal Via Percutaneous Endoscopic Interlaminar Approach  
15:50-16:00 Marcio Cunha (Trauma Center, Brazil)

**Lecture B2-7** Can the Biportal Endoscopic Surgery Achieve Enough Canal Decompression for Degenerative Lumbar Stenosis? Prospective Case Control Study  
16:00-16:10 Hyun Jin Hong (Wiltse Memorial Hospital, Korea)

**16:10-16:35 Coffee Break**

**16:35-17:25 Lecture B3**

Chair: Dr. Yuichi Takano, Dr. Jwo Luen Pao

**Lecture B3-1** Comparison of Three Minimally Invasive Spine Surgery Methods for Revision Surgery for Recurrent Herniation After Percutaneous Endoscopic Lumbar Discectomy  
16:35-16:45 Yu Tang (Department of Orthopedics, Xinqiao Hospital, Third Military Medical, China)

**Lecture B3-2** Experience of Delta Scope to Manage Thoracic Vertebral Ossification of Ligamentum Flavum  
16:45-16:55 Bo-Lai CHEN (Division of Spinal Minimally Invasive Center, Guangdong Provincial Hospital of Chinese Medicine & The Second Clinical College of Guangzhou University of Chinese Medicine, Guangzhou, China)

**Lecture B3-3** Anterior Transcorporeal Approach to Percutaneous Endoscopic Cervical Discectomy for Cervical Intervertebral Disc Herniation: A Case Series with 2 Year Follow Up  
16:55-17:05 Junsong Yang (Department of Spine Surgery, Honghui Hospital, Xi'an Jiaotong University, China)

**Lecture B3-4** The Journey Towards Minimally Invasive Spine Surgery in a General Orthopaedic Department  
17:05-17:15 Sheung Tung Ho (Department of Orthopaedics & Traumatology Caritas Medical Centre, Hong Kong)

**Lecture B3-5** Introduction of UBE and It's Surgical Technique  
17:15-17:25 Sangmog Lee (Korea)

**PROGRAM**  
**September 1(Sat.), 2018**

**ROOM A**

**9:00-10:20 Lecture A4**

Chair: Dr. Arvind Bhawe, Dr. Keng-Chang Liu

**Lecture A4-1** Thoracoscopic Access to the Ventral Thoracic Spine

9:00-9:12 Jun Ho Lee (Department of Neurosurgery, Kyung Hee University Medical Centre, Seoul, Korea)

**Lecture A4-2** Easy Workshop Model for Monolateral Biportal Decompression and Case Examples

9:13-9:25 Tarik Yazar (University of Ankara, Faculty of Medicine Orthopaedic and Traumatology, Ankara, Turkey)

**Lecture A4-3** Navigation Guide Endoscopic Surgery

9:26-9:38 Chien-Min Chen (Director of Minimally Invasive Spine Center, Changhua Christian Hospital Assistant Professor, School of Medicine, Kaohsiung Medical University, China)

**Lecture A4-4** Percutaneous Endoscopic Surgeries for Herniation of Calcified Thoracic Disc

9:39-9:51 Xifeng Zhang (Orthopedic Department General Hospital of PLA, China)

**Lecture A4-5** Return to Work After Endoscopic Discectomy for Lumbar Disc Herniation

9:52-10:04 Masatsune Yamagata (Spine and Low Back Pain Center, Department of Orthopaedic Surgery, Chiba Rosai Hospital, Chiba, Japan)

**Lecture A4-6** Strategy for Surgical Approach of Percutaneous Endoscopic Interlaminar Discectomy for Lumbar Disc Herniation Based on 3D CT/MRI Fusion Imaging

10:05-10:17 Jiro Hirayama (Seikei-kai Chiba Medical Center, Chiba, Japan)

**10:20-10:45 Coffee Break**

**10:45-11:35 Leaders Lecture L2**

Chair: Dr. Masatsune Yamagata

**Leaders** The Endoscopy-Assisted Fusion in the Spine: The Current Status and Future

**Lecture L2-1** Jin-Sung Kim (Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Korea)

10:45-10:57

**Leaders** Improvement of Techniques and Instruments in Endoscopic Lumbar Surgery

**Lecture L2-2** Fujio Ito (President of Aichi Spine Group, Japan/  
Aichi Spine Hospital, Aichi Spine Institute, Tokyo Spine Clinic, Japan/  
Guest Professor of The First Affiliated Hospital of Zhengzhou University, Japan)

10:58-11:15

**Leaders** Percutaneous Full Endoscopic Bilateral Lumbar Decompression of Spinal Stenosis

**Lecture L2-3** Through Uniportal-Contralateral Approach: Techniques and Preliminary Results

11:15-11:32 Hyeun Sung Kim (Neurosurgery Specialist / Director of the Nanoori Hospital, Korea)

**11:40-12:40 Luncheon seminar 2**

Chair: Dr. Shoichi Kokubun

**Luncheon seminar 2-1** Prognosis of Osteoporotic Vertebral Fracture and Its Treatment Strategy  
11:40-12:10 Hiroaki Nakamura (Department of Orthopaedic Surgery, Osaka City University Graduate School of Medicine, Osaka, Japan)

**Luncheon seminar 2-2** Percutaneous Endoscopic Transforaminal Spine Surgery for the Lumbar Spinal Canal Stenosis: Decompression (PELF/PEVF) and Fusion (PETLIF/PEDLIF)  
12:10-12:40 Koichi Sairyō (Department of Orthopedics, Tokushima University, Tokushima, Japan)

**12:40-13:00 Coffee Break**

**13:00-14:45 Live Surgery 2**

Chair: Dr. Mikinobu Takeuchi, Dr. Zenya Ito

**Live Surgery 2-A** Microendoscopic Lumbar Laminoplasty Using a Special Designed Rectangle Retractor  
13:00-14:45 Shu Nakamura (Aichi Spine Hospital, Aichi, Japan)

**Live Surgery 2-B** PELD-Transforaminal Approach  
13:00-14:45 Yasushi Miura (Tokyo Spine Clinic, Tokyo, Japan)

**Live Surgery 2-C** Microendoscopic Cervical Foraminotomy with 10mm Tubular Retractor  
13:00-14:45 Motohide Shibayama (Aichi Spine Hospital, Aichi, Japan)

**15:00-16:20 Lecture A5**

Chair: Dr. Jun Ho Lee, Dr. Si Young Park

**Lecture A5-1** Ultrasound-MR Image Fusion with Real-Time Navigation Assisted Percutaneous Transforaminal Endoscopic Discectomy  
15:00-15:12 Rong Limin (Dept. Spine Surgery the Third Affiliated Hospital of Sun Yat-sen University, Guangzhou, China)

**Lecture A5-2** Complications in Transforaminal /Interlaminar Endoscopic Lumbar Discectomy  
15:13-15:25 Arvind Bhawe (Spine Surgeon, MISS/Endoscopy, Deenanath Mangeshkar Hospital, Pune, Maharashtra, India)

**Lecture A5-3** Grading System for Minimum Invasive Decompression of Lumbar Canal Stenosis  
15:26-15:38 Hisaaki Uchikado (Uchikado Neuro-Spine Clinic, Fukuoka, Japan)

**Lecture A5-4** Percutaneous Endoscopic Transforaminal Decompression for Degenerative Lumbar Lateral Recess Stenosis: Comparison of Clinical Outcomes of Patients with Versus Without Scoliosis  
15:39-15:51 Keng-Chang Liu (Department of Orthopedics, Dalin Tzu Chi General Hospital, Chia-Yi, Taiwan)

**Lecture A5-5** Cerebrospinal Fluid Leak as a Complication of Endoscope-Assisted Anterior Screw Fixation of Type II Odontoid Fracture: A Case Report  
15:52-16:04 Yasutaka Takagi (Department of Orthopaedic Surgery, Spine Center, Japan)

**Lecture A5-6** The Clinical Results of Percutaneous Endoscopic Lumbar Discectomy as Revision  
16:05-16:17 Surgery for Recurrent Lumbar Disc Herniation and Adjacent Segment Disease  
Zhonghai Li (Department of Orthopaedics, First Affiliated Hospital of Dalian Medical  
University, Dalian, China)

**16:30-16:40 Closing Ceremony**  
Fujio Ito, President of the The ISESS



## ROOM B

### 9:00-10:10 Lecture B4

Chair: Dr. Yasushi Miura, Dr. Kyoh Yoshinori

- Lecture B4-1** 9:00-9:10 Surgical Technique of Endoscopic Transforaminal Decompression and Fusion with a Threaded Expandable Interbody Fusion Cage and Report of 24 Cases  
Kai-Uwe Lewandrowski (University of Arizona in Tucson, the Universidade de Estado do Rio de Janeiro, Gaffree Gingle, Brazil)
- Lecture B4-2** 9:10-9:20 The Clinical Outcomes and Postoperative Fusion Rate Between TLIF with CBT and TLIF with Conventional Pedicle Screw Placement  
Xiaoping Zhang (Department of Orthopedics, Tangdu Hospital, Forth Military Medical University, Xi'an, China)
- Lecture B4-3** 9:20-9:30 Mini-Open Anterior Stand-Alone Lumbar Interbody Fusion for Recurrent Lumbar Disc Herniation  
Dadi Jin (The Third Affiliated Hospital of Southern Medical University, Guangzhou, China)
- Lecture B4-4** 9:30-9:40 Factors Related to Anatomical Structures for Successful Percutaneous Transforaminal Endoscopic Lumbar Discectomy  
Chang-II Ju (Department of Neurosurgery, College of Medicine, Chosun University, Gwangju Metropolitan City, Korea)
- Lecture B4-5** 9:40-9:50 Diagnosis and Endoscopic Treatment for Lumbar Toxic Annular Syndrome  
Jung Hao Hsieh (Director, Neurosurgery Department, Yuan's General Hospital Director, MIS Spine Center, Yuan's General Hospital, Taiwan)
- Lecture B4-6** 9:50-10:00 Comparison of MED and PELD in the Treatment of Adolescent Lumbar Disc Herniation: A 8-Year Retrospective Follow-Up  
Yiyan Qiu (The Third Affiliated Hospital of Southern Medical University, China)
- Lecture B4-7** 10:00-10:10 Comparison About Safety and Efficiency of Routine FPT Technique and Full-See Foraminoplasty in the PLED for Axillary LDH  
Xiaobing Jiang (Department of Spinal Surgery, The First Affiliated Hospital of Guangzhou University of Chinese Medicine, China)

### 15:00-16:10 Lecture B5

Chair: Dr. Hiroaki Nakamura, Dr. Koichi Sairyo

- Lecture B5-1** 15:00-15:10 Anterior Cervical Microscope Under Reduced Pressure Precise Clinical Efficacy of the Interbody Fusion  
Xiaoming Bao (Department of Orthopedics, Tangdu Hospital, Air Force Military Medical University, China)
- Lecture B5-2** 15:10-15:20 Remnant Fragments After Percutaneous Transforaminal Endoscopic Surgery: How it Happened and Which is Preferred Revision?  
Jianwen Dong (Associate Chief Surgeon Vice-Director, Spine Surgery Department of The Third Affiliated Hospital of Sun Yat-sen University, China)
- Lecture B5-3** 15:20-15:30 The L4/5 Lamina Gap Difference Between Flexion (kneeling) Position and Prone Position and Its Significance for Percutaneous Endoscopic Interlaminar Discectomy (PEID)  
Yang Qun (First Affiliated Hospital of Dalian Medical University, China)

- Lecture B5-4** Minimally Invasive Full-Endoscopic Posterior Cervical Foraminotomy Assisted by O-Arm-Based Navigation  
15:30-15:40 Junlong Wu (Department of Orthopaedics, Xinqiao Hospital, Army Medical University, China)
- Lecture B5-5** The Clinical Effect of Oblique Lumbar Interbody Fusion (OLIF) in the Treatment of Lumbar Degenerative Disease  
15:40-15:50 Bo Liao (Department of Orthopedics, Tangdu Hospital, Air Force Military Medical University, China)
- Lecture B5-6** A Preliminary Report on the Operation of the Posterior Cervical Spine Via Quadrant Retractor  
15:50-16:00 Weidong Guo (Department of Orthopedics, Tangdu Hospital, Air Force Military Medical University, China)
- Lecture B5-7** Surgical Treatment for Lumbar Lateral Recess Stenosis with the Percutaneous Endoscopic Technique: Interlaminar Approach Versus Transforaminal Approach  
16:00-16:10 Yawei Li (Department of Spine Surgery, the Second Xiangya Hospital of Central, China)