Preliminary Program
Friday, July 28th, 2017
Room A

8:50 -9:00 a.m.
Opening Remarks: Hiroaki Nakamura (Japan)
Room A

9:00 -10:00 a.m.
General Session: Lumbar Spine
Room A
Moderators: Jae-Yoon Chung (Korea), Kuo-Yuan Huang (Taiwan)

9:00-9:05 a.m.
Less Is Better and Diagnosis before Surgery. --- Alternative Treatment of Lumbar Radiculopathy with Transforaminal Epidural Steroid Injections
Jui-Yang Hsieh, Yung-Chi Kao, Po-Quang Chen
Department of medical affairs, National Taiwan University Hospital Jinshan branch, Taiwan

9:05-9:10 a.m.
Different Clinical Results between Triamcinolone and Methylprednisolone ESI : Randomized Double Blind Prospective Study
Tassanawipas Warat, Pheeraphan Srissok, Sompob Poopitaya
Department of Orthopaedics, Army Hospital, Thailand

9:10-9:15 a.m.
A Prospective Comparative Study of Clinical Outcomes for Lumbar Spine Surgery in Elderly Patients Older than 80 years old Evaluated with JOABPEQ and Patient Satisfaction
Hiroyuki Yasuda¹, Shumpei Hama¹, Sadahiko Konishi¹, Akinobu Suzuki², Hiroaki Nakamura²
¹Osaka General Hospital of West Japan Railway Company, Osaka, Japan
²Osaka City University Graduate School of Medicine, Japan
9:15-9:20 a.m.
Degenerative Spondylolisthesis (Ds); Is it Always Unstable? - A New Scoring System To Implement Value Based Spine Care
Kulkarni Arvind Gopalrao, Shumayou Dutta
Mumbai Spine Scoliosis & Disc Replacement Centre, Bombay Hospital Mumbai, India

9:20-9:30 a.m.
Discussion

General Session: Lumbar Spine
Room A
Moderators: Jae-Yoon Chung (Korea), Zheng Zhao Min (China)

9:30-9:35 a.m.
Correlations between the SF-36, the Oswestry-Disability Index and Rolland-Morris Disability Questionnaire in Patients Undergoing Lumbar Decompression According to Types of Spine Origin Pain
Sangbong Ko, Jaebum Kwon, Seungbum Chae, Wonkee Choi
Daegu Catholic University Medical Center, Korea

9:35-9:40 a.m.
Prevalence of High-intensity Zones in the Lumbar Spine According to Age and Their Correlation with Other Degenerative Findings on Magnetic Resonance Imaging
Makoto Takeuchi, Akihiro Nagamachi, Keisuke Adachi, Kazumasa Inoue, Yasuaki Tamaki, Yasuyuki Omichi, Koichi Sairyo
Department of Orthopedics, Tokushima University, Japan

9:40-9:45 a.m.
Correlation between Sedimentation Sign, Dural Sac Cross-sectional Area and Clinical Symptoms of Degenerative Lumbar Spinal Stenosis
Sangbong Ko, Jaebum Kwon, Seungbum Chae, Wonkee Choi
Daegu Catholic University Medical Center, Korea

9:45-9:50 a.m.
Correlation between Cervical and Lumbar Spinal Canal Diameter: Analysis of CT scan in 256 Korean Population
Kyung-Chung Kang, Kim Ki-Tack, Lee Jung-Hee, Kim Yong-Chan
9:50-10:00 a.m.
Discussion

10:00 -11:00 a.m.

General Session: Cervical Spine
Room A
Moderators: Tsung-Jen Huang (Taiwan), Chong Suh Lee (Korea)

10:00-10:05 a.m.
Minimally Invasive Posterior Microscopic Foraminotomy can Improve Radicular Pain and the Alignment of Cervical Spine after Surgery
Yoshikazu Yanagisawa¹, Hiroshi Nomura¹, Toshio Doi¹, Junichi Arima¹
¹Hiroshima Red Cross Hospital & Atomic-bomb Survivors Hospital, Japan

10:05-10:10 a.m.
Clinical Results of Posterior Cervical Microendoscopic Surgery for Cervical Spondylotic Amyotrophy
Yukihiro Nakagawa, Hiroshi Yamada, Hiroshi Hashizume, Yasutsugu Yukawa, Akihito Minamide, Hiroshi Iwasaki, Shunji Tsutsui, Masanari Takami, Ryohei Kagotani,
Department of Orthopaedic Surgery, Wakayama Medical University, Japan

10:10-10:15 a.m.
Surgical Results of Cervical Micro Endoscopic Laminectomy for Cervical Myelopathy
Atsushi Tagami, Makoto Osakii,
Department of Orthopedic Surgery, Nagasaki University, Japan

10:15-10:20 a.m.
Endoscopic Decompression Surgery via a Transforaminal Approach under Local Anesthesia for Lateral Recess Stenosis Due to Lumbar Degenerative Disease
Seiji Yamaya¹,³, Toshinori Sakai¹, Fumitake Tezuka¹, Yuhei Yamasaki¹, Kazuta Yamashita¹, Yoichiro Takata¹, Kosaku Higashino¹, Takashi Chikawa², Akihiro Nagamachi¹, Koichi Sairyo¹
¹Department of Orthopedics, Institute of Biomedical Sciences, Tokushima University Graduate School, Japan
²Department of Orthopaedic Surgery, Tokushima Municipal Hospital
³Department of Orthopaedic Surgery, Tohoku University School of Medicine
10:30-10:35 a.m.
Full-endoscopic Cervical Foraminotomy is a Promising Surgery for Lower-level Cervical Spondylotic Radiculopathy
Koichiro Ono, Kazuo Ohmori, Takeshi Hori,
Center for Spinal Surgery, Nippon Koukan Hospital, Japan

10:35-10:40 a.m.
Percutaneous Endoscopic Cervical Decompression - Anterior, Transcorporeal and Posterior Approach
Fujio Ito¹, Zenya Ito¹, Motohide Shibayama¹, Shu Nakamura¹, Minoru Yamada¹, Naoto Hoshi¹, Kenzo Shimizu¹, Yasushi Miura²,
¹Aichi Spine Hospital, Japan
²Tokyo Spine Institute

10:40-10:45 a.m.
The Natural Course of Prevertebral Soft-tissue Swelling after Anterior Cervical Spine Surgery; How long will it last?
Kim Seok Woo¹, Chulyoung Jang², Myung Ho Yang², Seonjong Lee¹,², Je Hyun Yoo², Yoon Hae Kwak², Ji Hyo Hwang³,
¹Spine Center, Korea
²Department of Orthopaedic Surgery Hallym University Sacred Heart Hospital
³Kangnam Sacred Heart Hospital College of Medicine, Hallym University

10:45-10:50 a.m.
Reoperation Rate of Microscope-Assisted and Non-Microscope Anterior Cervical Discectomy and Fusion (ACDF) for Treatment of Degenerative Cervical Myeloradiculopathy
Bunmaprasert Torphong, Pakdeenit Boonserm,
Chiang Mai University, Thailand

10:50-11:00 a.m.
11:00-11:07 a.m.
Efficacy of E.coli-derived rhBMP-2 in Posterolateral Lumbar Fusion: an open, active-controlled, randomized, multicenter trial
**Lee Jae Hyup**¹, Cho Jae Hwan², Yeom Jin Sup¹, Chang Bong-Soon¹, Yang Jae Jun³,
Koo Ki Hyoung³, Hwang Chang Ju², Kim Ho-Joong¹, Lee Choon-Ki¹, Kim Hyoungmin¹,
Suk Kyung-Soo⁵
¹Department of Orthopaedic Surgery, College of Medicine, Seoul National University, Korea
²Department of Orthopedic Surgery, Asan Medical Center, University of Ulsan College of Medicine
³Spine Center and Department of Orthopaedic Surgery, Seoul National University College of Medicine, Seoul National University Bundang Hospital
⁴Department of Orthopedic Surgery, Dongguk University Ilsan Hospital, Dongguk University College of Medicine
⁵Department of Orthopaedic Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine

11:07-11:14 a.m.
Comparing Clinical Results between Minimally Invasive Endoscopic Surgery and Traditional Anterior Open Surgery for Infectious Spondylodiscitis: A Cohort Study of 84 Patients
**Chen Hsien-Te**, Chen Yen-Jen, Chang Chien-Chun, Ho Mao-Wang, Hsu Horng-Chaung,
China medical university hospital, Taiwan, Taiwan

11:14-11:21 a.m.
The Incidence of Additional Spine Surgery after Microscopic Decompression Surgery for Lumbar Canal Stenosis: An Average Nine-year follow-up Using a Surgical Database Study from A Single Institute
**Yasushi Fujiwara**, Izumi Bunichiro, Ryo Ota, Yutaka Kadonishi, Takahiro Harada, kazuto Nakao,
Tomokazu Yoshida, Makoto Nishimori, Hideki Manabe
Hiroshima City Asa Hospital, Japan

11:21-11:28 a.m.
Good Clinical Outcomes in Nonunion Cases after Facet Fusion with A Percutaneous Pedicle Screw
System for Degenerative Lumbar Spondylolisthesis

**Tomohiro Miyashita**¹, Hiromi Ataka²,³, Kei Kato¹,², Hiromitsu Takaoka²,³, Takaaki Tanno²,³
¹Spine Center, Matsudo City Hospital, Japan
²Society for Minimally Invasive spine Stabilization
³Spine Center, Matsudo Orthopaedic Hospital

11:28-11:35 a.m.
Clinical Application of PSLD (Percutaneous Stenoscopic Lumbar Decompression) in Degenerative Lumbar Spine Diseases

**Lim KangTaek**,  
Good Doctor Teun Teun Hospital, Korea, Korea

11:35-11:50 a.m.
Discussion

12:00 -13:00

Luncheon seminar: Sohei Ebara (Japan)

Room A

Moderators: Akira Dezawa (Japan)

13:20 -13:50

PASMISS seminar: Zenya Ito (Japan)

Room A

Moderators: Masatsune Yamagata (Japan)

14:00 -15:00

General Session: Micro/MED

Room A

Moderators: Heui Jeon Park (Korea), Hiroshi Yamada (Japan)

14:00-14:05

Stand-alone Lateral Recess Decompression without Discectomy in Patients Presenting with Neurogenic Claudication and MRI evidence of Large Disc Protrusions: A five year study &acute;

**Kulkarni Arvind Gopalrao**, Ravish Patel,
Mumbai Spine Scoliosis & Disc Replacement Centre, Bombay Hospital Mumbai, India
14:05-14:10
Prevalence and Impact on Outcome of Reoperation Following Minimally Invasive Decompression Alone for Degenerative Lumbar Disease
Minori Kato¹, Takashi Namikawa¹, Akira Matsumura¹, Yudai Sawada¹, Masyoshi Iwamae¹, Hiroaki Nakamura²
¹Department of Orthopaedic Surgery, Osaka City General Hospital, Japan
²Department of Orthopaedic Surgery, Osaka City University Graduate School of Medicine

14:10-14:15
Comparative Outcome Between Microscopic Decompression Without Posterior Stabilization and Open Decompression With Posterior Stabilization for Lumbar Disc Herniation: A Case Series Study
I Glna Artha Wiguna, I Ketut Suyasa, I GN Yudhi Setiawan, Trimanto Wibowo, Tjok Agung Vidyaputra,
Orthopaedic Department Medical Faculty Udayana University Denpasar Bali, Indonesia

14:15-14:20
Microscopic posterior decompression for pars defect in treating radiculopathy in the elderly with lumbar lytic spondylolisthesis: technical tips and long-term surgical outcomes
Yasushi Fujiwara, Bunichiro Izumi, Ryo Ota, Yutaka Kadonishi, Takahiro Harada, Kazuto Nakao, Tomokazu Yoshida, Makoto Nishimori, Hideki Manabe,
Hiroshima City Asa Hospital, Japan

14:20-14:30
Discussion

General Session: Micro/MED
Room A
Moderators: Heui Jeon Park (Korea), Kim Eung Ha (Korea)

14:30-14:35
Surgical Experiences in Lumbar Disc Herniation by Minimal Invasive Surgery in Sanglah General Hospital: A Case Series
I Ketut Suyasa, I GLNA Artha Wiguna, I GN Yudhi Setiawan, Trimanto Wibowo, Tjok Agung Vidyaputra
Orthopaedic Department Medical Faculty Udayana University Denpasar Bali, Indonesia

14:35-14:40
Advanced MED Surgery with Lens-cleaning System and 10 mm-TR  
**Motohide Shibayama**, Fujio Ito, Zenya Ito, Yasushi Miura, Shu Nakamura, Minoru Yamada, Naoto Hoshi  
Aichi Spine Hospital, Japan

14:40-14:45  
Micro-endoscopic Decompression Surgery via Midline Approach for Lumbar Spinal Canal Stenosis - Clinical Results and Radiological Assessments after more than 10 years of follow-up -  
**Masateru Nagae**\(^1\), Yasuo Mikami\(^2\), Tomonori Itsuji\(^1\), Hitoshi Tonomura\(^1\), Ryota Takatori\(^1\), Munehiro Sakata\(^1\), Tomohisa Harada\(^3\), Toshikazu Kubo\(^1\),  
\(^1\)Department of Orthopaedics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Japan  
\(^2\)Department of Rehabilitation Medicine, Graduate School of Medical Science, Kyoto Prefectural University of Medicine  
\(^3\)Department of Spine Surgery, Rakuwakai Marutamachi Hospital

14:45-14:50  
Learning Curve of Micro-endoscopic Discectomy in An-Nan Hospital: Results of First 25 Cases  
**Cheng Cheng-Hsin**, Ruey-Mo Lin  
AN-Nan hospital, spinal care center, Taiwan

14:50-15:00  
**Discussion**

15:00 -16:00

**General Session: LLIF1**  
Room A  
**Moderators: Ruey-Mo Lin (Taiwan), Bambang Tiksnadi (Indonesia)**

15:00-15:05  
The Fate and Clinical Impact of Early Cage Subsidence after OLIF Surgery  
**Park Se-Jun**, Lee, Chong-Suh, Chung, Sung-Soo, Lee, Kyung-Jun, Park, Chan-Duk, Kim, Hyung-Ju,  
Samsung Medical Center, Korea

15:05-15:10  
A New Surgical Technique to Avoid Iatrogenic End Plate Injury in XLIF Procedure
Takahiro Maeda¹, Hiroshi Yamada¹, Yasutsugu Yukawa¹, Hiroshi Hashizume¹, Akihito Minamide¹, Yukihiro Nakagawa¹, Hiroshi Iwasaki¹, Shunji Tsutsui¹, Masanari Takami¹, Munehito Yoshida², ¹Wakayama Medical University, Japan ²Sumiya Orthopedic Hospital

15:10-15:15
Radiographic Evaluation of Intervertebral Cage Subsidence in Lateral Retroperitoneal Transpsoas Lumbar Interbody Fusion
Shunji Tsutsui¹, Hiroshi Yamada¹, Hiroshi Hashizume¹, Yasutsugu Yukawa¹, Akihito Minamide¹, Yukihiro Nakagawa¹, Hiroshi Iwasaki¹, Masanari Takami¹, Ryohei Kagotani¹, Shinichi Nakao², Munehito Yoshida²
¹Department of Orthopedic Surgery, Wakayama Medical University, Japan ²Sumiya Orthopedic Hospital

15:15-15:20
Early and Midterm Complications in Oblique Lumbar Interbody Fusion Surgery
Rahim Reza, Choi John,
Spine Ortho Clinic Melbourne, Australia

15:20-15:30
Discussion

General Session: LLIF1
Room A
Moderators: Ruey-Mo Lin (Taiwan), Dae Moo Shim (Korea)

15:30-15:35
Fusion Rates in Oblique Lumbar Interbody Fusion
Rahim Reza, Choi John,
Spine Ortho Clinic Melbourne, Australia

15:35-15:40
Fusion Rate and Its Predictive Factors Following Lateral Lumbar Interbody Fusion in Multilevel Instrumented Spinal Surgery
Yu Moriguchi¹, Takashi Kaito², Hiroyasu Fujiwara¹, Takenori Oda¹, Hiroyuki Tsukazaki¹, ¹National Hospital Organization Osaka Minami Medical Center, Japan ²Osaka University
15:40-15:45
Comparison of Surgical Results between Minimally Invasive LLIF and Open PLIF in the Treatment of Spondylolisthesis

Jae Chul Lee¹, Hae-Dong Jang¹, Sung-Woo Choi¹, Eung-Ha Kim², Jong-Beom Park³, Hak-soo Kim², Byung-Joon Shin¹,

¹Department of Orthopedic Surgery, Soonchunhyang University Seoul Hospital, Seoul, Korea, Korea
²Department of Orthopedic Surgery, Soonchunhyang University Bucheon Hospital, Bucheon, Korea
³Department of Orthopedic Surgery, Uijeongbu St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea

15:45-15:50
Efficacy of Vertebral Rotational Reduction by Using Lateral Lumbar Interbody Fusion for Cases with Adult Spinal Deformity

Masanari Takami¹, Munehito Yoshida¹², Hiroshi Yamada¹, Hiroshi Hashizume¹, Yasutsgu Yukawa¹, Akihito Minamide¹, Hiroshi Iwasaki¹, Shunji Tsutsui¹, Shin-ichi Nakao²,

¹Dept. of Orthop. Surg., Wakayama Medical Univ., Japan
²Dept. of Orthop. Surg., Sumiya Orthopaedic Surgery Hospital

15:50-16:00
Discussion

16:00-16:45
General Session: MISt
Room A
Moderators: Koji Sato (Japan), Takanori Saito (Japan)

16:00-16:05
Preliminary Report of Stand-Alone Transforaminal Lumbar Interbody Fusion with Cage

Cheng Cheng-Hsin, Ruey-Mo Lin, Yen-Po Fang,
AN-Nan hospital, spinal care center, Taiwan

16:05-16:10
Minimally Invasive Transforaminal Lumbar Interbody Fusion (TLIF): Clinical Application and Learning Curve

Hong Jae-Young, Seung-Woo Suh, Si-Young Park, Jae-Hyuk Yang,
Korea University Medical Center, Korea
16:10-16:15
2 Level Lumbar Degenerative Disease that was Treated with MIS-TLIF for Minimum 2-years follow up
Yoo Hyun Seung¹, Chang, Se Ang, Park Young bo,
¹Daegu Fatima Hospital, Korea
²Daegu Fatima Hospital
³Daegu Fatima Hospital

16:15-16:20
Radiation reduction of minimally invasive transforaminal lumbar interbody fusion with localization system in overweight patients
Fan Guoxin, Shisheng He,
Shanghai Tenth People’s Hospital, Tongji University School of Medicine, China

16:20-16:30
Discussion

16:30-16:35
Early Result of Microendoscopy-assisted Minimal Invasive Transforaminal Lumbar Interbody Fusion for Lumbar Degenerative Disease
Huang Yu-Han,
Yumin Medical Corporation Yumin Hospital, Taiwan

16:35-16:40
Minimally Invasive Transforaminal Lumbar Interbody Fusion (MIS-TLIF) in the Use of Intraoperative Computed Tomography (iCT) with Navigation System
Li Yen-Yao, Cheng, Chin-Chang, Lee, Ching-Yu, Lee, Chien-Ying,
Department of Orthopaedic Surgery, Chiayi Chang-Gung Memorial Hospital, Taiwan

16:40-16:45
Discussion

17:00 -18:00
Evening seminar: Tomoaki Toyone (Japan)
Room A
Moderators: Munehito Yoshida (Japan)
18:00-18:04
Survival Analysis based on New Fracture at Adjacent Vertebrae after Vertebroplasty or Kyphoplasty
Kim Jung-Hoon¹, Seo Jeong-Gook², Kim Dong-Hyok¹,
¹Department of Orthopedic Surgery, Inje University Ilsan Paik Hospital, Korea
²Department of Orthopedic Surgery, Inje University Seoul Paik Hospital

18:04-18:08
Clinical and Radiological Outcome of Muscle-preserving Interlaminar Decompression for Lumbar Spinal Canal Stenosis in Patients with or without Kissing Spine
Hitoshi Tonomura¹, Yoichiro Hatta², Masaru Nonomura², Hironori Koike¹, Ryota Takatori¹,
Masateru Nagae¹, Yasuo Mikami³, Toshikazu Kubo¹,
¹Department of Orthopaedics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Japan
²Department of Orthopaedics, Japanese Red Cross Kyoto Daini Hospital
³Department of Rehabilitation Medicine, Graduate School of Medical Science, Kyoto Prefectural University of Medicine

18:08-18:12
Minimally Invasive Percutaneous Correction for Degenerative Lumbar Scoliosis more than Cobb Angle 30 Degrees with Lateral Interbody Fusion and Percutaneous Pedicle Screw System
Tomohisa Harada,
Dept. of Orthop. Surg., Rakuwakai Marutamachi Hospital, Japan

18:12-18:16
Radiological and Clinical Long-term Results of Heterotopic Ossification following Lumbar Total Disc Replacement
Lee Chong-Suh, Park, Se-Jun, Chung, Sung-Soo, Lee, Kyung-Jun, Park, Chan-Duk, Kim, Hyung-Ju,
Samsung Medical Center, Korea

18:16-18:20
Radiological Status of Paravertebral Muscles after Biportal Endoscopic Spinal Surgery (BESS)

Lee Ho-Jin1, Jae-sung Ahn1, Dae-jung Choi2, Ki-young Lee1,
1Department of Orthopedic Surgery, Chungnam National University School of Medicine, Daejeon, Korea., Korea
2Spine center, Barun Hospital, Jin-ju, Korea.

18:20-18:24
Association between Droopy Shoulder and Degenerative Changes in the Cervical Spine
Kazushi Takayama, Atsushi Masuda, Teruo Kita, Hideki Sakanaka, Yoshiki Yamano,
Dept. of Orthopaedic Surgery, Seikeikai Hospital, Japan

18:24-18:28
Does Additional Uncinate Resection Increase Pseudarthrosis Following Anterior Cervical Discectomy and Fusion?
Baik Jong-Min1, Jeon Deuk Soo1, Paik Je Won1, Lee Dong-Ho2,
1Department of Orthopedic Surgery, Gil medical center, Gachon university college of medicine, Korea
2Department of Orthopedic Surgery, Asan medical center, Ulsan university college of medicine

18:28-18:40
Discussion
15:00-15:05
Radiculopathy Due to Retropulsed Bony Fragments After Kyphoplasty - Its Clinical Manifestation and Treatment
**Wu Chung-Ting**¹, Po-Quang Chen²,
¹ Department of orthopedic surgery, Cathay General Hospital, Taiwan
² Department of orthopedic surgery, National Taiwan University hospital

15:05-15:10
Stabilizing the Unstable Osteoporotic Vertebral Fracture is Critical to Preventing the Further Progression of Spinal Canal Stenosis due to Fractured Vertebrae
**Toshihiro Imamura**¹, Yukihide Iwamoto²,
¹ The Center for Research and Treatment of Bone and Joint Disease for Workers, Dept. of Orthopaedic Surgery, Kyushu Rosai Hospital, Japan
² Kyushu Rosai Hospital

15:10-15:15
Comparison of Percutaneous Vertebroplasty with and without Kyphoplasty by SpineJack for the Treatment of Elderly Vertebral Compression or Burst Fractures
**Fang Yen-Po**¹, Lin Ruey-Mo¹, Hsu Wei-Chien¹, Fang Jing-Jing²,
¹ Department of Orthopedics, An Nan Hospital- China Medical University, Tainan, Taiwan, Taiwan
² Department of Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan

15:15-15:20
Clinical Outcomes of Percutaneous Kyphoplasty Alone for Thoracolumbar Burst Fractures in Elderly Patients
**Hsueh Ju-Feng**, Jwo-Luen Pao, Chih-Hung, Chang
Far-Eastern Memorial Hospital, Taiwan

15:20-15:30
Discussion
15:30-15:35
Risk Factors for Newly Developed Vertebral Compression Fractures Following Treatment for Osteoporotic Vertebral Compression Fractures
Kim Dong-Yun¹, Kang/Chang-Nam¹, Kim/Chul-Woong²,
¹Department of Orthopaedic Surgery, Hanyang University College of Medicine, Korea
²Medi-yin hospital, Paju-si, Gyeonggi-do, Republic of Korea

15:35-15:40
Prophylactic Augmentation Effectively Decrease the Fracture Risk of Adjacent Vertebrae after Vertebroplasty or Kyphoplasty
Pao Jwo-Luen,
Far Eastern Memorial Hospital, Taiwan

15:40-15:45
Adequate Cement Volume for over 40% Collapsed Thoracolumbar Osteoporotic Vertebral Compression Fractures with Percutaneous Ballon Kyphoplasty
Byun Jae Chul, Kim Young Woo, Chung Hyun Min, Kim Hyung Jin,
Department of Orthopaedic Surgery, Dongtan Sacred Heart Hospital, Hallym University College of Medicine, Korea

15:45-15:50
Radiological Results of Double Balloon Inflation Technique during Kyphoplasty
Oh Sung Kyun¹, Shim Dae Moo², Kim Tae Kyun²,
¹Wonkwang University Sanbon Hospital Orthopedic Surgery, Korea
²Wonkwang University Hospital Orthopedic Surgery

15:50-16:00
Discussion

16:00 -16:45
General Session: Basic
Room B
Moderators: Shing-Sheng Wu (Taiwan), Thavat Prasartritha (Thailand)
mRNA LBX1 Genome Expression as Distinct Susceptibility Profile for Adolescent Idiopathic Scoliosis In Indonesia

Sakti Yudha Mathan⁴, Heriyanto Didik Setyo², Saputra Marda Ade¹, Lanodiyu Zikrina Abyanti¹, Magetsari Rahadyan¹,
¹Department of Orthopaedic and Traumatology Sardjito General Hospital/Faculty of Medicine Universitas Gadjah Mada, Yogyakarta, Indonesia, Indonesia
²Department of Anatomical Pathology Sardjito General Hospital Faculty of Medicine Universitas Gadjah Mada

Novel Correlation of mRNA Estrogen Receptor (ESR) Genome Expression in Adolescent Idiopathic Scoliosis Cases

Heriyanto Didik Setyo¹, Sakti Yudha Mathan², Saputra Marda Ade², Lanodiyu Zikrina Abyanti², Magetsari Rahadyan²,
¹Department of Anatomical Pathology Sardjito General Hospital Faculty of Medicine Universitas Gadjah Mada Yogyakarta Indonesia, Indonesia
²Department of Orthopaedic and Traumatology Sardjito General Hospital/ Faculty of Medicine Universitas Gadjah Mada Yogyakarta Indonesia

The Differentiation Property and Behavior in Progenitor Cells of Vertebral Endplate, Disc and Ligamentum Flavum

Huang Kuo-Yuan¹, Lin Ruey-Mo², Huang Lynn L.H.³,⁴, Chang Ming-Shi⁵,
¹Department of Orthopedics, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, Taiwan
²Department of Orthopedics, China Medical University - An Nan Hospital, Tainan, Taiwan
³Institute of Biotechnology, College of Biosci & Biotech, National Cheng Kung University, Tainan, Taiwan.
⁴Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan.
⁵Graduate Institute of Biochemistry and Molecular Biology, College of Medicine, National Cheng Kung University, Tainan, Taiwan.

Material Characterization of a Synthetic, Highly Resorbable Calcium-based Bone Substitute and its Clinical use in Filling Implant Removal-derived Bone Defects
Lan Sheng-Min¹, Bing-Chen Yang², Wei-Ti Chin³, Chieh-Yu Lin³, Wei-Hua Wang², Chia-Ling Ko³, Chien-Ping Ju², Jiin-Huey Chern Lin²,
¹Dept. of Orthopaedics, National Cheng-Kung University Medical Center Dou-Liou Branch, Taiwan
²Dept. of Materials Science and Engineering, National Cheng-Kung University, Tainan, Taiwan
³Joy Medical Devices Corp., Taiwan

16:20-16:30
Discussion

16:30-16:35
Bioavailability of Human Osteoblast and Fibroblast Cells Towards In-House Machinery Processing of Titanium Alloy Grade 2 and Stainless Steel 316 L
Sakti Yudha Mathan¹, Suyitno Suyitno², Lanodiyyu Zikrina¹, Respati Suryadharma¹, Novito Kiki³, Budhiparana Nicolaas³, Magetsari Rahadyan¹,
¹Department of Orthopaedic and Traumatology Sardjito General Hospital/Faculty of Medicine Universitas Gadjah Mada, Yogyakarta, Indonesia, Indonesia
²Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia
³Department of Orthopaedic and Traumatology Jakarta Medistra Hospital, Indonesia

16:35-16:40
Biomechanical Insertion Properties on Different Thread and Core Design of Indonesian Customized Pedicle Screw (Comparison of V-Thread Cylinder Core, Square-Thread Cylinder Core and Square-Thread Conical Core)
Sakti Yudha Mathan¹, Saputra Marda Ade¹, Iskandar Ronald¹, Lanodiyyu Zikrina Abyanti¹, Suyitno Suyitno², Magetsari Rahadyan¹,
¹Department of Orthopaedic and Traumatology Sardjito General Hospital/Faculty of Medicine Universitas Gadjah Mada, Yogyakarta, Indonesia, Indonesia
²Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

16:40-16:45
Discussion

17:00-18:00
Evening seminar
Room 2: Jun Mizutani (Japan)
Moderators: Toru Hasegawa (Japan)