대한척추외과학회
KOREAN SOCIETY OF SPINE SURGERY



The 37th Fall Congress
Korean Society of Spine Surgery
제37차 대한척추외과학회 추계학술대회

November 13(Fri)~14(Sat), 2020
Millennium Hilton Seoul

■ 서울시 동작구 보라매로 5길 20, 서울특별시 보라매병원 행복관(2동) 11층 225호 대한척추외과학회
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인 사 말

존경하는 대한척추외과학회 회원 여러분께

대한척추외과학회가 올해로 37차 추계학술대회를 맞이합니다. 올해는 예상하지 못했던 코로나 사태로 인해 춘계학술대회가 8월 초로 연기되었고, 처음으로 국제학술대회로 준비하면서 해외 연자를 20명 이상 초청했지만 온라인/오프라인 하이브리드 형태로 개최되어 아쉬움이 큽니다.

하지만 여러 우려에도 불구하고 성공적인 학회가 되도록 수고해 주신 전임 김학선 회장님과 이재협 총무님, 석경수 학술위원장님, 김호중 학술위원회 총무님께 감사 인사를 드립니다.

기존 추계학술대회는 연구회 중심의 심포지움 형식이었으나, 올해부터 춘계학술대회가 국제학회로 전환됨에 따라 추계학술대회는 국내학회 형식으로 변경되어, 자유연제가 발표되고 초청연자도 포함됩니다.

학회가 한 단계 도약하기 위해서는 어려운 여건하에도 환자 진료와 척추외과학 연구에 매진하시는 회원 선생님들의 적극적인 참여가 필요합니다. 새롭게 구성되는 추계학술대회가 성공적으로 정착될 수 있도록 회장을 포함한 임원짐은 최선을 다하겠습니다.

감사합니다.

2020년 11월

대한척추외과학회 회장 **조 규 정**

The 37th Fall Congress Korean Society of Spine Surgery

PROGRAM SUMMARY

Nov. 13 (Fri), 2020		
Time	Room A	Room B
07:50-08:00	Opening Ceremony	
08:00-08:30	Free Paper: Lumbar I	Free Paper: Cervical I
08:30-09:00	Free Paper: Lumbar II	Free Paper: Cervcial II
09:00-09:30	Free Paper: Deformity I	Free Paper: MISS + Mis
09:30-09:40	Coffee Break	
09:40-10:10	Free Paper: Deformity II	Free Paper: Basic
10:10-10:40	Free Paper: Trauma	Free Paper: Tumor and Infection
10:40-12:10	Concurrent Session: Deformity	Concurrent Session: MISS
12:10-12:30	General Assembly	
12:30-13:20	Luncheon Symposium	
13:20-14:00	Concurrent Session: Basic Science	Concurrent Session: Spine Cord
14:00-15:00	Concurrent Session: Spine Pain	Concurrent Session: Spine Osteoporosis
15:00-16:00	Concurrent Session: Cervical Spine	Concurrent Session: Lumbar spine
16:00-16:30	Debate	Debate
16:30-16:40	Coffee Break	
16:40-17:20	Honorary Session	
17:20-18:10	Plenary Symposium I	
18:10-18:30	Group Photo	
18:30-	Dinner	

Nov. 14 (Sat), 2020	
Time	Room A, B
08:00-08:50	Gyeonggi-Inchon Branch of the Korean Spine scoiety Session
08:50-09:50	Plenary Symposium II
09:50-10:00	Coffee Break
10:00-11:00	Plenary Symposium III
11:00-11:50	Plenary Symposium IV
11:50-12:00	Award and Adjourn

Room A

07:50-08:00 Opening Ceremony — President Kyu-Jung Cho

08:00-08:30 Free Paper: Lumbar I

Moderator: (Seoul National Univ.) **Bong-Soon Chang**
(VHS Medical Center) **Young Bae Kim**

08:00-08:05 Incidence of adjacent segment disease after minimally invasive transforaminal lumbar interbody fusion versus posterior lumbar interbody fusion: based on cases with a minimum of 10 years of follow-up

Jae Chul Lee[1], Youngho Roh[1], Dae Woong Kim[1]
Sung-Woo Choi[1], Hae-dong Jang[2], Tae wook Kang[1]
Byung-Joon Shin[1]

Soonchunhyang Univ. Seoul Hosp. Dept. of Orthop. Surg.[1]
Soonchunhyang Univ. Bucheon Hosp. Dept. of Orthop. Surg.[2]

08:05-08:10 Hand grip strength can predict clinical outcomes and risk of falls after decompression and instrumented posterolateral fusion for lumbar spinal stenosis

Ji-Won Kwon[1], Byung Ho Lee[2], Soo-Bin Lee[2]
Sahyun Sung[2], Chang-Uk Lee[2], Jae-Ho Yang[2]
Moon-Soo Park[3], Junwoo Byun[2], Hwan-Mo Lee[2]
Seong-Hwan Moon[2]

National Health Insurance Service Ilsan Hosp. Dept. of Orthop. Surg.[1]
Yonsei Univ. Dept. of Orthop. Surg.[2]
Hallym Univ. Dept. of Orthop. Surg.[3]

08:10-08:15 Is it appropriate to insert screws at infected vertebral bodies in the treatment of lumbar pyogenic spondylodiscitis?

Hwa-Yeop Na, Joo-Young Lee, Hyung-Do Kim

Bundang Jesaeng General Hosp. Dept. of Orthop. Surg.

08:15-08:20 Application of a novel attachable magnetic nerve stimulating probe in intraoperative lumbar pedicle screw placement: a porcine model study

Tae Sik Goh[1], Yong Geon Park[1], Dong Suk Kim[1]
Seung Min Son[2], Jung Sub Lee[1]

Busan National Univ. Hosp. Dept. of Orthop.c Surg.[1]
Busan National Univ. Yangsan Hosp. Dept. of Orthop. Surg.[2]

08:20-08:30 *Discussion*

Room B

08:00-08:30 Free Paper: Cervical I

Moderator: (Ewha Univ.) **Dong-Jun Kim**
(Chonnam National Univ.) **Hyoung-Yeon Seo**

08:00-08:05 Proposal of modified classification and treatment strategy for transverse fractures of the C2 body: Analysis of 49 cases

Jong-Beom Park[1], Dong-Gune Chang[2]
Sung-Kyu Kim[3], Hyoung-Yeon Seo[3], Jong-Hyun Ko[4]

Catholic Univ. Uijeongbu Hosp. Dept. of Orthop. Surg[1]
Inje Univ. Sanggye Paik Hosp. Dept. of Orthop. Surg.[2]
Chonnam National Univ. Hosp. Dept. of Orthop. Surg.[3]
Chonbuk National Univ. Hosp. Dept. of Orthop. Surg.[4]

08:05-08:10 Relating factors of time delay between injury to emergent surgical management in traumatic cervical spinal injury

Byung Wan Choi, Min Sung Choi, Sung Soo Kim

Inje Univ. Haeundae Paik Hosp. Dept. of Orthop. Surg.

08:10-08:15 What type of incision for anterior cervical spine surgery involving long segments can bring better cosmetic and functional outcomes?

Hyung Rae Lee, Jae Hwan Cho, Woon Sang Lee
Chan Woong Byun, Sang Yun Seok, Chang Ju Hwang
Dong-Ho Lee, Choon Sung Lee

Asan Medical Center, Univ. of Ulsan College of Medicine
Dept. of Orthop. Surg.

08:15-08:20 The predictable factors affecting postoperative loss of cervical lordosis after cervical laminoplasty for cervical spondylotic myelopathy

Chang-Hee Cho[1], Kee-Yong Ha[1]
Young-Hoon Kim[1], Sang-Il Kim[1]
Hyung-Youl Park[2], Hunchul Kim[1], Jae-Won Lee[3]

Seoul St. Mary's Hosp., Dept. of Orthop. Surg.[1]
Eunpyeong St. Mary's Hosp. Dept. of Orthop. Surg.[2]
Incheon St. Mary's Hosp. Dept. of Orthop. Surg.[3]

08:20-08:30 *Discussion*

Room A

08:30-09:00 **Free Paper: Lumbar II**
Moderator: (Yonsei Univ.) **Hwan-Mo Lee**
(Chosun Univ.) **Hong-Moon Sohn**

08:30-08:35 Osteoporotic vertebral fractures: risk factors related to progressive vertebral collapse
Jae-Sung Ahn[1], Ho-Jin Lee[1]
Jong-Hwa Park[1], Seok-Hwan Song[2]
Chungnam National Univ. Dept. of Orthop. Surg.[1]
Marathon Hosp. Dept. of Orthop. Surg.[2]

08:35-08:40 Risk factors for worsening of sagittal imbalance following revision posterior fusion surgery in patients with adjacent segment disease
Sang Yun Seok, Jae Hwan Cho, Woon Sang Lee
Hyung Rae Lee, Chan Woong Byun
Asan Medical Center, Dept. of Orthop. Surg.

08:40-08:45 Comparison of sacroiliac joint degeneration between patients with sagittal imbalance and lumbar spinal stenosis
Hee-Jin Yang, Ho-Joong Kim, Byung-Taek Kwon,
Sang-Min Park, Bong-Soon Chang, Jin S. Yeom
Seoul National Univ. Dept. of Orthop. Surg.

08:45-08:50 Radiological outcomes according to the vascular anatomy in oblique lateral interbody fusion at L5-S1
Chang-Hoon Jeon, Nam-Su Chung, Han-Dong Lee
Ajou univ. Dept. of Orthop. Surg.

08:50-09:00 *Discussion*

09:00-09:30 **Free Paper: Deformity I**
Moderator: (Inha Univ.) **Kyu-Jung Cho**
(Catholic Univ.) **Young-Hoon Kim**

09:00-09:05 Improvement in gait pattern and its relationship with preoperative pelvic compensation after surgery in patients with sagittal plane deformity
Ho-Joong Kim, Sang-Min Park, Oh-Sang Kwon
Hee-Soo Han, Jin-Seob Yeom, Jung-Guel Kim
Seoul National Univ. Bundang Hosp.
Spine Center, Dept. of Orthop. Surg.

Room B

08:30-09:00 **Free Paper: Cervcial II**
Moderator: (Seoul National Univ.) **Jin S. Yeom**
(Hallym Univ.) **Moon-Soo Park**

08:30-08:35 Is the degree of cervical foraminal stenosis related to the severity of pain and disability of the neck and arm?
Han-Dong Lee, Chang-Hoon Jeon, Nam-Su Chung,
Hee-Woong Chung, Ki-Hoon Park
Ajou Univ. Hosp. Dept. of Orthop. Surg.

08:35-08:40 Diagnostic usefulness and reliability of 10-step tandem gait for the patient with degenerative cervical myelopathy
Kyung Chung Kang[1], Jung Hee Lee[1], Ki Tack Kim[2]
Yong Chan Kim[2], Jong June Park[1], In Uk Hwang[1]
Kyung Hee Univ. Hosp. Orthop. Dept.[1]
Kyung Hee Univ. Hosp. At Gangdong Orthop. Dept.[2]

08:40-08:45 Bicortical laminar screws for posterior fixation of subaxial cervical spine
Woo-Kie Min, Eugene J. Park
Kyungpook National Univ. Hosp. Dept. of Orthop. Surg.

08:45-08:50 Clinical outcomes and fate of retro-odontoid mass after upper cervical spine surgery
Jae-Won Shin, Kyung-Soo Suk
Hak-Sun Kim, Jae-Ho Yang, Byung-Ho Lee
Jin-Oh Park, Sang-Jun Park, Sub-Ri Park
Sun-Kyu Kim, Jane F Garcia
Yonsei Univ. Dept. of Orthop. Surg.

08:50-09:00 *Discussion*

09:00-09:30 **Free Paper: MISS+Mis**
Moderator: (Chungbuk National Univ.) **Dong-Soo Kim**
(Soonchunhyang Univ.) **Jae Chul Lee**

09:00-09:05 Minimally invasive corpectomy with a self-retaining retractor and percutaneous posterior stabilization for thoraco-lumbar burst fractures
Bo Taek Kim[1], Jae-Young Hong[1], Seung-Woo Suh[2]
Jae-Hyuk Yang[2], Si-Young Park[3], Taewook Kang[3]
Korea Univ. Ansan Hosp. Dept. of Orthop. Surg.[1]
Korea Univ. Guro Hosp. Dept. of Orthop. Surg.[2]
Korea Univ. Anam Hosp. Dept. of Orthop. Surg.[3]

Room A

09:05-09:10 Re-stooping after corrective osteotomy in patients with ankylosing spondylitis

Ye-Soo Park, Byeong-Jik Kang

Guri Hosp., Hanyang Univ. Dept. of Orthop. Surg.

09:10-09:15 Research of S2- ala iliac screw entry point and saftey insertion angle using 3D model analysis

Jae Hyuk Yang[1], Dong-Gune Chang[2]
Jeong Hwan Ahn[1], Jeong Hwan Ahn[1]
Choi Jeong Seok[1], Seung Woo Suh[1]

Korea Univ. GURO Hosp. Dept. of Orthop. Surg.[1]
Inje Univ. Sanggye Baek-Hosp. Dept. of Orthop. Surg.[2]

09:15-09:20 Validity of the global alignment proportion (GAP) score in predicting mechanical complications and proximal junctional failure after adult spinal deformity surgery in elderly patients

Ho-Joong Kim, Dae-Woong Ham, Jae-Heouk Choi

Bundang Seoul National Univ. Hosp. Dept. of Orthop. Surg.

09:20-09:30 *Discussion*

09:30-09:40 *Coffee Break*

09:40-10:10 **Free Paper: Deformity II**

Moderator: (Soonchunhyang Univ.) **Byung-Joon Shin**
(Inje Univ.) **Sung-Soo Kim**

09:40-09:45 Long-term benefits of appropriately corrected sagittal alignment in reconstructive surgery for adult spinal deformity: Evaluation of clinical outcomes and mechanical failures

Chong-Suh Lee, Se-Jun Park, Jin-Sung Park
Yun-Jin Nam, Youn-Taek Choi

Samsung medical center, Dept. of Orthop. Surg.

09:45-09:50 S2-Alar-Iliac screw technique is superior to iliac screw technique following surgical correction for adult spinal deformity? "In the change of spino-pelvic parameters"

Yong-Chan Kim, Ki-Tack Kim, Kee-Yong Ha
Joonghyun Ahn, Qiang Luo, Seungnam Ko
Sung-Min Kim, Mingyu Kim

Kyung Hee Univ. Hosp. at Gangdong, Dept. of Orthop. Surg.

09:50-09:55 The influence of posterior facetectomy on lumbar lordosis in lateral lumbar interbody fusion

Hae-Dong Jang, Eung-Ha Kim

Soonchunhyang Univ. Bucheon Hosp. Dept. of Orthop. Surg.

Room B

09:05-09:10 Effect of spinal stenosis on bone mineral density in patients with osteoporosis: Comparison of three oral bisphosphonate therapies

In-Hwa Baek, Hyung-Youl Park, Jun-Seok Lee

Eunpyeong St. Mary's Hosp. Dept. of Orthop. Surg.

09:10-09:15 Effect of plate length and screw insertion angle in anterior cervical discectomy and fusion – Radiologic and clinical outcome

Kathryn Anne Jimenez, Jihyeon Kim, Jeongseok Yu
Hwan-Mo Lee, Seong-Hwan Moon, Kyung-Soo Suk
Hak-Sun Kim, Jae-HoYang, Byung Ho Lee

Yonsei Univ., Dept. of Orthop. Surg.

09:15-09:20 Efficacy of postural reduction of vertebral compression fracture with extension lateral radiograph prior to vertebroplasty

Sehan Park[1], Jae Jun Yang[1], Ki-Hyong Koo[2]

Dongguk Univ. Ilsan Hosp. Dept. of Orthop. Surg.[1]
Bucheon Yeson Hosp. Dept. of Orthop. Surg.[2]

09:20-09:30 *Discussion*

09:30-09:40 *Coffee Break*

09:40-10:10 **Free Paper: Basic**

Moderator: (Catholic Univ.) **Ki-Won Kim**
(Seoul National Univ.) **Jae Hyup Lee**

09:40-09:45 Prediction of dysplastic spondylolisthesis by measuring pedicle and vertebral body size

Jin Hwan Kim, Sung Tan Cho

Inje Univ., Ilsanpaik Hosp. Dept. of Orthop. Surg.

09:45-09:50 Umbilical cord blood mesenchymal stem cell-derived nanovesicles promote the osteogenetic efficacy of bone morphogenetic protein 2

Hao-Zhen Lyu[1], Songhyun Lim[2]
Byung-Soo Kim[2], Jae Hyup Lee[1]

SMG-SNU Boramae Medical Center, Seoul National Univ. Dept. of Orthop. Surg.[1]
School of Chemical and Biological Engineering, Seoul National Univ. Laboratory for Regenerative Biomedical Engineering[2]

09:50-09:55 EOS analysis of sagittal alignment of spine and pelvis in korean adult population

Min Gu Jang[1], Sang Bum Kim[2]
Jin Woong Lee[1], Kyung Deok Seo[1]

Konyang Univ. Hosp. Dept. of Orthop. Surg.[1]
Chungnam National Univ. Hosp. Dept. of Orthop. Surg.[2]

Room A

09:55-10:00 Effect of regional and global sagittal balance following single level L5-S1 PLIF

Hyung Rae Lee, Jae Hwan Cho, Woon Sang Lee
Chan Woong Byun, Sang Yun Seok
Chang Ju Hwang, Dong-Ho Lee, Choon Sung Lee
Asan Medical Center, Dept. of Orthop. Surg.

10:00-10:10 *Discussion*

10:10-10:40 **Free Paper: Trauma**
Moderator: (Ajou Univ.) **Chang-Hoon Jeon**
(Chungnam National Univ.) **Sang Bum Kim**

10:10-10:15 Risk factors for subsequent vertebral fractures following a previous hip fracture

Sang-Min Park, Young-Kyun Lee
Ho-Joong Kim, Jin S. Yeom, Kyung-Hoi Koo
Seoul National Univ. Bundang Hosp. Dept. of Orthop. Surg.

10:15-10:20 Cost-effectiveness analysis of conservative treatment, vertebroplasty and balloon kyphoplasty in patients with acute osteoporotic vertebral compression fractures in South Korea

Hee-Jung Son, Chang-Nam Kang
Sung Hoon Choi, Dong Ryul Heo
Ji Won Jung, Myeong Geun Lee, In Cheol Kuk
Hanyang Univ. Dept. of Orthop. Surg.

10:20-10:25 The analysis about cement leakage and configuration which affect incidence of adjacent vertebral compression fracture after vertebroplasty or kyphoplasty

Jeong Bong Kim, Jong Min Baik
Young Hyun Yoon, Deuk Soo Jun
Gachon Univ. Gil Medical Center, Dept. of Orthop. Surg.

10:25-10:30 Significance of postoperative sagittal balance in cervicothoracic (C7-T1) fracture and dislocation according to surgical method

Whoan Jeang Kim, Seong Ho Park, Hyun Min Shin
Dae Geon Song, Jae Won Lee, Shann Haw Chang
Kun Young Park, Won Sik Choy
Eulji Univ. Dept. of Orthop. Surg.

10:30-10:40 *Discussion*

Room B

09:55-10:00 Intraoperative real-time stress in degenerative lumbar spine surgery: Simultaneous analysis of electroencephalography signals and heart rate variability: A pilot study

Ji-Won Kwon[1], Sahyun Sung[2], Soo-Bin Lee[2]
Seong-Hwan Moon[2], Hwan-Mo Lee[2], Byung Ho Lee[2]
National Health Insurance Service Ilsan Hosp. Orthop. Surg.[1]
Yonsei Univ. Dept. of Orthop. Surg.[2]

10:00-10:10 *Discussion*

10:10-10:40 **Free Paper: Tumor and Infection**
Moderators: (Gangwon National Univ.) **Woo Dong Nam**
(Busan National Univ.) **Jung Sub Lee**

10:10-10:15 Postoperative spinal infection following invasive dental procedure and the effect of antibiotic prophylaxis

Sahyun Sung[1], Soo-Bin Lee[2], Ji-Won Kwon[3]
Seong-Hwan Moon[4], Hwan-Mo Lee[4], Byung-Ho Lee[4]
Ewha Womans Univ. Seoul Hosp. Dept. of Orthop. Surg.[1]
Bundang Jesaeng General Hosp. Dept. of Orthop. Surg.[2]
National Health Insurance Corporation Ilsan Hosp. Dept. of Orthop. Surg.[3]
Yonsei Univ. Dept. of Orthop. Surg.[4]

10:15-10:20 Comparing the diagnostic accuracies of f-18 fluorodeoxyglucose positron emission tomography and magnetic resonance imaging for the detection of spondylodiscitis: A meta-analysis

Tae Sik Goh, Yong Geon Park
Dong Suk Kim, Seung Min Son, Jung Sub Lee
Busan National Univ. Hosp. Dept. of Orthop. Surg.

10:20-10:25 The effect of adding biological profiles to the decision-making process for spinal metastasis of non-small cell lung cancer

Sam Yeol Chang[1], Hyoungmin Kim[1], Sujung Mok[1]
Sung Cheol Park[1], Bong-Soon Chang[1], Choon-Ki Lee[2]
Seoul National Univ. Hosp. Dept. of Orthop. Surg.[1]
Chamjoeun Hosp. Dept. of Orthop. Surg.[2]

10:25-10:30 Instrumentation-related complications and related factors after nonfusion posterior fixation in patients with metastatic spinal tumors

Yunjin Nam, Se-Jun Park, Jin-Sung Park,
Youn-Taek Choi, Chong-Suh Lee
Samsung Medical Center Dept. of Orthop. Surg.

10:30-10:40 *Discussion*

Room A

Concurrent Session: Deformity

10:40-11:30 Safety Issues in complex spine deformity surgery
Moderators: (Soonchunhyang Univ.) **Eung Ha Kim**
(KS Hosp.) **Ki-Ho Na**

10:40-10:44 Introduction to spine deformity symposium
(Kyung Hee Univ.) Jung-Hee Lee

10:44-10:56 Recent advances in critical care after complex spine deformity surgery
(Seoul National Univ.) Ho Geol Ryu

10:56-11:08 Acute postoperative critical care in complex spine deformity surgery
(Sungkyunkwan Univ.) Chi-Min Park

11:08-11:20 NSAID treatment safety for cardiovascular and bleeding risk in Korean population
(Korea Univ.) Cheol Ung Choi

11:20-11:30 *Discussion*

Room B

Concurrent Session: Minimally Invasive Spinal Surgery (MISS)

10:40-11:10 Endoscopic lumbar spine fusion
Moderator: (Kyung Hee Univ.) **Ki Tack Kim**
(Hanyang Univ.) **Chang-Nam Kang**

10:40-10:47 Know-how in biportal endoscopic lumbar interbody fusion (Busan Himnaera Hosp.) Ju Eun Kim

10:47-10:54 Extraforaminal lumbar interbody fusion assisted with biportal endoscopic technique
(Hallym Univ., Kangnam Sacred Heart Hosp.) Hyun-Jin Park

10:54-11:01 Multi-level posterior lumber interbody fusion by biportal technique using 30 degree arthroscope
(Jinju Bon Hosp.) Seok-Bong Jung

11:01-11:10 *Discussion*

11:10-11:40 Endoscopic Decompression I
Moderator: (Jeonju Korea Hosp.) **Keun Ho Park**
(Hallym Univ.) **Seok Woo Kim**

11:10-11:17 Predictors of clinical outcome in endoscopic partial facetectomy for degenerative lumbar foraminal stenosis (Busan Keun Hosp.) Myung Soo Youn

11:17-11:24 Biportal endoscopy update; contralatertal foraminoplasty with unilateral laminotomy bilateral decompression
(Chungnam national Univ. Hosp.) Ho-Jin Lee

11:24-11:31 Unilateral laminectomy and bilateral decompression of lumbar central stenosis with biportal endoscopic versus mini-open microscopic technique: An analysis of a prospective randomized controlled trial
(Seoul National Univ. Bundang Hosp.) Sang-Min Park

11:31-11:40 *Discussion*

Room A

11:30-12:10 Future development direction in spine deformity research society
Moderators: (Sungkyunkwan Univ.) **Chong-Suh Lee**
(Korea Univ.) **Seung Woo Suh**

11:30-11:40 Suggestions for multicenter research in spine deformity research society
(Sungkyunkwan Univ.) Se-Jun Park

11:40-11:50 Sub-society suggestions: Adult spinal deformity committee (Catholic Univ.) Young-Hoon Kim

11:50-12:00 Sub-society suggestions: Pediatric spinal deformity committee (Ulsan Univ.) Chang Ju Hwang

12:00-12:10 *Discussion*

12:10-12:30 General Assembly

12:30-13:20 Luncheon Symposium
Moderator: (Inha Univ.) Kyu-Jung Cho

12:30-12:50 Romosozumab, a new bone anabolic treatment option for osteoporosis
(Inje Univ. Haeundae Paik Hosp.) Sung-Soo Kim

12:50-13:20 Up-to-Date Concept of NSAIDs and Polmacoxib
(Korea Univ.) Si Young Park

Concurrent Session: Basic Science

13:20-14:00 COVID-19 and spine surgery
Moderator: (Kwangju Christian Hosp.) Yong-Soo Choi
(Inje University) Jin Hwan Kim

13:20-13:30 What is COVID-19 and it's impact
(Seoul National Univ.) Pyoeng Gyun Choe

13:30-13:40 COVID-19 related spine research review
(Catholic Univ.) Hyung-Youl Park

13:40-13:50 Spine care perspective in Pandemic situation
(Chung-Ang Univ.) Kwang-Sup Song

13:50-14:00 *Discussion*

Room B

1140-12:10 Endoscopic Decompression II
Moderator: (Eulji Univ.) **Hwoan Jeang Kim**
(National Health Insurance Service Ilsan Hosp.) **Yung Park**

11:40-11:47 Endoscopic anatomy in biportal endoscopic spine surgery (Korea Univ.) Si Young Park

11:47-11:54 Biportal endoscopic spine surgery for highly up-migrated HNP (Sae-Um Hosp.) Dong Yun Kim

11:54-12:01 Postoperative spinal hematoma in biportal endoscopic spine surgery
(Seoul Sacred Heart General Hosp.) Won Shik Shin

12:01-12:10 *Discussion*

12:10-12:30 General Assembly

12:30-13:20 Luncheon Symposium
Moderator: (Seoul National Univ.) Bong Soon Chang

12:30-12:55 Effect of Teriparatide on the healing of osteoporotic vertebral compression fracture
(Seoul National Univ.) Ho-Joong Kim

12:55-13:20 Combination of Raloxifene and Vit.D
(Yonsei Univ.) Byeong Ho Lee

Concurrent Session: Spine Cord

13:20-14:00 All about EMG
Moderator: (Seoul Sacred Hosp.) **Dong Ki Ahn**
(Ulsan Univ.) **Chang Ju Hwang**

13:20-13:35 Overview (Ulsan Univ.) Dae Yul Kim

13:35-13:43 Clinical application: Cervical spine
(Hanyang Univ.) Sung Hoon Choi

13:43-13:51 Clinical application: Lumbar spine
(Keimyung Univ.) Suk Joong Lee

13:51-14:00 *Discussion.*

Room A

Concurrent Session: Spine Pain

14:00-14:30 Session 1. Facet joint syndrome
Moderator: (Wonkwang Univ.) **Dae Moo Shim**
(Chung-Ang Univ.) **Kwang-Sup Song**

14:00-14:05 Anatomy and biomechanical property of facet joint
(Ilsan Hosp.) Ji-Won Kwon

14:05-14:10 Cervical facet joint syndrome
(Seoul Sungae Hosp.) Seung Pyo Suh

14:10-14:15 Lumbar facet joint syndrome
(Reton Hosp.) Young Tae Kim

14:15-14:20 Intervention and surgical treatment for facet joint syndrome (Kosin Univ.) Chang Su Kim

14:20-14:30 *Discussion*

14:30-15:00 Session 2. Postoperative pain management after spinal operation
Moderator: (Seoul Choi's Hosp.) **Yong Gi Chio**
(Sun's Orthop.) **Seung Deok Sun**

14:30-14:40 Symptomatic approach of postoperative pain
(Ulsan Univ.) Jae Ryong Cha

14:40-14:50 Postoperative pain management by anethesiologist
(Seoul National Univ.) Ho Jin Lee

14:50-15:00 *Discussion*

Concurrent Session: Cervical Spine

15:00-15:35 Symposium: Differential diagnosis with cervical spondylotic myelopathy
Moderator: (Kyungpook Univ.) **Woo-Kie Min**
(Barun Mind Hosp.) **Taeksoo Jeon**

15:00-15:07 Cervical spondylotic amyotrophy
(Dong-A Univ.) Min Woo Kim

15:07-15:14 Hirayama disease (Dongguk Univ.) Jae Jun Yang

15:14-15:21 Multifocal mononeuropathy
(Yeungnam Univ.) Gun Woo Lee

15:21-15:28 ALS & Guilla in barre syndrome
(Catholic Univ. Dept. of Neurology) Young Nam Kwon

15:28-15:35 *Discussion*

Room B

Concurrent Session: Spine Osteoporosis

14:00-14:40 Symposium I: Treatment of osteoporosis
Moderator: (Busan Centum Hosp.) **Kyu-Yeol Lee**
(Hanyang Univ.) **Ye-Soo Park**

14:00-14:08 Tx of steroid induced osteoporosis
(Inje Univ.) Dong-Ju Lim

14:08-14:16 New drugs for osteoporosis
(Soonchunhyang Univ.) Hae-Dong Jang

14:16-14:24 Combination therapy (Yonsei Univ.) Byung-Ho Lee

14:24-14:32 Sequential Therapy (Kunkuk Univ.) Tae-Hoon Kim

14:32-14:40 *Discussion*

14:40-15:00 Symposium II: Big data analysis for osteoporosis
Moderator: (Yonsei Univ.) **Seong-Hwan Moon**
(Korea Univ.) **Si-Young Park**

14:40-14:48 Mortality after OVCF
(Sungkyunkwan Univ.) Jin Sung Park

14:48-14:56 Cardiovascular risks in patient with OVCF
(Korea Univ.) Jae Hyuck Yang

14:56-15:00 *Discussion*

Concurrent Session: Lumbar spine

15:00-15:22 Cutting edge of basic awareness
Moderator: (Wonkwang Univ.) **Tae Kyun Kim**
(Kyung Hee Univ.) **Yong-Chan Kim**

15:00-15:07 Anatomical consideration of sacrum of L5 on ilium
(Sungkyunkwan Univ.) Hyun Soo Kim

15:07-15:14 Change of S1 joint after lumbar spinal fusion
(Soonchunhyang Univ.) Chang Hwa Hong

15:14-15:22 *Discussion*

Room A

15:35-16:00 **Surgical techniques**
Moderator: (Yonsei Univ.) **Kyung-Soo Suk**
(Pohang Semyeong Chrisitianity Hosp.) **Bo-Gun Suh**

15:35-15:43 Intraoperative management of posterior drual tear/ defect (Seoul National Univ.) Jin S. Yeom
15:43-15:51 Vertebral sliding technique (Ulsan Univ.) Dong-Ho Lee
15:51-16:00 *Discussion*

16:00-16:30 **Debate: 2 level cervical spondylotic raiculopathy**
Moderator: (Catholic Univ.) **Jong-Beom Park**
(Daegu Catholic Univ.) **Sang-Bong Ko**

16:00-16:02 Case presentation
16:02-16:07 2 level ACDF (Hallym Univ.) Moon Soo Park
16:07-16:12 2 level ADR (Wooribone Orthop. Hosp.) Kyeong Hwan Kim
16:12-16:17 Hybrid 1 level ACDF and 1 level ADR
(Inje Univ.) Byung-Wan Choi
16:17-16:22 2 level Posterior foraminotomy
(Kyung Hee Univ.) Kyung Chung Kang
16:22-16:30 *Discussion*
16:30-16:40 *Coffee Break*

16:40-17:20 **Plenary Session: Honorary Session**
Moderator: (Inha Univ.) **Kyu-Jung Cho**

16:40-17:00 Future of spine service
(Soonchunhyang Univ.) Byung-Joon Shin
17:00-17:20 Invited Lecture: Minimally invasive spine surgery for adult spinal deformity
(Chung-Ang Univ.) Seung-Won Park

17:20-18:10 **Plenary Symposium I**
Moderator: (Yonsei Univ.) **Hak-Sun Kim**

17:20-17:30 장애 판정 기준 개정의 필요성 (Inje Univ.) Sung-Soo Kim
17:30-17:40 장애 판정기준 개정 내용 (Gachon Univ.) Deuk Soo Jun
17:40-18:10 토의

Room B

15:22-16:00 **Enhanced recovery after surgery for spine (ERAS)**
Moderator: (Ewha Univ.) **Youngdo Koh**
(Soonchunhyang Univ.) **Chang Hwa Hong**

15:22-15:29 Introduction of ERAS (Hallym Univ.) Tae Hwan Kim
15:29-15:36 Pre-operative ERAS (BoneDream Hosp.) Jung Hoon Kim
15:36-15:43 Surgical strategies for ERAS
(Kyung Hee Univ.) Yong-Chan Kim
15:43-15:50 Post-operative ERAS (Inje Univ.) Dae-Hyun Park
15:50-16:00 *Discussion*

Debate

16:00-16:15 **I. How to operate to control L4-5 stenosis combined with moderate L3-4 stenosis?**
Moderator: (Cha Univ.) **Dong Eun Shin**
(Bundang Jesaeng Hosp.) **Hwa-Yeop Na**

16:00-16:05 Surgical treatment for L4-5 only
(Ulsan Univ.) Jae Hwan Cho
16:05-16:10 Surgical treatment for L4-5 and L3-4
(Sungkyunkwan Univ.) Hun Kyu Shin
16:10-16:15 *Discussion*

16:15-16:30 **II. Neglected weakness of ankle or big toe dorsiflexion due to HNP or spinal stenosis**

16:15-16:20 We do not have to operative on detection
(Seoul Veterans Hosp.) Young Bae Kim
16:20-16:25 We should operate on detection, don't miss any more time (Busan Mary's Hosp.) Seong Jun Ahn
16:25-16:30 *Discussion*
16:30-16:40 *Coffee Break*

08:00-08:50	**Gyeonggi-Inchon branch of the korean spine scoiety session**	Moderator: (Hallym Univ.) **Young-Woo Kim**
08:00-08:10	Surgical complications of cervical OPLL	(Dongguk Univ.) Jae Jun Yang
08:10-08:20	Thoracic OYL	(Wonkwang Univ.) Sung Kyun Oh
08:20-08:30	Surgical Strategy for cervical OPLL	(Hallym Univ.) Moon Soo Park
08:30-08:40	Management of dural tear/defect during anterior cervical surgery	(Seoul National Univ.) Jin S. Yeom (Seoul National Univ. Bundang Hosp.) Ji Won Park
08:40-08:50	*Dicussion*	
08:50-09:50	**Plenary Symposium II. Revisit unusual upper lumbar disc herniation**	Moderator: (CM Hosp.) **Jin Hyok Kim**
08:50-09:05	Upper lumbar disc herniation: anatomy, clinical characteristics and risk factors	(Dongguk Univ.) Jae Jun Yang
09:05-09:20	How to treat unusual upper lumbar disc herniation?	(Soonchunhyang Univ.) Jae Chul Lee
09:20-09:35	Surgical tips for reducing the critical complications	(Kyung Hee Univ.) Yong-Chan Kim
09:35-09:50	*Discussion*	
09:50-10:00	*Coffee Break*	
10:00-11:00	**Plenary Symposium III. Surgery related complications: What should we do and How?**	Moderator: (Ulsan Univ.) **Dong-Ho Lee**
10:00-10:05	Introduction	(Ulsan Univ.) Dong-Ho Lee
10:05-10:15	Uncontrolled CSF leak	(Chung-Ang Univ.) Kwang-Sup Song
10:15-10:25	Postoperative neurologic deficit	(Ulsan Univ.) Jae Hwan Cho
10:25-10:35	Postoperative delirium in elderly patients	(Kyungpook Univ.) Woo-Kie Min
10:35-10:45	Intra- and post-operative massive bleeding and transfusion	(Inje Univ.) Dong-Gune Chang
10:45-11:00	*Discussion*	
11:00-11:50	**Plenary Symposium IV. Recent advances in insurance issues related to spine surgeries**	Moderator: (Sungkyunkwan Univ.) **Hun-Kyu Shin**
11:00-11:03	Recent issues and trends (introduction)	(Sungkyunkwan Univ.) Hun-Kyu Shin
11:03-11:11	Issue 1: Spine MRI	(Hanyang Univ.) Ye-Soo Park
11:11-11:19	Issue 2: Conservative treatment before spine surgeries	(Seoul Sacred Heart General Hosp.) Dong Ki Ahn
11:19-11:27	Issue 3: Biportal endoscopic spine surgery	(Korea Univ.) Si Young Park
11:27-11:35	Issue 4: Personal health insurance	(Bundang Chuk Hosp.) Sang-Bum Chang
11:35-11:40	What's new in the criteria for insurance benefit?	(Seongnam Citizens Medical Center) Jeong Hyun Yoo
11:40-11:50	*Discussion*	
11:50-12:00	Award and Adjourn	

등록 안내

사전등록 마감일 2020년 10월 19일 (월) ~ 2020년 11월 14일 (토)

▶온라인 개최이므로 현장등록은 없습니다.

▶등록비

구 분	회 원	비회원의사	전공의, 군의관 및 간호사
사 전 등 록	50,000원	70,000원	40,000원
현 장 등 록	60,000원	80,000원	50,000원

▶연수 평점: 9점 (11월 13일 최대 6평점, 11월 14일 최대 3평점)

▶사전등록 송금 계좌번호

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▶문의사항

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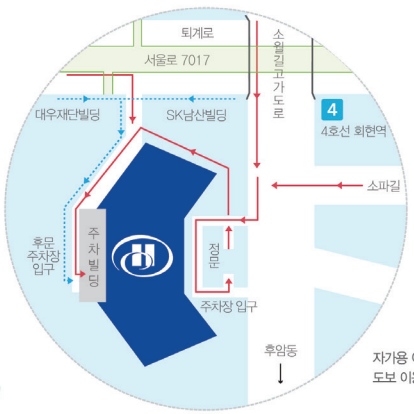
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서울역 (간) 100, 150, 151, 152, 162, 202, 421, 500, 501, 502, 503, 504, 505 506, 507, 750A, 750B, 751, 752, N15

(지) 1711, 7016

(공) 6001

남대문 (간) 103, 105, 173, 201, 261, 262, 400, 401, 405, 406, 471, 603, 701, 704, 702A, 702B

(지) 7017, 7021, 7022

(공) 8800, M4108, M4130, M5107, M5115, M5121

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