

**臺中榮民總醫院 研究大樓一樓 第二會議廳**  
**Taichung Veterans General Hospital Research Building, Conference Hall 2**

08:30-10:00 **Free Paper (O-11~O-23): MIS**

Moderators : 許建仁 Chien-Jen Hsu、胡名孝 Ming-Hsiao Hu

No 編號	Time 時間	Title 題目	Authors 作者	Organization 所屬單位	Pages 頁碼
O-11	08:30   08:36	Spondylolisthesis Reduction Using the Crane Maneuver in Combination with Minimally Invasive CBT Screw Technique: Effectiveness and Associated Factors	<u>陳冠融</u> /王鍵元/黃祥銘	中國醫藥大學新竹附設醫院骨科	
O-12	08:36   08:42	Comparison of MIS-TLIF Versus BETLIF in Lumbar Degenerative Disc Disease: Clinical and Radiological Outcomes	<u>黃昱豪</u> /許大立/陳鈺泓/鮑卓倫	亞東紀念醫院骨科部	
O-13	08:42   08:48	Unilateral Biportal Endoscopic Spine Surgery for Thoracic Spontaneous Spinal Epidural Hematoma: A Case Report	<u>曾準</u> <sup>1,2,3</sup> / <u>葉宸維</u> <sup>1</sup> / <u>林珈郁</u> <sup>1,3</sup> / <u>陳建聞</u> <sup>1</sup> / <u>李翎溢</u> <sup>1</sup> / <u>賴建穎</u> <sup>1</sup> / <u>蕭龐軒</u> <sup>1</sup> / <u>陳賢德</u> <sup>1,4</sup>	中國醫藥大學附設醫院骨科部 <sup>1</sup> 、中國醫藥大學北港附設醫院骨科部 <sup>2</sup> 、中國醫藥大學生物醫學研究所 <sup>3</sup> 、中國醫藥大學運動醫學系 <sup>4</sup>	
O-14	08:48   08:54	Application of Endoscopic Spine Surgery(ESS) for Osteoporotic Vertebral Compression Fracture (OVCF) . A Clinical Experience in TYGH	<u>游敬孝</u> / <u>吳鴻康</u> / <u>徐千寧</u> / <u>薛光凱</u>	衛生福利部桃園醫院骨科部	
O-15	08:54   09:00	How to Finish One- Level Endo-ULBD within An Hour- Pearls and Pitfalls	<u>何京澤</u> / <u>陳宏龍</u> / <u>徐文星</u>	聯新國際醫院骨科 <sup>1</sup> 、聯新國際醫院神經外科 <sup>2</sup> 、脊椎微創中心 <sup>3</sup>	
O-16	09:00   09:06	Targeted epidural blood patch under ultrasound guidance for unrecognized incidental durotomy after unilateral biportal endoscopic decompression: a case report	<u>李威佑</u> / <u>許峻誠</u> / <u>蕭又萌</u> / <u>林瑞模</u>	臺南市立安南醫院-委託中國醫藥大學興建經營	
O-17	09:06   09:12	Treatment of Lumbar Foraminal Stenosis with Uniportal Endoscopic Decompression Only or Endoscopic Fusion?	<u>劉郁欣</u> / <u>陳加憲</u>	衛生福利部雙和醫院 <sup>1</sup> 、新國民醫院 <sup>2</sup> 、臺北醫學大學 <sup>3</sup>	
O-18	09:12   09:18	Comparative analysis of multi-segmental spine decompression vs multi-segmental spine fusion by biportal spine surgery	<u>Seung Deok Sun</u>	Sun's Orthopedics' Clinic	

O-19	09:18   09:24	Learning curve of unilateral biportal endoscopic surgery <u>蕭又萌</u> <sup>1</sup> / <u>李威佑</u> <sup>1</sup> / <u>許峻誠</u> <sup>1</sup> / <u>林政立</u> <sup>2</sup> / <u>林瑞模</u> <sup>1</sup> 台南市立安南醫院 <sup>1</sup> 、國立成功大學醫學院附設醫院 <sup>2</sup>
O-20	09:24   09:30	Single-Lateral-Position Oblique Lumbar Interbody Fusion and Pedicle Screw Implantation: Technique and Preliminary Outcomes <u>潘建州</u> / <u>曾聖傑</u> / <u>林育賢</u> / <u>吳蘊哲</u> / <u>石承民</u> / <u>陳昆輝</u> / <u>李政鴻</u> 臺中榮民總醫院骨科部
O-21	09:30   09:36	The comparisons between prone lateral oblique lateral interbody fusion (OLIF) and minimally invasive transforaminal lumbar interbody fusion (MIS-TLIF) <u>李思慧</u> <sup>1</sup> / <u>劉彥麟</u> <sup>1</sup> / <u>胡永學</u> <sup>1</sup> / <u>葉祐成</u> <sup>1</sup> / <u>李昀達</u> <sup>1</sup> / <u>邱炳燁</u> <sup>1</sup> / <u>高福成</u> <sup>1</sup> / <u>謝明凱</u> <sup>1</sup> / <u>蔡宗廷</u> <sup>1</sup> / <u>賴伯亮</u> <sup>1</sup> / <u>傅再生</u> <sup>1</sup> / <u>牛自健</u> <sup>1</sup> / <u>陳力輝</u> <sup>1</sup> / <u>陳文哲</u> <sup>2</sup> 林口長庚醫院骨科部脊椎科 <sup>1</sup> 、台北中山醫院骨科 <sup>2</sup>
O-22	09:36   09:42	ALIF and OLIF as Salvage Procedures for Failed Lumbar Interbody Fusion <u>石承民</u> ， <u>陳昆輝</u> ， <u>潘建州</u> ， <u>吳蘊哲</u> ， <u>林育賢</u> ， <u>曾聖傑</u> ， <u>李政鴻</u> 臺中榮民總醫院骨科部
O-23	09:42   09:48	Expandable Intravertebral Titanium Implant for High-Energy Traumatic Thoracolumbar Burst Fracture without Neurological Deficits <u>楊志勇</u> <sup>1,2</sup> / <u>張明超</u> <sup>1,2,3*</sup> / <u>周伯鑫</u> <sup>1,2</sup> / <u>王世典</u> <sup>1,2,4</sup> / <u>林希賢</u> <sup>1,2</sup> / <u>姚又誠</u> <sup>1,2</sup> / <u>劉建麟</u> <sup>1,2</sup> 臺北榮民總醫院骨科部脊椎外科 <sup>1</sup> 、國立陽明交通大學醫學系骨科學科 <sup>2</sup> 、宏仁醫院 <sup>3</sup> 、衛生福利部金門醫院 <sup>4</sup>
	09:48   10:00	綜合討論 Discussion

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**Taichung Veterans General Hospital Research Building, Conference Hall 2**

10:30-12:00      **Free Paper (O-24~O-36) : C-spine/Infection/Trauma**

Moderators : 張建鈞 Chien-Chun Chang、呂孟嶺 Meng -Ling Lu

No 編號	Time 時間	Title 題目	Authors 作者	Organization 所屬單位	Pages 頁碼
O-24	10:30   10:36	Enhancing Intraoperative Radiographic Visualization of the Cervical Spine: A Simple and Innovative Technique	熊偉/陳政光/周伯鑫/釋高上/侯勝茂/洪立維/姚又誠/王世典/林希賢	新光醫院骨科部脊椎外科 <sup>1</sup> 、台北榮總骨科部脊椎外科 <sup>2</sup>	
O-25	10:36   10:42	Lateral Deviation of the Hyoid Bone and Thyroid Cartilage Influences Prevertebral Soft Tissue Swelling and Dysphagia after Anterior Cervical Discectomy and Fusion	Jun-Young, Choi, MD	Dongguk University Ilsan Hospital, Korea	
O-26	10:42   10:48	Effect of hemostatic matrix on Drain Output and Duration of Hospitalization After Multilevel Anterior Cervical Fusion	林希賢/張明超/姚又誠/周伯鑫/王世典/劉建麟	台北榮民總醫院骨科部脊椎外科	
O-27	10:48   10:54	C1–C2 pedicle screws insertion for symptomatic atlantoaxial instability using a customized guiding block. Case series report	許峻誠/蕭又萌/李威佑/林瑞模/方晶晶 <sup>2</sup>	安南醫院骨科 <sup>1</sup> 、成功大學醫工所 <sup>2</sup>	
O-28	10:54   11:00	Local vancomycin powder impregnated with autogenous bone graft and bone substitute may decrease deep surgical site infection in elective lumbar instrumented fusion surgery for degenerative diseases: A prospective randomized trial	周伯鑫 <sup>1,2</sup> 熊偉、林希賢 <sup>1,2</sup> 、姚又誠 <sup>1,2</sup> 、王世典 <sup>1,2,4</sup> 、張明超 <sup>1,2,5</sup> 、	國立陽明交通大學醫學系骨科學科 <sup>1</sup> 、臺北榮民總醫院骨科部 <sup>2</sup> 、 新光吳火獅紀念醫院骨科 <sup>3</sup> 、衛生福利部金門醫院 <sup>4</sup> 、宏仁醫院 <sup>5</sup>	
O-29	11:00   11:06	Overlapping Pathogens in Infectious Spondylodiscitis and the Advancements in Spinal Endoscopic Treatment	林珈郁/蕭龐軒/曾準/陳建聞/陳賢德	中國醫藥大學附設醫院骨科部	
O-30	11:06   11:12	Posterior Only Approach for Lumbar Pyogenic Spondylitis With Short Instrumentation and Prolonged Suction Drainage	Yong Min Kim, MD, PhD · Seong Geun Chu, MD	Department of orthopedics, National police hospital, Seoul, Republic of Korea	

O-31	11:12	Management Strategies for Postoperative Meningitis Following Lumbar Spinal Surgery— case series
	11:18	<u>吳蘊哲</u> / <u>李政鴻</u> / <u>陳昆輝</u> / <u>潘建州</u> / <u>石承民</u> / <u>林育賢</u> 臺中榮民總醫院骨科部
	11:18	The comparison between 1-stage prone lateral surgery and 2-stage anterior-posterior surgery for infective spondylodiskitis
O-32	11:24	<u>陳文哲</u> / <u>陳力輝</u> / <u>牛自健</u> / <u>傅再生</u> / <u>賴伯亮</u> / <u>蔡宗廷</u> / <u>謝明凱</u> / <u>高福成</u> / <u>邱炳燁</u> / <u>葉祐成</u> / <u>胡永學</u> / <u>劉彥麟</u> 林口長庚醫院脊椎科
O-33	11:24	NTM spine infection: Case series and literature review
	11:30	<u>張建鈞</u> / <u>陳賢德</u> / <u>林琮凱</u> / <u>蕭龐軒</u> / <u>林珈郁</u> / <u>賴建穎</u> / <u>李翎溢</u> / <u>曾準</u> / <u>羅元舜</u> / <u>陳建聞</u> 台中慈濟醫院 <sup>1</sup> 、中國醫藥大學附設醫院 <sup>2</sup>
O-34	11:30	Surgical and Neurological Outcome in Thoracolumbar Spine Fractures Among Patients with and without Ankylosing Spinal Disorders
	11:36	<u>楊宣綸</u> <sup>2,3</sup> / <u>林希賢</u> <sup>1,2</sup> / <u>周伯鑫</u> <sup>1,2</sup> / <u>王世典</u> <sup>1,2</sup> / <u>劉建麟</u> <sup>1,2</sup> / <u>姚又誠</u> <sup>1,2</sup> 台北榮民總醫院骨科部 <sup>1</sup> 、國立陽明交通大學醫學系骨科學科 <sup>2</sup> 、台北榮民總醫院教學部 <sup>3</sup>
O-35	11:36	Comparison of sagittal values between plain radiography and computed tomography in thoracolumbar fractures: a greater degree of kyphosis is observed in plain radiography than CT
	11:42	<u>Yong Min Kim, MD, PhD</u> · Seong Geun Chu, MD Department of orthopedics, National police hospital, Seoul, Republic of Korea
O-36	11:42	Nonfusion Method in Thoracolumbar and Lumbar Spinal Fractures
	11:48	<u>Yong Min Kim, MD, PhD</u> · Wan Soo Park, MD Department of orthopedics, National police hospital, Seoul, Republic of Korea
	11:48	綜合討論 Discussion
	12:00	

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13:30-15:00                      **Free Paper (O-37~O-49): Deformity/Osteoporosis**

Moderators : 游敬孝 Ching-Hsiao Yu 、 吳孟晃 Meng-Huang Wu

No 編號	Time 時間	Title 題目	Authors 作者	Organization 所屬單位	Pages 頁碼
O-37	13:30   13:36	Robotic-assisted surgery in the treatment of adolescent idiopathic scoliosis	<u>李長澤/趙國華</u>	內湖三軍總醫院骨科部	
O-38	13:36   13:42	Comparisons of health-related quality of life (HRQOL) between adolescents and young adults with surgical treatment for idiopathic scoliosis	<u>嚴宏和/陳志偉/胡名孝/楊曙華</u>	國立臺灣大學醫學院附設醫院骨科部	
O-39	13:42   13:48	Interrelation of Cervical Spine and Lumbopelvic Sagittal Alignment in Elderly Women with Osteopenia and Mild Pain: A Comprehensive Study	<u>葉光庭</u> <sup>1/</sup> <u>于載九</u> <sup>1/</sup> <u>陳英和</u> <sup>1/</sup> <u>吳文田</u> <sup>1/</sup> <u>王仁宏</u> <sup>2</sup>	花蓮慈濟醫院骨科部 <sup>1</sup> 、花蓮慈濟醫院研究部 <sup>2</sup>	
O-40	13:48   13:54	A Further Step of Percutaneous Cement Discoplasty Percutaneous Interbody Cementation for Degenerative Lumbar Scoliosis	<u>李孔嘉/謝景祥/廖燈華</u>	嘉義陽明醫院	
O-41	13:54   14:00	New surgical strategy for adult degenerative scoliosis: treat the driver, not the major curve	<u>陳衍仁</u> <sup>1,2,3/</sup> <u>羅達富</u> <sup>1/</sup> <u>陳賢德</u> <sup>2,3/</sup> <u>唐國民</u> <sup>1/</sup> <u>黃揆洲</u> <sup>1</sup>	亞洲大學附屬醫院 <sup>1</sup> 、中國醫藥大學 <sup>2</sup> 、中國醫藥大學附設醫院 <sup>3</sup>	
O-42	14:00   14:06	The surgical outcome of Lenke Type 1 adolescent idiopathic scoliosis patients with radiographic shoulder imbalance	<u>鄭順澤</u> <sup>1/</sup> <u>賴伯亮</u> <sup>1/</sup> <u>葉祐成</u> <sup>1/</sup> <u>陳文哲</u> <sup>2</sup>	林口長庚紀念醫院骨科部脊椎科 <sup>1</sup> 、台北中山醫院骨科 <sup>2</sup>	
O-43	14:06   14:12	Risk Factors of Failed Conservative Treatment in Adjacent Vertebral Fractures Following Vertebroplasty	<u>黃柏豪/黃全敬/陳志偉/胡名孝/楊曙華</u>	台大醫院骨科部	
O-44	14:12   14:18	Is it safe to treat osteoporotic burst thoracolumbar fracture with percutaneous vertebroplasty? A minimum 5-year follow-up study	<u>洪沛毅/林希賢/張明超/姚又誠/周伯鑫/王世典/劉建麟</u>	台北榮民總醫院骨科部脊椎外科	
O-45	14:18 	Clinical Outcomes of Kyphoplasty in 7 years follow-up – Changing indications be inevitable			

	14:24	<u>Ruey-Mo Lin</u> , Jiun-cheng Shiu, Yu-meng Hsiao, Wei-yu Li, Jing-Jing Fang <sup>2</sup> Department of Orthopedic Surgery, AnNan Hospital, China Medical University, Tainan, Taiwan Department of Mechanical Engineering, NCKU, Tainan, Taiwan <sup>2</sup>
O-46	14:24   14:30	Vertebroplasty in Chronic Kidney Disease Patients – A Population-Based Cohort Study from TCVGH-OPC Database. <u>曾聖傑/鄧雅蓮/潘建州/陳昆輝/李政鴻</u> 臺中榮民總醫院骨科部
O-47	14:30   14:36	Outcome and complication following single-staged posterior minimally invasive surgery in adult spinal deformity <u>葉淳/陳賢德/蕭龐軒/林珈郁/李翎溢/陳建聞/賴建穎/曾準/羅元舜/張建鈞/陳衍仁</u> <u>中國醫藥大學附設醫院教學部</u> <sup>1</sup> 、 <u>中國醫藥大學附設醫院骨科部脊椎中心</u> <sup>2</sup> 、 <u>臺中慈濟醫院微創脊椎關節中心</u> <sup>3</sup> 、 <u>亞洲大學附屬醫院脊椎矯正科</u> <sup>4</sup>
O-48	14:36   14:42	The outcome and complication of navigation-assisted posterior pedicle screw instrumentation fusion in adolescent idiopathic scoliosis <u>張寶瓏/陳賢德/陳建聞/林珈郁/蕭龐軒/曾準/羅元舜/李翎溢/賴建穎/張建鈞/陳衍仁</u> <u>中國醫藥大學附設醫院教學部</u> <sup>1</sup> 、 <u>中國醫藥大學附設醫院骨科部脊椎中心</u> <sup>2</sup>
O-49	14:42   14:48	The Surgical Strategy and Risk factors for Distal Junctional Kyphosis after Spinal Reconstruction Surgery in Patients with Osteoporotic Vertebrae <u>Shinji Takahashi</u> Osaka Metropolitan University
	14:48   15:00	綜合討論 Discussion

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15:30-17:00      **Free Paper (O-50~O-61) : Basic/Others**

Moderators : 江長蓉 Chang-Jung Chiang、楊士階 Shih-Chieh Yang

No 編號	Time 時間	Title 題目	Authors 作者	Organization 所屬單位	Pages 頁碼
O-50	15:30   15:36	MicroRNA-29a Mitigates Laminectomy-Induced Spinal Epidural Fibrosis and Gait Dysregulation by Repressing TGF- $\beta$ 1 and IL-6 MicroRNA-29a	<u>巫瑞文</u> /林奕廷/連韋雄/王逢興	高雄長庚醫院骨科部，粒線體醫學研究中心	
O-51	15:36   15:42	Leptin-Induced Oxidative Stress and Inflammation Drive Ligamentum Flavum Hypertrophy in Obesity via ERK and p-38 MAPK Signaling Pathways	<u>莊皓鈞</u> /許祐嘉/劉原輔/許哲嘉/黃敬凱/陳宇聖/林政立	國立成功大學附設醫院骨科部	
O-52	15:42   15:48	Biomechanical Characteristics of Interbody Cementation and Interspinous Process Device for Osteoporotic Patients	<u>李孔嘉</u> <sup>1</sup> /林上智 <sup>2</sup> /徐鈺焜 <sup>2</sup> /陳俊名 <sup>3</sup>	嘉義陽明醫院骨科部 <sup>1</sup> 、臺灣科技大學醫學工程研究所 <sup>2</sup> 、臺灣科技大學台灣高速 3D 列印研究中心 <sup>3</sup>	
O-53	15:48   15:54	An Innovative Tissue-taking Reamer for Percutaneous Cement Discoplasty	<u>李孔嘉</u> <sup>1</sup> /林上智 <sup>2</sup> /徐鈺焜 <sup>2</sup> /陳俊名 <sup>3</sup>	嘉義陽明醫院骨科部 <sup>1</sup> 、臺灣科技大學醫學工程研究所 <sup>2</sup> 、臺灣科技大學台灣高速 3D 列印研究中心 <sup>3</sup>	
O-54	15:54   16:00	Impact of sarcopenia on outcomes following lumbar spine surgery for degenerative disease: An updated systematic review and meta-analysis	<u>陳建聞</u> /羅元舜/林珈郁/曾準/蕭龐軒/賴建穎/李翎溢/陳衍仁/陳賢德	中國醫藥大學附設醫院骨科部脊椎科	
O-55	16:00   16:06	Usefulness of preoperative Short Form-36 Mental Component Score as a prognostic factor in patients who underwent decompression surgery for degenerative lumbar spinal stenosis	<u>Sangbong Ko</u>	Daegu Catholic University Medical Center	
O-56	16:06   16:12	Strong association between visceral fat obesity and occurrence of spinal ligament ossification in asymptomatic subjects: a cross-sectional study	<u>Tsutomu Endo</u> , Soya Mimura, Yoshinao Koike, and Norimasa Iwasaki	Department of Orthopaedic Surgery, Hokkaido University	
O-57	16:12 	Radiologic and clinical outcome comparison between expandable and static cages in open TLIF surgery. Two years retrospective cohort study.			

	16:18	賴大維 <sup>1</sup> /陳柏銘 <sup>3</sup> /古鳴洲 <sup>2,3</sup> /李企桓 <sup>1</sup> /詹政融 <sup>1</sup> /鄭博承 <sup>1</sup> /黃俊憲 <sup>1</sup> /郭歷京 <sup>1,2</sup> 彰濱秀傳醫院 <sup>1</sup> 、彰化秀傳醫院 <sup>2</sup> 、彰化秀傳醫院研發中心 <sup>3</sup>
O-58	16:18   16:24	Analgic effects of sterile water injection for managing low back pain during labor: A systemic review and meta-analysis 周世祥 <sup>1</sup> /黃裕涵 <sup>2</sup> /石佳隴 <sup>3</sup> 大興骨科 <sup>1</sup> 、南投佑民醫院骨科 <sup>2</sup> 、嘉義基督教醫院 <sup>3</sup>
O-59	16:24   16:30	In Vivo Assessment of Calcium Phosphate-Zoledronic Acid Microparticles for Targeted Delivery in Vertebroplasty 黃國淵 <sup>1</sup> /陳昱為 <sup>2</sup> /梁子祐 <sup>2</sup> /賴敏華 <sup>2</sup> /蔡瑞真 <sup>2</sup> /熊彥傑 <sup>2</sup> 成大醫院骨科部 <sup>1</sup> 、國立成功大學臨床藥學與藥物科技研究所 <sup>2</sup>
O-60	16:30   16:36	Nerve transfer for patients experiencing foot drop following nerve root injury caused by malpositioned pedicle screws 李彥緯/高玉憲/于尚文/楊士階/杜元坤 義大醫院骨科部
O-61	16:36   16:42	The active usage of Tc-MEP monitoring reduces the incidence of postoperative paralysis in spinal cord tumor surgeries Hiroki Ushirozako, M.D., Ph.D. <sup>1,19</sup> , Go Yoshida, M.D., Ph.D. <sup>1</sup> , Kenta Kurosu, M.D., Ph.D. <sup>1</sup> , Hiroaki Nakashima, M.D., Ph.D. <sup>2</sup> , Naoki Segi, M.D., Ph.D. <sup>2</sup> , Muneharu Ando, M.D., Ph.D. <sup>3</sup> , Shinichirou Taniguchi, M.D., Ph.D. <sup>3</sup> , Shigenori Kawabata, M.D., Ph.D. <sup>4</sup> , Jun Hashimoto, M.D., Ph.D. <sup>4</sup> , Kei Yamada, M.D., Ph.D. <sup>5</sup> , Shinji Morito, M.D. <sup>5</sup> , Tsukasa Kanchiku, M.D., Ph.D. <sup>6</sup> , Yasushi Fujiwara, M.D., Ph.D. <sup>7</sup> , Hiroshi Iwasaki, M.D., Ph.D. <sup>8</sup> , Hideki Shigematsu, M.D., Ph.D. <sup>9</sup> , Nobuaki Tadokoro, M.D., Ph.D. <sup>10</sup> , Masahito Takahashi, M.D., Ph.D. <sup>11</sup> , Kanichiro Wada, M.D., Ph.D. <sup>12</sup> , Naoya Yamamoto, M.D., Ph.D. <sup>13</sup> , Masahiro Funaba, M.D., Ph.D. <sup>14</sup> , Akimasa Yasuda, M.D., Ph.D. <sup>15</sup> , Tsunenori Takatani, Ph.D. <sup>16</sup> , Kazuyoshi Kobayashi, M.D., Ph.D. <sup>17</sup> , Kazuyoshi Nakanishi, M.D., Ph.D. <sup>18</sup> , Shiro Imagama, M.D., Ph.D. <sup>2</sup> , Yukihiro Matsuyama, M.D., Ph.D. <sup>1</sup> Department of Orthopedic Surgery, Hamamatsu University School of Medicine, Hamamatsu, Japan <sup>1</sup> Department of Orthopaedic Surgery, Nagoya University Graduate School of Medicine, Nagoya, Japan <sup>2</sup> Department of Orthopedic Surgery, Kansai Medical University, Osaka, Japan <sup>3</sup> Department of Orthopedic Surgery, Tokyo Medical and Dental University, Tokyo, Japan <sup>4</sup> Department of Orthopedic Surgery, Kurume University School of Medicine, Kurume, Japan <sup>5</sup> Department of Orthopedic Surgery, Yamaguchi Rosai Hospital, Yamaguchi, Japan <sup>6</sup> Department of Orthopedic Surgery, Hiroshima City North Medical Center Asa Citizens Hospital, Hiroshima, Japan <sup>7</sup> Department of Orthopedic Surgery, Wakayama Medical University, Wakayama, Japan <sup>8</sup>



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綜合討論 Discussion

17:00

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