Programs

DAY1 January 31（Sat.）

8:30～Opening Ceremony

Symposium ① 8:40-10:10 [RoomA]

Joint line obliquity after knee osteotomy
[Chairperson]**Ken Okazaki** (Tokyo Women's Medical University, Japan)
Kang Seung Baik (Seoul Baedro Hospital, Korea)

SY1-1 **Effects of Correction Angle and Joint Line Obliquity on Knee Biomechanics in Open Wedge High Tibial Osteotomy**

Kyoto University, Japan Shinichi Kuriyama

SY1-2 **Postoperative MPTA as the primary determinant of KJLO following AKO**

Fureai Yokohama Hospital, Japan Yasushi Akamatsu

SY1-3 **Joit line obliquity after double level osteotomy**

Hyogo Medical University, Japan Hiroshi Nakayama

SY1-4 **Avoiding Excessive Joint Line Obliquity after High Tibial Osteotomy: The Importance of Preoperative Deformity Analysis.**

Kanazawa Munehiro Hospital, Japan Kenichi Goshima

SY1-5 **What Is the Meaning of the Joint Line Obliquity in Osteotomy?**

Seoul National university Bundang Hospital, Korea Yong Seuk Lee

SY1-6 **Changes of Knee Joint and Ankle Joint Orientations after Medial Opening-wedge High Tibial Osteotomy**

Director, Chang Gung Memorial Hospital, Taiwan Yi-Sheng Chan

Oral Presentation 1 10:15-10:39 [RoomA]

OW vs CW 1
[Chairperson]**Masami Tokunaga** (Fukuoka Orthopaedic Hospital, Japan)
Lee Kong Hwee (Singapore Health Services, Singapore General Hospital, Singapore)

OS1-1 **Hybrid Lateral Closed-Wedge High Tibial Osteotomy Showed Similar Accuracy in Angular Correction and Reduction of Posterior Tibial Slope Compared to Opening-Wedge High Tibial Osteotomy: A Correction Angle Matched Cohort Study**

Pusan National University Hospital, College of Medicine, Korea Seung Joon Rhee

OS1-2 **Differences in Patellofemoral Alignment and Proximal Tibiofibular Joint Changes Between Open Wedge Distal Tibial Osteotomy and Closed Wedge High Tibial Osteotomy for Medial Knee Osteoarthritis**

Juntendo University, Japan Youngji Kim

OS1-3 **Clinical outcomes of hybrid lateral closed wedge high tibial osteotomy in medial osteoarthritic knees with ACL insufficiency**

Nishinomiya Kaisei Hospital, Japan Ryo Ueshima

OS1-4 **Return to Sports after Inverted V-Shaped High Tibial Osteotomy for Severe Medial Knee Osteoarthritis: Comparison with Medial Opening Wedge High Tibial Osteotomy**

Hokkaido University, Japan Taku Ebata

Oral Presentation 2 10:39-11:03 [RoomA]

OW vs CW 2

[Chairperson]**Yasuhiro Takahara** (Nippon Kokan Fukuyama Hospital, Japan)
Yi-Sheng Chan (Chang Gung Memorial Hospital, Taiwan)

OS2-1 **Equivalent Correction Requirements but Different Limb-Length Effects Between OWHTO and HBHTO: Analysis of 99 Virtual Simulations**

Department of Orthopaedic Surgery, Daegu Fatima Hospital, Korea — Jae Hwi Han

OS2-2 **Anterior Closing-Wedge Osteotomy (ACWO) for Revision ACL Reconstruction：Midterm Outcomes in Four Cases**

Nagoya City University, Japan — Kyohei Ota

OS2-3 **Characterizing Japanese valgus knees and simulation of around the knee osteotomy**

Nagoya City University Graduate School of Medical Sciences, Japan — Kensaku Abe

OS2-4 **The Effect of Hybrid Closed Wedge High Tibial Osteotomy on Joint Line Convergence Angle**

Sports & Arthroscopy Center, Hanna Central Hospital, Japan — Yasuyuki Kawaguchi

Invited Lecture 11:05-12:15 [RoomA]

Sophisticated Joint-Preserving Surgical Techniques

[Chairperson]**Kyung Wook Nha** (Department of Orthopaedic Surgery, Inje University Ilsan Paik Hospital, Korea)
Shuichi Matsuda (Graduate School of Medicine and Faculty of Medicine,Kyoto University, Japan)

IL-1 **Rotational osteotomies of the lower limb - an update on diagnostics, normative values, rationals and surgical techniques**

Sana Klinikum Lichtenfels, Germany — Jörg Harrer

IL-2 **Inverted V-shaped High Tibial Osteotomy: A Promising Alternative to Conventional Techniques for Severe Varus Knee OA**

Yagi Orthopaedic Hospital, Japan — Kazunori Yasuda

Sponserd:Newclip Technics Japan K.K.

Luncheon Seminar ① 12:20-13:20 [RoomA]

Current topics in osteotomies around the knee

[Chairperson]**Shuhei Otsuki** (Osaka Medical and Pharmaceutical University, Japan)

LS1-1 **Current topics in high tibial osteotomy**

Yokohama City University, Japan — Shuntaro Nejima

LS1-2 **Osteotomies for knee ligament instability: When, Why and How?**

Department of Orthopaedic Surgery, Meiwa Hospital, Japan — Takehiko Matsushita

Sponserd:OSferion Biomaterials Corp.

Panel Discussion ① 13:20-14:50 [RoomA]

Additional knee osteotomy procedures

[Moderator] **Go Omori** (Niigata University of Health and Welfare, Japan)
Kang-il Kim (Kyung Hee University, Korea)

PD1-1	**Open wedge high tibial osteotomy combined with MMPRT repair and meniscal centralization - Indications, surgical procedure, and its limitations and challenges –**	
	Harue Hospital, Japan	Ryuichi Nakamura
PD1-2	**Clinical Outcomes of High Tibial Osteotomy with ACL Reconstruction in Patients with ACL Deficiency and Medial Osteoarthritis**	
	Kobe University, Japan	Kyohei Nishida
PD1-3	**Additional Cartilage Repair Strategies in Around-the-Knee Osteotomy: From Indications to Clinical Outcomes**	
	Kameda Medical Center, Japan	Yuki Kato
PD1-4	**Treatment of osteoarthritic knee with high tibial osteotomy and allogeneic human umbilical cord blood–derived mesenchymal stem cells combined with hyaluronate hydrogel composite**	
	The Catholic University of Korea, Korea	Seok Jung Kim
PD1-5	**Distal femoral osteotomy with medial patellofemoral ligament reconstruction for recurrent patellar dislocation**	
	Korea University Guro Hospital, Korea	Bae Ji Hoon
PD1-6	**Fresh Femoral Osteochondral Allograft Transplantation Using a Single-Plug Technique for Large Osteochondral Defects of the Knee**	
	Singapore General Hospital, Singapore	Soong Junwei

Afternoon Seminar ① 15:00-16:00 [RoomA]

Characteristics, Indications, and Complications of the Oxford UKA — Why Not Include the Oxford in Your Arsenal?

[Chairperson]**Masataka Deie** (Hiroshima City Hiroshima Citizens Hospital, Japan)

AS1 **Characteristics, Indications, and Complications of the Oxford UKA — Why Not Include the Oxford in Your Arsenal?**

Wajo-kai Sapporo Hospital, Japan Hidetoshi Hamaguchi

Sponserd:Zimmer Biomet G.K.

Special Lecture 16:10-17:10 [RoomA]

Next generation solution for knee osteotomy

[Chairperson]**Takeshi Sawaguchi** (Trauma Reconstruction Center, Shinyurigaoka General Hospital, Japan)
Jia Lin Wu (Taipei Medical University Hospital, Taiwan)

SL-1 **Complication management of osteotomies around the knee**

Hokkaido University, Japan Eiji Kondo

SL-2 **Next Generation Plate for Knee Osteotomy – Continuous Drive for Improvement**

Kyung Hee University, Korea Kang-il Kim

Sponserd:Johnson & Johnson

Evening Seminar 17:15-17:45 [RoomA]

Next generation solution for knee osteotomy

[Chairperson]**Masahiko Ikeuchi** (Kochi Medical School, Japan)

ES-1 Patient-Specific Instrumentation in Knee Preservation Osteotomies

Taipei Medical University Hospita, Taiwanl Jia Lin Wu

ES-2 1st line conservative treatment of MM root tear and 2nd line operation

Department of Orthopaedic Surgery, Inje University Ilsan Paik Hospital, Korea Kyung Wook Nha

Oral Presentation 3 8:40-9:10 [RoomB]

AKO with additional surgery 1

[Chairperson]**Keisuke Kita** (JCHO Osaka Hospital, Japan)
Sim Jae ang (Gachon University. Gil Medical Center, Incheon, Korea)

OS3-1 Change of the lateral joint space width is similar, but improvement of knee score is greater in patients with a non-discoid than in those with a discoid lateral meniscus after open wedge high tibial osteotomy

Department of Orthopaedic Surgery, Nowon Eulji Medical Center, Seoul, Korea Nam-Hong Choi

OS3-2 Remodified Mason–Allen suture technique concomitant with high tibial osteotomy for medial meniscus posterior root tears improved the healing of the repaired root and suppressed osteoarthritis progression

Chungnam national university hospital, Korea Park Young Cheol

OS3-3 Comparison of functional outcomes and 15 years survivorship of Medial Opening Wedge High Tibial Osteotomy in kissing vs non kissing lesion patients

AIIMS Jodhpur, Rajasthan, India Ashraf Jamal

OS3-4 Pullout Repair with Double-Plate Fixation via Inverted High Tibial Osteotomy for Medial Meniscus Posterior Root Tear with Severe Varus Tibial Deformity

Department of Orthopaedic Surgery, Okayama University Hospital, Okayama, Japan Toshiki Kohara

OS3-5 High Tibial Osteotomy with Individualized Alignment and Meniscal Centralization Improves KOOS Sports and Recreation and Cartilage Status Compared to Conventional Fujisawa-Point Alignment without centralization: A Propensity Score Matching Study.

Department of orthopaedic surgery, Sapporo Medical University School of Medicine, Japan Kazushi Horita

Oral Presentation 4 9:10-9:40 [RoomB]

AKO with additional surgery 2

[Chairperson] **Yasuyuki Kawaguchi** (Hanna Central Hospital, Japan)
Kunihiko Hiramatsu (Hiramatsu Orthopedic Clinic Namba Knee & Sports Clinic, Japan)

OS4-1 **Repair of medial meniscus posterior root tear using all-inside meniscal repair device is not necessary during open wedge HTO**

Kyungpook National University Hospital, Korea — Hee-June Kim

OS4-2 **Leave It or Repair It? Comparison of the Arthroscopic and Clinical Outcomes after High Tibial Osteotomy with or without Medial Meniscus Posterior Root Repair**

Department of Orthopaedics, Taipei Medical University Hospital, Taiwan — Ying-Fong Su

OS4-3 **Long-Term (>10-Year) Outcomes of High Tibial Osteotomy Versus Medial Meniscus Posterior Root Repair in Degenerative Knees with MMPRT's**

Datta meghe medical college, Wardha, India — Rahul Singh

OS4-4 **High tibial osteotomy reduces the distraction force at the tear site in medial meniscus tear of posterior segment: A porcine biomechanical study**

Department of Orthopaedic Surgery, Sapporo Medical University School of Medicine, Japan — Kodai Hamaoka

OS4-5 **Time-Dependent Anchor Hole Expansion May Associate With Meniscal Extrusion After Open-Wedge High Tibial Osteotomy Combined With Medial Meniscus Posterior Root Tear Repair and Meniscal Centralization**

1)Department of Orthopedic Surgery, Joint Preservation and Sports Orthopedic Center, Harue Hospital, Japan
2)Department of Orthopedic Surgery, Asahikawa Medical University, Japan — Yohei Maeda

Oral Presentation 5 9:40-10:10 [RoomB]

CWHTO and TCVO 1

[Chairperson] **Akihiko Yonekura** (Nagasaki University Hospital, Japan)
Yukinobu Nishii (Chikamori Hospital, Japan)

OS5-1 **Comparative Analysis of Bone Resection Volume and Lateral Overhang in Four Closed-Wedge High Tibial Osteotomy Techniques**

Pusan National University Hospital, College of Medicine, Pusan National University, Korea — Seok Jin Jung

OS5-2 **Peroneal Palsy and Nonunion After Closing Wedge High Tibial Osteotomy: Does Surgical Technique Matter?**

ESIC Model Hospital, India — Pankaj sainin kumar

OS5-3 **Development and Clinical Evaluation of a Flexible Spring Plate Insole to Prevent Postoperative Deformity Following HCWHTO: Effects on Lateral Tibial Acceleration and Calcaneal Pronation**

Department of Rehabilitation, Yokohama Sekishinkai Hospital, Japan — Mizuki Saito

OS5-4 **Clinical Significance of Fibular Management in Closed-Wedge High Tibial Osteotomy: Comparison Between Conventional Dissection and AOOL Techniques**

Okayama Kyokuto Hospital, Japan — Masamichi Yokoyama

OS5-5 **Extension-Type Checkrein Deformity of the Hallux Following Closed-Wedge High Tibial Osteotomy: A Case Report**

Wakamatsu hospital of University of Occupational and Environmental Health Japan, Japan — Shinichiro Takada

Oral Presentation 6 10:10-10:40 [RoomB]

CWHTO and TCVO 2

[Chairperson] **Umito Kuwashima** (Tokyo Women's Medical University , Japan)
Kim Seok Jung (Uijeongbu St. Mary's Hospital The Catholic University)

OS6-1 **Two-year Outcomes of Tibial-Sided Osteotomy for Fibula Untethering in Lateral Close-Wedge High Tibial Osteotomy**

Seoul St. Mary's Hospital, The Catholic University of Korea — Yong In

OS6-2 **Usefulness of Hybrid Closed Wedge High Tibial Osteotomy against ACL Deficiency, Increased Posterior Tibial Slope ,and Osteoarthritis.**

Department of Orhthopaedic Surgery, Yaesekai Doujin Hospital, Japan — Tomoyuki Shimakawa

OS6-3 **The medial collateral ligament and osteophytes affect medial meniscus extrusion after CWHTO**

Department of Orthopaedic Surgery, Faculty of Medicine, Fukuoka University, Japan — Tetsuro Ishimatsu

OS6-4 **A study of knee joint instability and intra-articular changes before and after Tibial Condylar Valgus Osteotomy (TCVO) for osteoarthritis of the knee**

Chikamori Hospital, Japan — Yukinobu Nishii

OS6-5 **Tibial condylar valgus osteotomy (TCVO): Surgical technique and clinical results for knee osteoarthritis with varus deformity**

Nagasaki Yurino Hospital , The institute for Foot &Ankle reconstruction, Japan — Tsukasa Teramoto

Oral Presentation 7 10:40-11:10 [RoomB]

AKO operative technique

[Chairperson] **Akira Maeyama** (Fukuoka University Hospital, Japan)
Lee yong Seuk (Seoul National University, Bundang Hospital, Korea)

OS7-1 **Where is the optimal starting point in medial open wedge high tibial osteotomy?**
- 3D tibia model finite element study-

Inje University Haeundae Paik Hospital, Korea — Sang Won Moon

OS7-2 **The Effect of Bioabsorbable Fillers on Optimizing Screw Fixation and Enhancing Mechanical Stability in High Tibial Osteotomy**

1) Department of Orthopaedics, Taipei Medical University Hospital, Taiwan
2) Department of Orthopedics, School of Medicine, College of Medicine, Taipei Medical University, Taiwan — Jia-Lin Wu

OS7-3 **Proximal Fibular Osteotomy for Medial Compartment Knee Osteoarthritis: Two-Year Functional and Biomechanical Outcomes**

1) Singapore Knee Preservation Society, Singapore
2) Department of Orthopaedic Surgery, Singapore General Hospital, Singapore — Zhen Jonathan Liang

OS7-4 **Application of Custom Guide-Assisted Corrective Osteotomy for Lower Limb Deformities: A Case Series.**

Department of Sports Medical Biomechanics, The University of Osaka Graduate School of Medicine, Japan — Akira Tsujii

OS7-5 **Preoperative Subchondral Bone Density Distribution Assessed by CT-Osteoabsorptiometry Predicts Clinical Outcomes After High Tibial Osteotomy**

Hokkaido University, Japan — Koji Iwasaki

Oral Presentation 8 11:10-11:46 [RoomB]

AKO coronal alignment 1

[Chairperson]**Koji Iwasaki** (Hokkaido University, Japan)
Jia-Lin Wu (Taipei Medical University Hospital, Taiwan)

OS8-1 **Constitutional Alignment is Related to Serial Alignment Change after Opening-Wedge High Tibial Osteotomy**

Seoul National University Bundang Hospital, Korea — Yong Seuk Lee

OS8-2 **Medial Opening Wedge High Tibial Osteotomy - do coronal plane phenotypes matter?**

Department of Orthopaedic Surgery, Singapore General Hospital, Singapore — Teo Shao Jin

OS8-3 **Improved Coronal Alignment Using the Preemptive Joint Line Convergence Angle Compensation Method in Medial Open Wedge High Tibial Osteotomy: A Retrospective Propensity Score-Matched Analysis**

Ewha Womans University, Korea — Junwoo Byun

OS8-4 **Effect of Joint-Line Obliquity on OA Progression after OWHTO**

Marunouchi Hospital, Japan — Keiji Tensho

OS8-5 **Tibial morphological variations reveal medial proximal tibial angle discrepancies in Japanese patients: three-type classification for high tibial osteotomy**

Department of Radiological Technology, Kanazawa Munehiro Hospital, Japan — Etsuko Tabata

OS8-6 **Investigation of Target Alignment in High Tibial Osteotomy According to the Severity of Osteoarthritis**

Tokyo Women's Medical University, Japan — Junya Itou

Oral Presentation 9 11:46-12:16 [RoomB]

AKO coronal alignment 2

[Chairperson]**Moritaka Maruyama** (Iwate Medical University, Japan)
In Yong (Seoul St. Mary's Hospital, The Catholic University, Korea)

OS9-1 **Supine teleradiogram provides the most accurate preoperative planning for opening-wedge high tibial osteotomy: A comparative analysis of standing, supine, and supine valgus-stress imaging**

Seoul National University College of Medicine, Seoul, Korea — Geunwu Gimm

OS9-2 **Predicting the Correction Angle in Medial Open-Wedge High Tibial Osteotomies: The Role of Preoperative Medial Proximal Tibial Angle**

1) International Ph.D. Program in Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan
2) Department of Orthopedic and Plastic Surgery, Hue Central Hospital, Hue City, Vietnam — Thanh Sang Nguyen

OS9-3 **Three-dimensional dynamic alignment analysis during gait following high tibial osteotomy using a 3D gait and alignment measurement system**

Department of Orthopaedic Surgery, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan — Yutaka Fujita

OS9-4 **Evaluation of the indication and postoperative optimal alignment of opening-wedge high tibial osteotomy by preoperative joint line convergence angle**

1) Department of Orthopedic Surgery, Hirosaki General Medical Center, Japan
2) Department of Orthopedic Surgery, Hirosaki University Graduate School of Medicine, Japan — Takahiro Tsushima

OS9-5 **Detection of Lateral Hinge Fractures After Medial Closing Wedge Distal Femoral Osteotomy: Computed Tomography Versus Plain Radiography**

Department of Orthopedic Surgery, Korea University Ansan Hospital, Korea University College of Medicine, Korea — Hyung Jun Park

Luncheon Seminar ② 12:20-13:20 [RoomB]

[Chairperson]**Masami Tokunaga** (Fukuoka Orthopaedic Hospital, Japan)

LS2 **Analysis of whole limb alignment using hip-to-calcaneus radiograph**

St. Marianna University School of Medicine, Japan — Naoki Haraguchi

Sponserd:AUSPICIOUS Corp.

Oral Presentation 10 13:20-13:56 [RoomB]

AKO operative technique

[Chairperson]**Yukio Akasaki** (Kyushu University Hospital, Japan)
Yuzo Yamada (Yao municipal hospital, Japan)

OS10-1 **Biomechanical Evaluation of a Newly Designed Locking Plate for Opening-Wedge High Tibial Osteotomy: Stress Around D-hole in the Presence of Lateral Hinge Fracture**

Department of Orthopedic Surgery, Korea University Ansan Hospital, Korea University College of Medicine, Korea — Hyung Jun Park

OS10-2 **Patient-Specific Instrumentation for Medial Open Wedge High Tibial Osteotomy Results in High Accuracy of Correction and Cartilage Regeneration: A Second Look Arthroscopy Study**

1) International Ph.D. Program in Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan
2) Department of Orthopedic and Plastic Surgery, Hue Central Hospital, Hue City, Vietnam — Thanh Sang Nguyen

OS10-3 **Anterior popliteus transtibial tuberosity osteotomy: a novel technique for knee osteoarthritis**

The Affiliated Hospital of Guizhou Medical University, China — Chuan Ye

OS10-4 **Clinical Significance of an Additional Crossed Screw in Medial Opening-Wedge High Tibial Osteotomy**

Department of Orthopedic Surgery, Division of Vital Care and Reconstructive Medicine, Osaka Medical and Pharmaceutical University, Japan — Chuji Hirota

OS10-5 **Mid-term Results of ACL Reconstruction Combined with Medial Wedge-Opening High Tibial Osteotomy (OWHTO) for Post-Traumatic Osteoarthritis following ACL injury**

Koshigaya Municipal Hospital, Department of Orthopaedic Surgery, Japan — Hiroki Ueda

OS10-6 **Uniplanar Open Wedge High Tibial Osteotomy : Surgical Techniques**

Department of Orthopedic Surgery, W Hospital, Daegu, Korea — Sungjung Kim

Oral Presentation 11 14:00-14:18 [RoomB]

AKO infection

[Chairperson] **Tetsuro Ishimatsu** (Fukuoka University, Japan)
Jia-Lin Wu (Taipei Medical University Hospital, Taiwan)

OS11-1 **Infection Risk Following Medial Open-Wedge High Tibial Osteotomy: Does the Type of Artificial Bone Graft Matter?**

Linkou Chang Gung Memorial Hospital, Taiwan Shiny Chih-Hsuan Wu

OS11-2 **Olanexidine gluconate versus povidone-iodine for the prevention of surgical-site infection in osteotomy around the knee: a retrospective study**

Department of Orthopaedic Surgery, Nishinomiya Kaisei Hospital, Japan Hiroki Miya

OS11-3 **One-Year Outcome of Postoperative Infection after Knee Osteotomy**

Department of Orhthopaedic Surgery, Yaesekai Doujin Hospital, Japan Yukiko Shinohara

Oral Presentation 12 14:18-14:54 [RoomB]

AKO Union

[Chairperson] **Yuji Arai** (Kyoto Prefectural University of Medicine, Japan)
Yoo Jae Doo (Ewha Womans University,Mokdong Hospital, Seoul, Korea)

OS12-1 **Gap Volume Based on CT Measurement Is a Strong Risk Factor for Delayed Gap Healing After OWHTO**

Kyoto University, Japan Sayako Sakai

OS12-2 **Trial to Promote Bone Healing by Highly Osteoinductive Artificial Bone in MOWDTO.**

Hiramatsu Orthopedic Clinic Namba Knee & Sports Clinic, Japan Kunihiko Hiramatsu

OS12-3 **Bicortical Distal Screw Fixation Enhances Union and Reduces Correction Loss in Medial Open-Wedge High Tibial Osteotomy**

Tokyo Women's Medical University, Japan Shunya Otnai

OS12-4 **Early Completion of Radiographic Bone Union with Rare Complications After Inverted V-shaped HTO Fixed with a Locking Compression Plate**

Department of Orthopaedic Surgery, Tomakomai Nisshou Hospital, Tomakomai, Japan Koji Yabuuchi

OS12-5 **Optimized Additional Screw Technique to Enhance Early Bone Union in Hybrid Closed-Wedge High Tibial Osteotomy: A Retrospective Comparative Study**

Department of Orthopaedic Surgery, Fukuyama City Hospital, Hiroshima, Japan Yukimasa Okada

OS12-6 **Risk Factors for Delayed Bone Union After OWHTO**

Osaka Medical and Pharmaceutical University, Japan Kuniaki Ikeda

Afternoon Seminar ② 15:00-16:00 [RoomB]

Meniscus Function Reconstruction: Surgical Innovations

[Chairperson] **Ken Nakata** (Department of Health and Sport Sciences, Graduate School of Medicine, Osaka University, Japan)

Hyuk Soo Han (Seoul National University Hospital, Korea)

AS2-1 **New surgical technique to reinforce the function of the meniscus -Meniscal circumferential fiber augmentation-**

Dept. of Orthopaedic sports medicin, JCHO Osaka Hospital, Japan Keisuke Kita

AS2-2 **Dual-Tunnel Pullout Repair for medial meniscus posterior root tear: Unpublished Insights and Common Pitfalls**

Okayama University hospital, Japan Yuki Okazaki

Sponserd:Stryker Japan

Oral Presentation 13 16:00-16:36 [RoomB]

UKA & TKA

[Chairperson] **Yuji Yamamoto** (Hakodate Municipal Hospital, Japan)

Choi Nam Hong (Eulji Medical Center, Seoul, Korea)

OS13-1 **Effect of MOWHTO Versus UKA on Mental Health: A comparative study with propensity score matched analysis**

Singapore General Hospital, Singapore Ashton Tan

OS13-2 **An Extended-Release Sebacoyl Dinalbuphine Ester for Perioperative Pain Management in Improving Enhanced Recovery After Surgery in Total Knee Arthroplasty**

Department of General Medicine, Wan Fang Hospital, Taipei Medical University, Taipei, Taiwan Ching Lu

OS13-3 **Analysis of factors affecting conversion to total knee arthroplasty after open wedge high tibial osteotomy**

Department of Orthopaedic Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan Yuta Fujii

OS13-4 **Temporal Changes in Joint Awareness After Medial UKA and Opening-Wedge High Tibial Osteotomy: A Propensity-Matched Comparative Study**

Department of Orthopedic Surgery, Tokyo Women's Medical University, Japan Masafumi Itoh

OS13-5 **Evaluating OW-HTO and UKA in patients in their 60s: A comparative analysis**

Department of Orthopaedic Surgery, Faculty of medicine, Fukuoka University, Japan Akira Maeyama

OS13-6 **Impact of Preoperative Limb Alignment and Deformity on Postoperative Limb Alignment in Unicompartmental Knee Arthroplasty**

Department of Orthopaedic Surgery, Osaka Medical and Pharmaceutical University, Japan Takashi Ishitani

Oral Presentation 14 16:40-17:16 [RoomB]

DFO and OW PF joint 1

[Chairperson] **Kenichi Goshima** (Kanazawa Munehiro Hospital, Japan)
Kim Sung Jung (W hospital Daegue, Korea)

OS14-1 **Alignment changes after open-wedge high tibial osteotomy result in oloading in the patellofemoral joint: a SPECT/CT analysis**

Department of Orthopaedics Surgery, Gil Medical Center, Gachon University College of Medicine, Incheon, Korea — Jae Ang Sim

OS14-2 **Medial Closed Wedge Distal Femoral Osteotomy for Osteonecrosis of the Lateral Femoral Condyle with Valgus Deformity: A Case Series**

Department of Orthopaedic Surgery School of Medicine Iwate Medical University, Japan — Moritaka Maruyama

OS14-3 **A Case of Femoral Fracture after Implant Removal Following Distal Femoral Osteotomy**

Sapporo Medical University Hospital, Japan — Maika Yamamoto

OS14-4 **Anterior–Posterior Hinge Width and Hinge Fracture Predict Delayed Union after Medial Closed-Wedge Distal Femoral Osteotomy**

Akiyama Clinic, Japan — Kei Osano

OS14-5 **The influence of hinge width ratio on risk of intraoperative hinge fracture in MCWDFO: A finite element analysis**

Department of Orthopaedic Surgery, Kobe University Graduate School of Medicine, Japan — Atsuki Tanaka

OS14-6 **Intra-articular Injection of Mesenchymal Stem Cells After High Tibial Osteotomy in Osteoarthritic Knee: Two-Year Follow-up of Randomized Control Trial**

Kyung Hee Universtiy Hospital at Gangdong, Korea — Hyobeom Lee

Oral Presentation 15 17:20-17:44 [RoomB]

DFO and OW PF joint 2

[Chairperson] **Satomi Abe** (Asahikawa Medical University, Japan)
Sohn Oog Jin (Yeungnam University, Daegu, Korea)

OS15-1 **Optimizing Plate Position for Biomechanical Stability in Medial Closing-Wedge Distal Femoral Osteotomy**

Department of Orthopedic Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Korea — Hyun-Soo Moon

OS15-2 **Differences in Lower Limb Mechanical Axis Between Supine and Standing Positions Before and After Medial Closed-Wedge Distal Femoral Osteotomy**

Department of Orthopedic Surgery, Kobe University Graduate School of Medicine, Kobe, Japan — Ryota Shimozono

OS15-3 **Preoperative Predictors of Patellofemoral Osteoarthritis Progression After Open-Wedge High Tibial Osteotomy: A Retrospective Cohort Study**

Yao Municipal Hospital, Japan — Yuzo Yamada

OS15-4 **Comprehensive Realignment through Medio-Antero-Distal Tibial Tuberosity Osteotomy (MADD) for Multifactorial Patellar Instability**

Nara Medical University, Department of Sports Medicine, Japan — Munehiro Ogawa

Case Study Discussion 18:30-19:00［DejimaWharf］

［ Chairperson ］**Akihiko Yonekura** (Nagasaki University Hospital, Japan)

CS-1	Sana Klinikum Lichtenfels, Germany	Jörg Harrer
CS-2	Murup Hospital, Korea	Woon Hwa Jung
CS-3	Daegu Fatima Hospital, Korea	Han Jae Hwi

DAY2 February 1（Sun.）

DEJIMA Seminar 8:30-9:30 [RoomA]

Breaking New Ground in Knee Osteoarthritis: Next-Generation Approaches in Osteotomy and Alignment

[Chairperson]**Norimasa Nakamura** (Osaka Health Science University, Japan)
Nobuo Adachi (Department of Orthopaedic Surgery,Graduate School of Biomedical and Health Sciences,Hiroshima University, Japan)

DS-1 **Pitfalls and Technical Tips in Around Knee Osteotomy Learned from Early Experience**

Yokohama Minami Kyosai Hospital, Japan — Shu Takagawa

DS-2 **Early stage knee osteoarthritis and medial meniscus extrusion- treatment according to lower limb alignment**

Department of Orthopaedics, Juntendo University, Faculty of Medicine, Japan — Mitsuaki Kubota

Sponserd: CellSeed Inc.

Symposium ② 9:30-11:10 [RoomA]

Knee osteotomy technique master session

[Chairperson] **Takenori Akiyama** (Akiyama Clinic, Japan)
Jörg Harrer (Sana Klinikum Lichtenfels,Germany)

SY2-1 **Knack and Pitfalls of Hybrid closed wedge high tibial osteotomy (HCWHTO)**

Department of joint surgery, Mikiyukai regenerative medicine center / Department of orthopedic surgery, Nara Medical University, Japan — Yasuaki Tohma

SY2-2 **Distal femoral osteotomy for valgus knees**

Meiwa Hospital, Japan — Takehiko Matsushita

SY2-3 **Indications, surgical technique, and clinical outcomes of tibial condylar valgus osteotomy**

Nagasaki University Hospital, Japan — Yusuke Nakazoe

SY2-4 **Next-Generation Osteotomies around the knee and Elmslie Trillat Procedure-Like OWDTO**

Department of Orthopaedic Surgery, Gifu University Graduate School of Medicine, Japan — Hiroyasu Ogawa

SY2-5 **Opposite Lag Screw as an Adjunct in High Tibial Osteotomy with Lateral Hinge Fracture: Improved Union and Correction Maintenance.**

Taipei Veterans General Hospital, Taipei, Taiwan — Jesse Chieh-Szu, Yang

SY2-6 **Hyaline-Like Cartilage Regeneration after High Tibial Osteotomy with Microfracture and BMAC in Advanced Knee Osteoarthritis: A Prospective Clinical Study**

Chung Shan Medical University, Taiwan — Chien Sheng Lo

Oral Presentation 16 11:00-11:30 [RoomA]

AKO and cartilage 1

[Chairperson] **Ken Kumagai** (Yokohama City University Medical Center)
Tomoki Ohori (The University of Osaka)

OS16-1 **The Presence or Absence of Cartilage Regeneration Following Medial Open-Wedge High Tibial Osteotomy Does Not Predict Long-term Outcomes**

Hallym University Sacred Heart Hospital Jun-Ho Kim

OS16-2 **Arthroscopic Microdrilling for Full-thickness Trochlear Cartilage Defects in Patients Undergoing High Tibial Osteotomy Confers Improved Cartilage Status at 1 year and Rate of Minimal Clinically Important Difference at Short-term Follow-up.**

Severance Hospital, Yonsei University College of Medicine Se-Han Jung

OS16-3 **Adding Cartilage Repair to High Tibial Osteotomy Does Not Improve 10-Year Clinical Outcomes: A Comparative Study of HTO Alone, with Micro-Drilling, and with OATS**

Kamineni Hospital, India Saipramod Yadlapalli

OS16-4 **Mid-Term MRI Assessment of Meniscal and Cartilage Changes After Medial Opening-Wedge High Tibial Osteotomy**

Asahikawa Medical University, Japan Satomi Abe

OS16-5 **Combined autologous chondrocyte implantation and high tibial osteotomy for large cartilage lesions in elderly patients with spontaneous osteonecrosis of the knee**

Department of Orthopaedic Surgery, Graduate School of Medicine, Yokohama City University, Japan Ken Kumagai

Oral Presentation 17 11:35-12:05 [RoomA]

AKO and cartilage 2

[Chairperson] **Tomoki Ohori** (The University of Osaka, Japan)
Kim Sung Hwan (Severance Hospital, Yonsei University Seoul, Korea)

OS17-1 **Treatment of osteoarthritic knee with high tibial osteotomy and allogeneic human umbilical cord blood–derived mesenchymal stem cells combined with hyaluronate hydrogel composite**

The Catholic University of Korea, Korea Seok Jung Kim

OS17-2 **Long-term outcomes after autologous chondrocyte cell-sheet transplantation combined with high tibial osteotomy for osteoarthritis of the knee**

Tokai University School of Medicine, Department of Orthopaedic Surgery, Surgical Science, Japan Kosuke Hamahashi

OS17-3 **Incidence and Clinical Significance of Cartilage Hypertrophy After Costal Chondrocyte-Derived Pellet-Type Autologous Chondrocyte Implantation: A Preliminary MRI-Based Study**

Severance Hospital, Yonsei University College of Medicine, Korea jusung lee

OS17-4 **Changes in MRI Findings Following High Tibial Osteotomy in Patients with Knee Osteoarthritis**

Department of Orthopadic Surgery ,Kochi Medical School, Japan Syo Deguchi

OS17-5 **Mid-term Clinical Outcomes of Around the Knee Osteotomy with Iliac Bone Grafting for Large Osteochondral Defect in the Weight-Bearing Region**

Department of Orthopaedic Surgery, Tokyo Teishin Hospital, Japan Tomofumi Kage

Oral Presentation 18 12:10-12:52 [RoomA]

Hinge fracture and ankle

[Chairperson] **Shinichi Kuriyama** (Kyoto University, Japan)
Lee Kong Hwee (Singapore Health Services, Singapore General Hospital, Singapore)

OS18-1 **Obesity does not negatively impact early clinical outcomes of medial opening high tibial osteotomy in the Asian Population**

Singapore General Hospital, Singapore — Don Koh

OS18-2 **Optimizing Lateral Hinge Stability in Medial Open-Wedge High Tibial Osteotomy: The Role of Hinge Hole and Protective K-Wire**

Department of Education, Chang Gung Memorial Hospital Linkou, Taoyuan City, Taiwan /College of Medicine, Chang Gung University, Taoyuan, Taiwan — En-Chia Mai

OS18-3 **Risk and Protective Factors for Loss of Correction in Patients with Lateral Hinge Fracture After Medial Opening-Wedge High Tibial Osteotomy**

Department of Orthopedics and Traumatology, Taipei Veterans General Hospital, Taipei, Taiwan — Jian-Jiun Chen

OS18-4 **Underestimated incidence of acute lateral hinge fractures in medial opening wedge high tibial osteotomy: The role of MRI in early detection**

Konaseema Institute of Medical Sciences and Research Foundation, Amalapuram, Andhra Pradesh (State) India — BALABADRA SURYAMANIKANTA

OS18-5 **MRI-Based Classification of Lateral Hinge Fractures: A Timely Necessity**

BJ Government Medical College, India — Minish Katkar

OS18-6 **Distal Tibial Oblique Osteotomy for Stage 4 Ankle Osteoarthritis**

Department of Orthopaedic Surgery, Japanese Red Cross Nagasaki Genbaku Hospital, Japan — Shota Harada

OS18-7 **Distal Tibial Oblique Osteotomy (DTOO) : Surgical technique and clinical varus ankle osteoarthritis**

Sasebo City General Hospital, Department of Orthopedic Surgery, Japan — Yoshimasa Teramoto

Oral Presentation 19 8:30-8:54 [RoomB]

DTO

[Chairperson] **Hiroyasu Ogawa** (Gifu University Graduate School of Medicine)
Yoo Jae Doo (Ewha Womans University,Mokdong Hospital, Seoul,)

OS19-1 **Open wedge proximal tibial osteotomy with tibial tubercle osteotomy for severe varus deformity of tibia**

Yokohama Sekishinkai hospital, Japan — Naoki Yamada

OS19-2 **Cancellous Autograft Transfer from Screw-hole (CATS) to the opening gap for early bone healing in Interlocking OW-DTO — A novel, previously unrecognized donor-source**

Kyushu University Hospital, Japan — Yukio Akasaki

OS19-3 **Evaluation of Bone Union after Open-Wedge Distal Tibial Tubercle Osteotomy Using a Newly Designed Plate**

Department of Orthopedic Surgery, Gifu University Graduate School of Medicine, Japan — Yutaka Nakamura

OS19-4 **Takeuchi type1 lateral hinge fractures delay gap filling after Distal Tuberosity arc Osteotomy:A Tomosynthesis study**

Matsumoto Medical Center, Japan — Kosuke Fukuzawa

Oral Presentation 20 8:54-9:30 [RoomB]

DLO

[Chairperson] **Keiji Tensho** (Marunouchi Hospital , Japan)
Jung Woon Hwa (Murup Hospital, Masan, Korea)

OS20-1 **Long-term Comparison of Opening Wedge High Tibial Osteotomy and Double Level Osteotomy for Large Varus Knee Deformities: A Retrospective Cohort Study of Functional Outcomes, Complications,and Survival Rates**

Anil Neerukonda Hospital, NRI Institute of Medical Sciences, Visakhapatnam, Andhra Pradesh, India — Hari Kishore

OS20-2 **Comparison of surgical accuracy in double level osteotomy based on the use of intraoperative alignment rods**

Department of Orthopaedic Surgery, Yokohama City University, Japan — Kei Takahashi

OS20-3 **Radiological evaluation of ankle alignment change after double level osteotomy for varus knee osteoarthritis**

Department of Orthopaedic Surgery, Yokohama City University, Japan — Kohei Hamasaki

OS20-4 **Clinical Outcomes of Double Level Osteotomy (DLO) in Our Institution**

Japan Kokan Fukuyama Hospital, Japan — Masayuki Kawabe

OS20-5 **Mid-term outcomes following double level osteotomy in patients with severe varus deformity and advanced knee osteoarthritis.**

Hyogo Medical University, Japan — Shintaro Onishi

OS20-6 **Clinical outcomes of double-level osteotomy combining Hybrid CWHTO and medial open wedge DFO for varus osteoarthritis with extension deficit**

Department of Orthopedic Surgery, Sapporo Medical School of Medicine, Japan — Yasutoshi Ikeda

Oral Presentation 21 9:35-10:11 [RoomB]

Cartilage and anatomy

[Chairperson] **Kazunori Shimomura** (Kansai University of Welfare Sciences, Japan)
Don Koh (Singapore General Hospital, Singapore)

OS21-1 **Superficial MCL Proximal Detachment is an Etiology of Medial Knee Laxity in Osteoarthritis**

AIIMS Jodhpur, Rajasthan, India — Abbas Bhatia

OS21-2 **Abnormal Branching of the Anterior Tibial Artery**

Department of Orthopaedic Surgery, Yokohama Brain and Spine Center, Japan — Takuro Harada

OS21-3 **Dynamic Positional Changes of Knee Soft Tissues During Flexion and Extension: A Retrospective Open MRI study**

Okayama University, Japan — Tsubasa Hasegawa

OS21-4 **Intra-Articular Mesenchymal Stem Cell Injection for Knee Osteoarthritis: A Narrative Review of Clinical and MRI-Based Morphologic Outcomes**

1)Department of Rehabilitation, Kansai University of Welfare Sciences, Osaka, Japan.
2) Department of Orthopaedic Surgery, Osaka University Graduate School of Medicine, Osaka, Japan. — Kazunori Shimomura

OS21-5 **Correlation Between Plate Selection and Risk of Lateral Neurovascular Bundle Injury in Medial Open Wedge High Tibial Osteotomy**

Department of Orthopaedic surgery, Tokyo Women's Medical University, Japan — Umito Kuwashima

OS21-6 **Magnetic resonance angiography-assisted visualization of blood flow to the bone tunnel wall and the tendon graft into the bone tunnel after posterior cruciate ligament reconstruction**

Marutamachi Hospital, Japan — Hitoshi Kanamura

Panel Discussion ② 10:20-11:25 [RoomB]

Rehabilitation Strategies for Return to Early Functional and Social Activities

[Moderator] **Ryo Nagashima** (Department of Rehabilitation, Yokohama Sekishinkai Hospital, Japan)
Daisuke Fukuhara (Nipponkoukan Hospital, Japan)

PD2-1	**Knee extensor strength in knee osteotomy, particularly open-wedge high tibial osteotomy**	
	Kobe University Graduate School of Health Sciences, Japan	Yuya Ueda
PD2-2	**Evaluation of Functional Recovery for Safe Return to Sports Following Knee Osteotomy**	
	Osaka Kaisei Hospital, Japan	Satoshi Higashiyama
PD2-3	**Evaluation of Functional Recovery for Safe Return to Sports Following Knee Osteotomy**	
	1).Department of Rehabilitation Medicine, Kinjo univercity, hakusan, Japan 2).Department of Rehabilitation Medicine, Kanazawa Munehiro Hospital, Kanazawa, Japan	Toshiki Azuma
PD2-4	**Efforts to Improve High Tibial Osteotomy Outcomes Through an Interprofessional Collaboration-Based Weight Management Program**	
	Department of Rehabilitation, Harue Hospital, Japan	Ryo Matsugi
PD2-5	**Multi-Segment Biomechanical Analysis After High Tibial Osteotomy and Distal Tuberosity Tibial Osteotomy**	
	Department of Rehabilitation, Yokohama Sekishinkai Hospital, Japan	Ryo Nagashima

Oral Presentation 22 11:25-11:55 [RoomB]

Meniscus

[Chairperson] **Mitsuaki Kubota** (Juntendo University, Japan)
Chien-Sheng Lo (Chung Shan Medical University, Taiwan)

OS22-1	**Game-Changing Technology for Meniscus Repair: Injectable ChitHCl-DDA tissue adhesive with high adhesive strength and biocompatibility for torn meniscus repair and regeneration**	
	1)Department of Orthopaedics, Taipei Medical University Hospital, Taiwan 2) Department of Orthopedics, School of Medicine, College of Medicine, Taipei Medical University, Taiwan	Jia-Lin Wu
OS22-2	**Optimal Target Alignment to Restore Medial Contact Pressure in Medial Meniscus Posterior Root Tears**	
	Fowler Kennedy Sports Medicine Clinic / Okayama University Hospital, Japan	Takaaki Hiranaka
OS22-3	**Intra-articular migration of the tibial bone plug during anterior cruciate ligament reconstruction with bone-patellar tendon-bone autograft: a case series**	
	Chung-ju Samsung Orthopaedic Clinic, Chung-ju, South Korea, Korea	Jong-Hyun Kim
OS22-4	**A successful application of circumferential fiber augmentation as a proactive prevention of MMPRT in a patient with a positive spreading roots sign.**	
	JCHO Osaka Hospital, Japan	Yuki Noshi
OS22-5	**Meniscal centralization anchors inserted at the articular margin are less likely to fail than those inserted at the articular surface**	
	Juntendo University, Japan	Keiichi Yoshida

Oral Presentation 23 11:55-12:25 [RoomB]

Evaluation

[Chairperson] **Katsunari Osawa** (Yokohama Sekishinkai Hospital , Japan)
Jesse Chieh-Szu Yang (Taipei Veterans General Hospital, Taipei, Taiwan)

OS23-1 **Association Between Preoperative Pain Catastrophizing and Postoperative KOOS Scores Following Around-the-Knee Osteotomy**

Department of Rehabilitation, Kanazawa Munehiro Hospital, Japan — Kayo Oari

OS23-2 **Association Between CPAK (Coronal Plane Alignment of the Knee) Classification and Clinical Outcomes In High Tibial Osteotomy**

Kagoshima University, Japan — Naohiro Uezono

OS23-3 **Evaluation of Prognostic Factors in Open Wedge High Tibial Osteotomy Using Preoperative MRI Findings**

The Department of Orthopedic Surgery, Hokkaido University Graduate School of Medicine, Japan — Ami Takahashi

OS23-4 **Evaluation of the patient satisfaction with implant removal after open wedge high tibial osteotomy.**

Department of Orthopedic Surgery, Fukuoka University Faculty of Medicine, Japan — Junya Hara

OS23-5 **Hardware removal after open-wedge high tibial osteotomy improves clinical outcomes and hardware-related complications**

Department of Orthopedic Surgery, Shikoku Cancer Center, Japan — Haruyoshi Katayama

Oral Presentation 24 12:25-12:55 [RoomB]

Rehabilitation

[Chairperson] **Miho Iwase** (Yokohama Sekishinkai Hospital, Japan)
Don Koh (Singapore General Hospital, Singapore)

OS24-1 **A Multicenter Randomized Controlled Trial for a Novel Digital Therapeutics for Treatment of Patellofemoral Pain, a Dilemma in Orthopedics.**

EverEx Inc, Seoul, Korea — Chan Yoon

OS24-2 **The Effect of Sensor-based Rehabilitation (SR) on Chronic Knee Pain (CKP) outcomes - A Systematic Review and Meta-Analysis (SRMA)**

Singapore General Hospital, Singapore — Tao Xinyu

OS24-3 **Correlation Between Preoperative and Postoperative Quadriceps Strength After Around Knee Osteotomy Combined with Osteochondral Autograft Transplantation**

Rehabilitation Department, Kameda General Hospital, Japan — Itsuki Tanaka

OS24-4 **Quadriceps Strength Recovery After Around Knee Osteotomy: Comparing 3-Week vs. 8-Week Full Weight-Bearing Protocols**

Rehabilitation Department, Kameda General Hospital, Japan — Hiroki Yamauchi

OS24-5 **Difficulties of Scrub Nurses in High Tibial Osteotomy**

Harue Hospital, Operating room nurse, Japan — Yuka Honda