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# Program

Day1 Thursday, February 26 Room1

## 8:00~9:20 Panel Discussion 1 Woman in Arthroplasties

Chairs : Yoko Miura (Funabashi Orthopedic Hospital)

Fares Haddad (Editor in Chief - The Bone and Joint Journal/Professor of Orthopaedic and Sports Surgery, University College Hospital)

- 1-1-PD1-1 Women Arthroplasty Surgeons in the U.S.: Where We Stand Today  
University of Texas Southwestern, Department of Orthopaedics Antonia F. Chen ..... 169
- 1-1-PD1-2 Woman arthroplasty Surgeons in Japan: Our current Position  
Department of Orthopaedic Surgery, Nissan Tamagawa Hospital Atsuko Sato 他 ..... 169
- 1-1-PD1-3 Being a Female Boss with Male Arthroplasty Surgeons: Insights from a Shoulder Specialist  
Department of Orthopaedic Surgery, Toyonaka Municipal Hospital Naoko Mizuno 他 ..... 170
- 1-1-PD1-4 Practicing Diversity, Equity, and Inclusion and Allyship in Developing Female Arthroplasty Surgeons: Organizational Challenges-and-Responses from a Male Supervisor's Perspective  
Dept. of Orthop Surg., Graduate school of medicine,  
Univ. of the Ryukyus Satoshi Nakasone 他 ..... 170
- 1-1-PD1-5 Women in Arthroplasty Engineering  
Clinical Research Manager Stryker South Pacific Joint Replacement  
& Enabling Technologies/Research Affiliate University of Sydney  
Faculty of Engineering Christina Esposito ..... 171

## 9:30~10:30 Educational Lecture 1 CAOS for Arthroplasty

Chair : Wataru Ando (Department of Orthopaedic Surgery, Kansai Rosai Hospital)

- 1-1-EL1-1 Current Technology in THA and TKA  
Editor in Chief - The Bone and Joint Journal/  
Professor of Orthopaedic and Sports Surgery, University College Hospital Fares Haddad ..... 172
- 1-1-EL1-2 Fundamentals of CT-Based Navigation in Total Hip Arthroplasty and Optimal Implant Alignment  
Daini-Kyoritsu Hospital Hidenobu Miki ..... 173

## 10:40~11:40 JSRA-AAHKS Combined Educational Lecture 1

Chairs : Ken Okazaki (Department of Orthopaedic Surgery, Tokyo Women's Medical University)

Takumi Nakagawa (Department of Orthopaedic Surgery, Teikyo University)

- 1-1-JAL1-1 Flexion Instability after Total Knee Arthroplasty  
Dept. of Orthop. Surg. Orthopedic and Fracture Specialists Elizabeth G Lieberman ..... 174
- 1-1-JAL1-2 Mangement of PJI following Hip and Knee Arthroplasty  
Cleveland Clinic Florida Carlos Higuera-Rueda ..... 174

**12:10~13:10 Luncheon Seminar 1**

Chair : Shuichi Matsuda (Kyoto University)

- 1-1-LS1-1 Individualized Surgery Through CT-based Robotic Technology: Advancing Functional Positioning in Hip and Knee Replacement  
 Dept. Trauma and Orthop. Surg., Univ. College London Hosp. Fares Haddad ..... 175  
 共催：日本ストライカー株式会社

**14:20~15:50 President's Special International Symposium  
 The Present and Future of Hip Resurfacing**

Chairs : Carlos Higuera-Rueda (Cleveland Clinic Florida)  
 Alexander J. Nedopil (Adventist Health Lodi Memorial)

- 1-1-PIS-1 The Present and Future of Hip Resurfacing ..... The Australian Experience  
 Department Orthopaedic Surgery Prince of Wales and St Vincent's Private Hospitals Michael Solomon ..... 178
- 1-1-PIS-2 The Future of Hip Resurfacing in the United States: Evolving Bearings and Clinical Applications  
 Univ. of Texas McGovern Medical School Dept. of Orthop. Kenneth B. Mathis ..... 178
- 1-1-PIS-3 Strategy to keep resurfacing in USA  
 Adult Reconstruction and Joint Replacement Division, Hospital for Special Surgery, Weill Cornell University Medical College Edwin P. Su ..... 179
- 1-1-PIS-4 Ceramic on Ceramic hip resurfacing  
 Imperial College Justin P Cobb ..... 179
- 1-1-PIS-5 Current and future of resurfacing arthroplasty in Japan  
 Dept. of Orthop. Medical Engineering, Osaka University Keisuke Uemura 他 ..... 180

**16:00~17:00 Special Seminar 1**

Editor-in-chiefからみた "the truth will set you free"

The Truth Will Set You Free -From the Perspective of the Editor-in-Chief

Chair : Yasuharu Nakashima (Department of Orthopaedic Surgery, Kyushu University)

- 1-1-SL1-1 The Truth Will Set You Free  
 Editor in Chief - The Bone and Joint Journal/  
 Professor of Orthopaedic and Sports Surgery, University College Hospital Fares Haddad ..... 181
- 1-1-SL1-2 The Landscape of Arthroplasty Research in Japan: Scientific Advances and the Role of the Journal of Joint Surgery and Research  
 Dept. of Orthop. Surg., Kyoto Univ. Shuichi Matsuda ..... 183

Day1 Thursday, February 26 Room7

12:10~13:10 Luncheon Seminar 6 THAにおける現在の知見と今後の流れ

Chair : Hideki Fujii (The Jikei University School of Medicine)

- 1-7-LS6-1 術者なら当然知っておくべき THA における最新情報と Next trend ~ Global registry  
での傾向から~  
Kanazawa University Tamon Kabata ..... 261
- 1-7-LS6-2 Design Features of Triple-tapered Fit and Fill Stem: Early Clinical Outcomes  
Dept. of Orthop. Surg., Hosp. for Special Surgery Mathias Bostrom ..... 261
- 共催：スミス・アンド・ネフュー株式会社

Day1 Thursday, February 26 Room9

12:10~13:10 Luncheon Seminar 8

Chair : Satoshi Nagoshi (Sapporo Kojinkai Memorial Hospital)

- 1-9-LS8-1 ~今の Full HA coated stem に満足していますか?~  
Conformity stem : the primary solution to match your patient's anatomy  
Hospital for Special Surgery Edwin P. SU ..... 288
- 共催：ユナイテッド・オーソペディック・ジャパン株式会社

Day1 Thursday, February 26 Room10

8:00~8:56 English Oral Session 1 THA1

Chair : Koji Goto (Kindai University)

- 1-10-ES1-1 Learning Curve of ALS-THA: A Report of 640 Cases by a Single Surgeon  
Joint Replacement Ctr., Reiwa Arakawa Hosp. Shigeru Murasawa 他 ..... 296
- 1-10-ES1-2 Custom-made implants with polished anterior wall augment for hip  
arthroplasty: a 12-hip analysis for iliopsoas impingement (IPI) syndrome  
Dept. of Orthop. Surgery, Kanazawa University Hospital Sayuri Maisa Namba 他 ..... 296
- 1-10-ES1-3 Short-term Outcomes of Total Hip Arthroplasty Using the MINIMA Rectangular  
Curved Short Stem  
Department of Orthopaedic Surgery, Matsushita Memorial Hospital Hiroki Yamamoto 他 ..... 296
- 1-10-ES1-4 Short flat-tapered cementless stem total hip arthroplasty in elderly shows  
favorable mid/long-term clinical and radiological outcomes, comparable to  
younger patients  
Dept. of Orthop. Surg., Chibaken Saiseikai Narashino Hosp. Kensuke Yoshino 他 ..... 296
- 1-10-ES1-5 Robot-assisted total hip arthroplasty for Crowe type II or higher hip dysplasia  
Dept. of Orthop. Surgery, Nagoya Univ. Hiroshi Asai 他 ..... 297

- 1-10-ES1-6 Accuracy of cup placement in THA using a new CT-based navigation system  
“ORTOMA”  
Dept. of Orthop. Surg., Hokusuikai Kinen Hosp. Takuya Kusakabe 他 ..... 297
- 1-10-ES1-7 Systematic review and network meta-analysis comparing conventional,  
robotic, computer-navigation, AR, PSI, and accelerometer-navigated total hip  
arthroplasty  
Dept. of Orthop. Surg, Matsuda Hosp. Takanori Miura 他 ..... 297

**9:05~9:53 English Oral Session 2 TKA**

Chair : Shinichiro Nakamura (Kyoto Katsura Hospital)

- 1-10-ES2-1 A Multi-Plane Anatomical Classification of the Knee: The 3PAK Framework  
Dept. of Orthop. Surgery, Akita Univ. Graduate School of Medicine Manabu Akagawa 他 ..... 298
- 1-10-ES2-2 Proximal Femoral Bone Mineral Density and Patient-reported Outcomes  
after Total Knee Arthroplasty; Analysis Using the AI Osteoporosis Diagnosis  
Assistance System  
Dept. of Orthop. Surg., Tokyo Univ. Ryota Yamagami 他 ..... 298
- 1-10-ES2-3 Favorable clinical outcomes of unicompartmental knee arthroplasty in early  
osteoarthritis with irreparable medial lesions in middle-aged and older adults  
Dept. of Orthop. Surg., Okayama Univ. Koki Kawada 他 ..... 298
- 1-10-ES2-4 Kinematic retaining implant demonstrates more physiological kinematics  
compared with cruciate retaining and medial congruent designs in total knee  
arthroplasty  
Dept. of Orthop. Surg., Ehime Univ. Tomofumi Kinoshita 他 ..... 298
- 1-10-ES2-5 Long-Term Outcomes of Total Knee Arthroplasty Using PFC Sigma Mobile-  
Bearing Prosthesis: A 14-Year Average and Minimum 10-Year Follow-Up  
Dept. of Orthop. Surg., Okayama Univ. Teruhiko Ando 他 ..... 299
- 1-10-ES2-6 Rotational movement of the femur correlates with patient reported outcomes  
after guided motion PS-TKA  
Dept. Orthop. Surg., Nippon Medical School Chibahokusoh Hospital Tatsunori Kataoka 他 ..... 299

**10:10~10:58 English Oral Session 3 THA2**

Chair : Keisuke Uemura (Osaka University)

- 1-10-ES3-1 Lessons from Two Cases of Bone Cement Implantation Syndrome during Hip  
Arthroplasty  
Dept. of Orthop. Surg., Yuuai Medical Center Riiko Miyagi 他 ..... 300
- 1-10-ES3-2 A Retrospective Analysis of Novel Physical Examination Test for Diagnosing  
Iliopsoas Impingement After THA  
Dept. of Orthop. Surgery, Kanazawa University Hospital Sayuri Maisa Namba 他 ..... 300

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- 1-10-ES3-3 Finite element analysis of contact pressure in cemented dual mobility cup under different inclination angles  
Dept. of Orthop. Surg., Graduate School of Medicine,  
Univ. of the Ryukyus Sakura Kuniyoshi 他 ..... 300
- 1-10-ES3-4 Comprehensive Perioperative Osteoporosis Management for Fracture Prevention in Supine Anterior Approach THA  
Dept. of Orthop. Surgery, Keio Univ. Atsuhiko Fujie 他 ..... 300
- 1-10-ES3-5 Performance of AI automated hip-spine assessment is comparable to human observers: A study involving multiple observers  
Formus Labs, Auckland, NZ Marco T Schneider 他 ..... 301
- 1-10-ES3-6 Early Detection of Acetabular Fixation by Tomosynthesis and Its Relationship with Preoperative Bone Mineral Density in Cementless THA  
Dept. of Orthop. Surg., Kanagawa Rehabilitation Hosp. Ryuichi Sato 他 ..... 301

### 11:05~11:45 Best Paper Award Candidate Session

Chairs : Hiroyasu Ogawa (Gifu University)  
Hiroshi Fujita (Senshukai Hospital)

- 1-10-AC2-1 Preoperative Trunk Muscle Quality Predicts Locomotive Syndrome Improvement after Total Hip Arthroplasty: An AI-Based CT Analysis  
Dept. of Orthop. Surgery, Ehime Univ. Kohei Kono 他 ..... 302
- 1-10-AC2-2 Clinical Outcomes of Functional versus Mechanical Alignment in Robotic-Arm Assisted Total Knee Arthroplasty  
Dept. of Orthop. Surg., The University of Tokyo Kohei Kawaguchi 他 ..... 302
- 1-10-AC2-3 Psychological versus physical activity factors: determinants of preoperative patient satisfaction in end-stage knee osteoarthritis  
Dept. of Orthop. Surg., Ehime Univ. Tomofumi Kinoshita 他 ..... 302
- 1-10-AC2-4 Early Functional Recovery and Gait Metrics in Robotic-Assisted Total Hip Arthroplasty: A Feasibility Study Using Global Real-World Data  
Dept. of Orthop. Surg., Fujita Health Univ. Bantane Hosp. Shoki Ban 他 ..... 302
- 1-10-AC2-5 In Vivo Three-Dimensional Kinematics in Unicompartmental Knee Arthroplasty: Sports Activity Cluster Analysis  
Dept. of Orthop. Surg., The Univ. of Tokyo Kenichi Kono 他 ..... 303

### 12:10~13:10 Luncheon Seminar 9

#### Kinematic Alignment TKA optimized implant design

Chair : Ken Okazaki (Tokyo Women's Medical University)

- 1-10-LS9-1 Kinematic Alignmentに適合した Trochlear Designの必要性と SpheriKAの特徴  
Saka Midorii Orthopedic Hospital Yoshinori Soda ..... 304

- 1-10-LS9-2 Equivalent One-Year Patient-Reported Outcome Scores Following Cementless and Cemented Total Knee Arthroplasty with a Kinematic Alignment-Optimized Implant  
 California Northstate University Alexander J. Nedopil 他 ..... 304  
 共催：メダクタジャパン株式会社

Day1 Thursday, February 26 Poster3

14:20~14:45 Poster Presentation 13 THA

Chair : Youngwoo Kim (Kyoto City Hospital)

- 1-3-PS13-1 Comparison of THA Cup Angles Between a CT-Based Navigation System and Postoperative X-rays  
 Dept. of Rehabilitation, Yamagata Univ. Faculty of Medicine Yuya Takakubo 他 ..... 364
- 1-3-PS13-2 Impact of augmented reality-based portable navigation in total hip arthroplasty demonstrating high accuracy and a short learning curve  
 Dept. of Orthop. Surg., Dokkyo Medical Univ. Saitama Medical Center Tetsuya Tachibana 他 ..... 364
- 1-3-PS13-3 Autogenous acetabular bone grafts in total hip arthroplasty for high-grading developmental dysplasia: cancellous versus structural grafts  
 Dept. of Orthop. Surgery, Aichi Koseiren Konan Kosei Hosp. Masashi Kawasaki 他 ..... 364
- 1-3-PS13-4 Postoperative non-weight-bearing following periprosthetic femoral fracture surgery is a contributing factor to reduced walking ability  
 Dept. of Orthop. Surgery, Minoh City Hospital Koji Katoh 他 ..... 364
- 1-3-PS13-5 Body weight influences pelvic tilt during cup placement in supine THA  
 Yuuai Medical Center Miwa Tamayose 他 ..... 365

14:45~15:10 Poster Presentation 14 TKA, Others

Chair : Yasushi Oshima (Nippon Medical School)

- 1-3-PS14-1 Investigation of International Variation in the Recovery of Objective Gait Metrics Following Total Joint Arthroplasty  
 Dept. of Orthop. Surg. and Joint Surgery Centre, Takatsuki General Hosp. Takafumi Hiranaka 他 ..... 366
- 1-3-PS14-2 Modern Total Knee Arthroplasty Restores Horizontal Joint Line and Standardizes Coronal Plane Mechanics: A Pre- and Post-Operative Comparative Study  
 Dept. of Orthop. Surg. and Joint Surg. Center, Takatsuki General Hosp. Abdulaziz A. Basaqr 他 ..... 366
- 1-3-PS14-3 Patient height is a predictive factor for good postoperative knee flexion after cruciate-retaining total knee arthroplasty with GRADIUS design  
 Dept. of Orthop. Surg, Matsuda Hosp. Takanori Miura 他 ..... 366

- 1-3-PS14-4 Two-Year Clinical Outcomes after Reverse Total Shoulder Arthroplasty for Proximal Humeral Fractures  
Dept. of Orthop. Surgery, Matsuyama Red Cross Hosp. Hiromichi Omae ..... 366
- 1-3-PS14-5 Subscapularis repair enhances internal rotation in French but not Japanese patients after a short-typed curved stem RSA

**Day2 Friday, February 27 Room1**

**9:40~10:40 JSRA-AAHKS Combined Symposium [Knee] 1**  
**Tips and Tricks to improve PROMs after TKA**  
**JSRA-AAHKS Combined Symposium [Knee] 2**  
**Fixation methods in TKA: cemented vs cementless approaches ?**  
 Chairs : Antonia F. Chen (University of Texas Southwestern, Department of Orthopaedics)  
 Yukihide Minoda (Department of Orthopaedic Surgery, Osaka Metropolitan University Graduate School of Medicine)

- 2-1-JASK1-1 Tips and Tricks to improve PROMs after TKA in US  
Dept. of Orthop. Surg. Orthopedic and Fracture Specialists Elizabeth G Lieberman ..... 388
- 2-1-JASK1-2 Tips and tricks for PROMs improvement; stability, muscle, and postoperative scar  
Dept. of Orthop. Surgery, Osaka Metropolitan Univ. Hideki Ueyama 他 ..... 388
- 2-1-JASK2-1 Reconsidering Fixation: Cementless Total Knee Arthroplasty  
Dept. of Orthop. Surg., Vanderbilt Univ. Medical Center Gregory G Polkowski ..... 389
- 2-1-JASK2-2 Cement Total knee arthroplasty in Japan  
Kyoto Katsura Hosp. Shinichiro Nakamura 他 ..... 389

**10:50~11:50 Educational Lecture 4 Arthroplasty for Future**  
 Chair : Masaki Takao (Department of Orthopaedic Surgery, Ehime University Graduate School of Medicine)

- 2-1-EL4-1 Revision and Complex Cases in Arthroplasty: Current Strategies and Future Directions  
Hospital for Special Surgery Mathias Bostrom ..... 390
- 2-1-EL4-2 Next-Generation Arthroplasty: Artificial Intelligence, Robotics, and Beyond  
Imperial College Justin P Cobb ..... 390

共催：ジンマー・バイオメット合同会社

**13:20~14:20 JSRA-AAHKS Combined Symposium [Hip] 1**  
**Robotic technology: Pros and Cons**

**JSRA-AAHKS Combined Symposium [Hip] 2**

**Large femoral head or dual mobility for prevention of dislocation ?**

Chairs : Elizabeth G Lieberman (Dept. of Orthop. Surg. Orthopedic and Fracture Specialists)

Yutaka Inaba (Department of Orthopaedic Surgery, Graduate School of Medicine, Yokohama City University)

- 2-1-JASH1-1 Pros and Cons of Robotic Technology in the US  
 University of Texas Southwestern, Department of Orthopaedics Antonia F. Chen ..... 392
- 2-1-JASH1-2 Current Status of Robotic Total Hip Arthroplasty in Japan  
 Dept. of Orthop. Surg., Ehime Univ. Masaki Takao 他 ..... 392
- 2-1-JASH2-1 Dual-mobility Constructs or Large Femoral Head Bearings in Revision Total Hip Arthroplasty?  
 Cleveland Clinic Florida Carlos Higuera-Rueda ..... 393
- 2-1-JASH2-2 Large-Diameter Femoral Heads in THA: Current Perspectives and Evolving Technologies  
 Dept. of Orthop. Surgery, Kansai Rosai Hospital Wataru Ando 他 ..... 393

**14:30~15:30 Educational Lecture 5 Arthroplasty for Sports**

Chair : Takashi Sakai (Department of Orthopaedic Surgery, Yamaguchi University Graduate School of Medicine)

- 2-1-EL5-1 Feasibility and Rates of Return to Sport Following Total and Partial Knee Arthroplasty  
 Univ. of Texas McGovern Medical School Dept. of Orthop. Surg. Kenneth B. Mathis ..... 394
- 2-1-EL5-2 Total hip arthroplasty for sports  
 Adult Reconstruction and Joint Replacement Division, Hospital for Special Surgery, Weill Cornell University Medical College Edwin P. Su ..... 394

**15:40~16:40 JSRA-AAHKS Combined Educational Lecture 2**

Chairs : Yasuharu Nakashima (Department of Orthopaedic Surgery, Kyushu University)  
 Koji Goto (Department of Orthopaedic Surgery, Kindai University)

- 2-1-JAL2-1 Technology Transforming Total Hip and Total Knee Arthroplasty  
 Dept. of Orthop. Surg., Vanderbilt Univ. Medical Center Gregory G Polkowski ..... 395
- 2-1-JAL2-2 Patient Preoperative Optimization in Hip and Knee Arthroplasty  
 University of Texas Southwestern, Department of Orthopaedics Antonia F. Chen ..... 395

Day2 Friday, February 27 Room4

12:05~13:05 Luncheon Seminar 14 THAの質を変える 3D術前計画とCAS活用の最前線  
Chair : Yutaka Inaba (Yokohama University)

- 2-4-LS14-1 脊柱変性・骨盤後傾のある症例でのTHA：課題克服への戦略と技術的アプローチ  
Kyoto University Toshiyuki Kawai ..... 435
- 2-4-LS14-2 Importance of Technology in Hip Replacement  
Department Orthopaedic Surgery Prince of Wales and St Vincent's  
Private Hospitals Michael Solomon ..... 435
- 共催：メダクタジャパン株式会社

Day2 Friday, February 27 Room11

12:05~13:05 Luncheon Seminar 21  
セメントレスTKAにおける最新のテクノロジーおよびトレンド  
Chair : Hiroshi Horiuchi (Shinshu University)

- 2-11-LS21-1 セメントレスTKAのPros and cons  
Saitama Cooperative Hospital Ayano Kuwasawa 他 ..... 541
- 2-11-LS21-2 Cementless TKA: The Fastest Growing Segment in U.S. Arthroplasty-Why?  
Dept. of Orthop. Surg., Univ. of Texas Houston, U.S.A. Kenneth B. Mathis ..... 541
- 共催：スミス・アンド・ネフュー株式会社