

9 : 15 ~ 10 : 15 Instructional lecture 2 Moderator S. Tanaka

- 1-2-EL2 Glucocorticoid-induced osteoporosis
 *Yoshiya Tanaka*, Dept. of Molecular Targeted Therapeutics,
 Univ. of Occupational and Environmental Health...S4

10 : 30 ~ 11 : 20 Free papers 1 Moderators K. Yamamoto, M. Osaki
Best oral presentation award session

- 1-2-1 Senescent cells contribute the onset and flares of arthritis in rheumatoid arthritis
 *Katsunori Ota, et al.*, Div. of Rehabilitation Science, Dept. of Health Sciences,
 Faculty of Health Sciences, Hokkaido Univ...S5
- 1-2-2 Biofilm-targeted monoclonal antibody therapy in a mouse model of periprosthetic joint infection
 *Jun Oike, et al.*, Dept. of Orthop. Surg., Rush Univ. Medical Center, Chicago, IL, USA...S5
- 1-2-3 Ten-year trend in cumulative incidence of knee osteoarthritis in a population-based cohort:
 Comparison of the ROAD study 2005-2008 and 2015-2018
 *Gaku Araki, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S6
- 1-2-4 Real-world walking patterns are associated with regional brain atrophy and white matter lesions:
 UK biobank study
 *Takahiro Tajimi, et al.*, Univ. of New South Wales, School of Population Health, Sydney, Australia...S6
- 1-2-5 Apex distal JLO in the CPAK classification is associated with progression of knee osteoarthritis:
 A longitudinal study from Toei cohort
 *Kazuki Nomoto, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S7

12 : 00 ~ 13 : 10 Luncheon seminar 1 Moderators Y. Nakashima, T. Koike

- 1-2-LS1-1 Effect of sleep quality on pain sensitivity: New insights for musculoskeletal pain management in
 OA and RA *Tomoko Tetsunaga*, Faculty of Human Life Science, Notre Dame Seishin Univ...S8
- 1-2-LS1-2 Basic science and clinical applications of TNF inhibition for the pain of rheumatoid arthritis
 *Keiichiro Nishida*, Locomotive Pain Center, Faculty of Medical Development Field,
 Okayama Univ...S8

15 : 00 ~ 16 : 20 Symposium 1 Moderators T. Ushida, A. Igarashi
Cost-benefit of treatment for chronic lower back pain

- 1-2-S1-1 Value assessment, cost-effectiveness of chronic low-back pain treatments
 *Ataru Igarashi*, Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo...S9
- 1-2-S1-2 Mechanical evaluation and treatment of chronic low back pain improves cost-benefit ratio
 *Yoichi Kishikawa, et al.*, Kishikawa Orthop. Clinic...S9
- 1-2-S1-3 Optimizing cost-benefit in chronic low back pain: Bridging active care across clinical and
 occupational settings *Ko Matsudaira*, Tailor Made Back Pain Clinic...S10
- 1-2-S1-4 Beyond pain toward social reintegration: Cost-benefit analysis and QOL recovery through
 multidisciplinary treatment for chronic low back pain
 *Tomoko Tetsunaga, et al.*, Dept. of Sports Medicine, Faculty of Medicine, Dentistry,
 and Pharmaceutical Sciences, Okayama Univ...S10
- 1-2-S1-5 Analysis of chronic pain management including chronic low back pain: Based on ICD-11
 classification and outcomes of comprehensive interventions
 *Takahiro Ushida, et al.*, Dept. of Pain Medicine, Aichi Medical Univ...S11

16 : 35 ~ 17 : 55 JOA Directors' proposed symposium 2 Moderators H. Akiyama, N. Iwasaki
Current status and challenges in AI device development and implementation in orthopaedics

- 1-2-JS2-1 Current status of medical AI device development and implementation: The JOA Next-Generation Medical Technology Review Committee National Survey 2024
*Hiroyasu Ogawa, et al.*, Dept. of Orthop. Surg., Div. of Disease Control, Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ.··S12
- 1-2-JS2-2 Establishment of a risk assessment tool for hip fracture by using AI
*Takeshi Miyamoto*, Dept. of Orthop. Surg., Faculty of Life Sciences, Kumamoto Univ.··S12
- 1-2-JS2-3 Artificial intelligence-based ultrasonographic screening of the throwing-related elbow injuries: Current status and challenges
*Kenta Takatsuji, et al.*, Dept. of Orthop. Surg., Rakuwakai Marutamachi Hosp.··S13
- 1-2-JS2-4 Applications of AI in spine surgery: From image analysis to surgical simulator development
*Katsuhisa Yamada, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.··S13
- 1-2-JS2-5 Development of computer vision-based medical devices for clinically oriented gait analysis
*Yu Moriguchi, et al.*, Medical Center for Translation and Clinical Research, Global and Innovative Medicine, The Univ. of Osaka Hosp.··S14

1st Day May 21 Room 3

8 : 00 ~ 9 : 00 **Instructional lecture 3** Moderator **A. Kaneuji**

- 1-3-EL3 The evolutionary journey of periacetabular osteotomy: From Dr. Tagawa's RAO to SPO
*Toru Nishiwaki, et al.*, Hip Joint Minimally Invasive Treatment Center, Sanno Hosp.··S14

9 : 15 ~ 10 : 15 **Instructional lecture 4** Moderator **S. Nakamura**

- 1-3-EL4 Discussing wheelchairs with orthopaedic specialists: 100 years of wheelchair history and current issues*Ritsuya Katsura*, Dept. of Physical Medicine & Rehabilitation, Clark Hosp.··S15

10 : 30 ~ 11 : 30 **Free papers 2 Sports: Lower limb** Moderators **Y. Yonetani, S. Yamaguchi**

- 1-3-1 Effect of suture material differences on the suture strength of the Yoshizu cross-lock method for Achilles tendon rupture
*Takashi Fukuhara, et al.*, Dept. of Orthop. Surg., Niigata Hand Surg. Foundation··S16
- 1-3-2 No significant impact of platelet-rich plasma on recovery after Achilles tendon surgery: A double-blind randomized controlled trial
*Youichi Yasui, et al.*, Dept. of Orthop. Surg., Teikyo Univ.··S16
- 1-3-3 Postoperative outcomes of arthroscopic ligament repair for chronic ankle instability and their association with preoperative MRI findings of calcaneofibular ligament
*Tomoyuki Nakasa, et al.*, Dept. of Artificial Joints and Biomaterials, Graduate School of Biomedical and Health Sciences, Hiroshima Univ.··S17
- 1-3-4 Radiographic characteristics of medial malleolar stress fractures in athletes
*Tomohiro Matsui, et al.*, Sports Orthop. & Foot and Ankle Center, Takanohara Central Hosp.··S17
- 1-3-5 Long-term outcomes of autologous chondrocyte implantation: Data from CaTCh study
*Ryuichiro Akagi, et al.*, Knee Surg. and Sports Medicine Center, Oyumino Central Hosp.··S18
- 1-3-6 Eccentric hamstring strength as a risk factor for hamstring strain: A prospective cohort study in elite male soccer players*Jun Shiozawa, et al.*, Dept. of Sports Medicine, Juntendo Univ. School of Sports and Health Science··S18

12 : 00 ~ 13 : 10 Luncheon seminar 2 Moderator H. Hagino

- 1-3-LS2-1 Osteoporosis Liaison Services approach to osteoporosis screening leading to treatment and out patient Fracture Liaison Services vertebral fracture
.....*Masao Kurokawa*, Dept. of Orthop. Surg., Saiseikai Suita Hosp.··S19
- 1-3-LS2-2 Treatment algorithm and database research on the new guidelines of osteoporosis 2025
.....*Noriaki Yamamoto*, Dept. of Orthop. Surg., Niigata Reha Hosp.··S19

**15 : 00 ~ 16 : 20 Symposium 2 Moderators T. Sawaguchi, N. Yamamoto
Paradigm shift in proximal femoral fracture treatment in the 2022 medical fee revision:
Current situation and challenges**

- 1-3-S2-1 Insurance coverage and reimbursement for fragility fractures
.....*Keigo Ban*, Ministry of Health, Labour and Welfare··S20
- 1-3-S2-2 The challenge of FFN-Japan
.....*Noriaki Yamamoto, et al.*, Dept. of Orthop. Surg., Niigata Reha. Hosp.··S20
- 1-3-S2-3 Current status and issues seen from FFN-J national hip fracture database
.....*Narutaka Katoh, et al.*, Dept. of Traumatology, Fukushima Medical Univ.··S21
- 1-3-S2-4 Paradigm shifts in proximal femoral fracture care after the 2022 medical fee revision:
Insights and proposals from orthopaedic trauma practice
.....*Tomoyuki Noda, et al.*, Dept. of Orthop. Surg.,
Kawasaki Medical School General Medical Center··S21

**16 : 35 ~ 17 : 55 JOA Directors' proposed symposium 3 Moderators K. Yamauchi, R. Yamamoto
A bright future for orthopaedic surgeons:
Leadership to support career development and a positive work environment**

- 1-3-JS3-1 Changes in the working styles of female orthopaedic surgeons: Findings from the 2nd JOA survey of female members
.....*Satomi Nagamine, et al.*, Dept. of Orthop. Surg., Saga Univ.··S22
- 1-3-JS3-2 Career support and role models from the perspective of increasing the number of fellow orthopaedic surgeons
.....*Koji Otani*, Center for Medical Education and Career Development,
Fukushima Medical Univ.··S22
- 1-3-JS3-3 The JSSH Career Development Committee: Past achievements and future directions for comprehensive career education
.....*Yumi Niizeki, et al.*, Dept. of Orthop. Surg., Soka Municipal Hosp.··S23
- 1-3-JS3-4 Department management based on Adlerian Psychology: The case of Gifu University with doubled recruitment and zero attrition
.....*Masanori Isobe*, Dept. of Obstetrics and Gynecology, Gifu Univ.··S23
- 1-3-JS3-5 Leadership learned from an academic career and coaching
.....*Akemi Yamamoto*, Asahikawa Medical Univ.··S24

1st Day May 21 Room 4

8 : 00 ~ 9 : 00 Instructional lecture 5 Moderator M. Ishikawa

- 1-4-EL5 Return to sports following around-the-knee osteotomy in athletes
.....*Hiroshi Nakayama, et al.*, Dept. of Orthop. Surg., Hyogo Medical Univ.··S25

9 : 15 ~ 10 : 15 Instructional lecture 6 Moderator Y. Ishibashi

- 1-4-EL6 Diagnosis and treatment strategies for knee sports disorders using musculoskeletal ultrasound
.....*Junsuke Nakase*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.··S25

10 : 30 ~ 11 : 30 Free papers 3 THA 1

Moderators J. Nakamura, H. Hamada

- 1-4-1 Thirty-year trends in periprosthetic femoral fractures in a super-aged region: A multicenter study
..... *Hiromichi Abe, et al.*, Dept. of Orthop. Surg., Municipal Kakunodate General Hosp. ...S26
- 1-4-2 Bone quality evaluation using serum pentosidine levels in patients undergoing THA
..... *Tetsuo Hayama, et al.*, Dept. of Orthop. Surg., The Jikei Univ. School of Medicine ...S26
- 1-4-3 Does total hip arthroplasty increase the risk of proximal femoral fracture of the operated side?
..... *Gaku Koyano, et al.*, Dept. of Orthop. Surg., Dokkyo Medical Univ. Saitama Medical Center ...S27
- 1-4-4 Factors affecting treatment outcomes in periprosthetic joint infection: Is CLAP effective?
..... *Keisuke Oe, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S27
- 1-4-5 Comparison of skin microbial flora at the longitudinal or bikini incision in patients undergoing direct anterior approach total hip arthroplasty
..... *Kei Sano, et al.*, Dept. of Orthop. Surg., Juntendo Univ. Urayasu Hosp. ...S28
- 1-4-6 Comparison of longitudinal incision and transvers incision in THA using POSAS score with patient-oriented index
..... *Yujiro Kuramitsu, et al.*, Dept. of Orthop. Surg., Tokyo Women's Medical Univ. ...S28

12 : 00 ~ 13 : 10 Luncheon seminar 3

Moderator Y. Anraku

- 1-4-LS3-1 Recommendation for a safe anterior approach with fracture table for femoral neck fractures
..... *Tomonori Baba*, Dept. of Orthop., Juntendo Univ. ...S29
- 1-4-LS3-2 Traction table × Dual mobility: A revolution in total hip arthroplasty
..... *Seiya Ishii*, Dept. of Orthop. Surg., Juntendo Tokyo Koto Geriatric Medical Center ...S29

15 : 00 ~ 16 : 20 Symposium 3

Moderators T. Morii, K. Yamada

Considering peri-implantitis treatment

- 1-4-S3-1 Treatment strategy for periprosthetic joint infection
..... *Kenichi Oe, et al.*, Dept. of Orthop. Surg., Kansai Medical Univ. ...S30
- 1-4-S3-2 Treatment strategy of the fracture-related infection (FRI)
..... *Kentaro Matsui, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S30
- 1-4-S3-3 Continuous local antibiotic perfusion for surgical site infection after posterior spinal instrumented surgery: A novel therapeutic concept for implant retention
..... *Hiroshi Takahashi, et al.*, Dept. of Orthop. Surg., Univ. of Tsukuba ...S31
- 1-4-S3-4 Optimization of antibiotic duration and appropriate use strategies for implant-associated infections
..... *Toshiumi Taniguchi*, Dept. of Infectious Diseases, Chiba Univ. Hosp. ...S31
- 1-4-S3-5 Treatment of orthopaedic implant infections: Perspective of biofilm research
..... *Hyonmin Choe, et al.*, Musculoskeletal Science,
Yokohama City Univ. Graduate School of Medicine ...S32

16 : 35 ~ 17 : 55 Symposium 4

Moderators T. Matsushita, N. Takenaka

All about nonunion treatment

- 1-4-S4-1 The effectiveness and approaches of LIPUS for pseudoarthrosis
..... *Narutaka Katoh, et al.*, Dept. of Traumatology, Fukushima Medical Univ. ...S33
- 1-4-S4-2 Acceleration of fracture nonunion repair by transcutaneous application of carbon dioxide
..... *Takahiro Niikura, et al.*, Dept. of Orthop. Surg., Hyogo Prefectural Nishinomiya Hosp. ...S33
- 1-4-S4-3 Extracorporeal shock wave therapy for non-union or delayed union
..... *Nobuyasu Ochiai, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S34
- 1-4-S4-4 Transplantation of autologous CD34-positive cells for non-union fracture
..... *Ryosuke Kuroda, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S34

- 1-4-S4-5 Efficacy of the chipping technique: A versatile framework for managing lower limb nonunion
*Yoshinobu Watanabe, et al.*, Dept. of Orthop. Surg., Teikyo Univ.··S35

1st Day May 21 Room 5

8 : 00 ~ 9 : 00 Instructional lecture 7 Moderator O. Soejima

- 1-5-EL7 Current approaches and future perspectives to treatment of thumb carpometacarpal joint osteoarthritis*Toshiki Miura*, Dept. of Orthop. Surg., JR Tokyo General Hosp.··S36

9 : 15 ~ 10 : 15 Instructional lecture 8 Moderator K. Hiraoka

- 1-5-EL8 Interdisciplinary medical and research activities to foster the activities of patients with refractory benign and intermediate tumors*Yoshihiro Nishida*, Dept. of Rehabilitation, Nagoya Univ. Hosp.··S36

10 : 30 ~ 11 : 30 Free papers 4 Pain Moderators K. Miki, K. Matsudaira

- 1-5-1 Pain and health-related QOL among middle-aged and older adults living in the community focusing on central sensitization
*Naoki Segi, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.··S37
- 1-5-2 High central sensitization inventory scores as an independent predictor of delayed return to work in patients with frozen shoulder*Eiji Shimpuku, et al.*, Dept. of Orthop. Surg., Samukawa Hosp.··S37
- 1-5-3 Excitatory and inhibitory neural activity in complex regional pain syndrome
*Katsuyuki Iwatsuki, et al.*, Dept. of Orthop. Surg., Toyota Kosei Hosp.··S38
- 1-5-4 Postoperative administration of duloxetine has a limited analgesic effect on postoperative pain after high tibial osteotomy: A randomised controlled trial
*Hiroyasu Ogawa, et al.*, Dept. of Orthop. Surg., Div. of Disease Control, Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ.··S38
- 1-5-5 Goreisan could decrease postoperative swelling and pain following total hip arthroplasty
*Yuto Uehara, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences··S39
- 1-5-6 Physical activity quantified by HSS Pedi-FABS and musculoskeletal pain in adolescents: A prefecture-wide cross-sectional survey in Chiba, Japan (n=6,459)
*Takashi Hozumi, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.··S39

12 : 00 ~ 13 : 10 Luncheon seminar 4 Moderator K. Goto

- 1-5-LS4 Strategies of Kampo medicine for low back pain and neuropathic pain
*Yoshihide Yakazu*, Dept. of Anesthesiology, Tokyo Medical Univ. Hosp. /Yakazu Clinic··S40

**15 : 00 ~ 16 : 20 Symposium 5 Moderators E. Tsuda, T. Ogata
 Rehabilitation-related technologies that accelerate musculoskeletal care**

- 1-5-S5-1 Motor learning theory and advanced technologies: Accelerating embodiment rehabilitation
*Shu Morioka*, Neurorehabilitation Research Center, Kio Univ.··S41
- 1-5-S5-2 Prosthetics/orthotics accelerating musculoskeletal rehabilitation: A new symphony with orthopaedic surgeons*Sayaka Fujiwara*, Rehabilitation Center, The Univ. of Tokyo Hosp.··S41
- 1-5-S5-3 Standing assistive device Qolo: Development through medical-engineering collaboration
*Yukiyo Shimizu, et al.*, Dept. of Rehabilitation Medicine, Univ. of Tsukuba··S42
- 1-5-S5-4 Clinical application of radial extracorporeal shock wave therapy in the management of spasticity
*Tomoko Sakai, et al.*, Dept. of Rehabilitation Medicine, Institute of Science Tokyo··S42

- 1-5-S5-5 Clinical gait analysis of knee osteoarthritis patients
 *Takeo Nagura*, Dept. of Clinical Biomechanics, Keio Univ...S43
- 1-5-S5-6 Assessment of daily physical function using wearable devices
 *Keiko Yamada*, Saitama Prefecture Univ./Dept. of Rehabilitation, Univ. of Tokyo Hosp...S43

16 : 35 ~ 17 : 55 Symposium 6	Moderators T. Sakai, Y. Sakai
Musculoskeletal management and rehabilitation treatment for cancer patients	

- 1-5-S6-1 Rehabilitation strategy for cancer patients with skeletal metastasis
 *Tatsuya Takagi*, Dept. of Orthop., Juntendo Univ...S44
- 1-5-S6-2 Management of cancer treatment-induced bone loss
 *Nokitaka Setsu, et al.*, Dept. of Orthop. Surg., NHO Kyushu Cancer Center...S44
- 1-5-S6-3 Rehabilitation strategies for chemotherapy-induced peripheral neuropathy
 *Yusuke Shinoda*, Dept. of Rehabilitation Medicine, Saitama Medical Univ...S45
- 1-5-S6-4 Rehabilitation treatment for chronic graft-versus-host disease with joint contractures
Yoshitada Sakai, et al., Div. of Rehabilitation Medicine, Kobe Univ. Graduate School of Medicine...S45

1st Day May 21 Room 6

8 : 00 ~ 9 : 00 Instructional lecture 9	Moderator H. Shima
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- 1-6-EL9 Treatment strategy for hindfoot disorders using hip-to-calcaneus radiograph
 *Naoki Haraguchi*, Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine...S46

9 : 15 ~ 10 : 15 Instructional lecture 10	Moderator T. Sawaguchi
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- 1-6-EL10 Diagnosis and treatment for fragility fracture of the pelvis
 *Naofumi Shiota, et al.*, Dept. of Orthop. Surg. and Rehabilitation, Okayama Medical Center...S46

10 : 30 ~ 11 : 30 Free papers 5	Moderators Y. Watanabe, M. Tokunaga
Hip fracture 1: Treatment and prognosis	

- 1-6-1 Association between psoas muscle index and postoperative ambulation after proximal femoral fracture *Natsumi Saka, et al.*, Dept. of Orthop. Surg., Teikyo Univ...S47
- 1-6-2 Perioperative complications and postoperative activities of daily living after surgery within 48 hours for intertrochanteric femoral fractures
 *Tomoya Okazaki, et al.*, Dept. of Orthop. Surg., Yamaguchi Rosai Hosp...S47
- 1-6-3 The association between perioperative dehydration and early postoperative complications in patients with proximal femoral fractures eligible for early surgery
 *Yuichi Yamaguchi, et al.*, Soejima Seikeigeka Hosp...S48
- 1-6-4 Ideal intramedullary nail placement for elderly Japanese: Risks and considerations for patients with short stature and low body weight *Yosuke Nagai, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine...S48
- 1-6-5 Intraoperative assessment of middle-length nail insertability using a trial nail in unstable intertrochanteric femoral fractures and its clinical significance
 *Takashi Iwakura, et al.*, Dept. of Orthop. Surg., Sanda City Hosp...S49
- 1-6-6 Comparison of cephalomedullary nails and compression hip screws in stable intertrochanteric femoral fractures
 *Shota Nakagawa, et al.*, Trauma and Reconstruction Center, Shin-Yurigaoka General Hosp...S49

12 : 00 ~ 13 : 10	Luncheon seminar 5	Moderator T. Kumai
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- 1-6-LS5 Clinical application and therapeutic effects of the super inductive system (SIS)
 *Shinya Nakasato, et al.*, N Clinic...S50

15 : 00 ~ 16 : 20	Symposium 7	Moderators H. Asahara, Y. Imai
Musculoskeletal homeostatic mechanisms centered on skeletal muscle		

- 1-6-S7-1 Molecular mechanisms of muscle atrophy and strategies for healthy aging
 *Yusuke Ono*, Dept. of Muscle Development and Regeneration,
 Institute of Molecular Embryology and Genetics, Kumamoto Univ...S51
- 1-6-S7-2 Mechanisms underlying skeletal muscle regulation by androgens
 *Yuuki Imai*, Proteo-Science Center, Ehime Univ...S51
- 1-6-S7-3 The pivotal role of NAD⁺ metabolism in the lateral hypothalamus for pathogenesis of sarcopenia
 *Naoki Ito*, National Center for Geriatrics and Gerontology...S52
- 1-6-S7-4 Activation of motor function driven by tendon: From mechanosensing to therapeutic innovation
 *Hiroshi Asahara*, Dept. of Systems BioMedicine, Institute of Science Tokyo...S52
- 1-6-S7-5 Dual descending pathways drive the initiation of skilled movements
 *Yutaka Yoshida, et al.*, Okinawa Institute of Science and Technology Graduate Univ...S53

16 : 35 ~ 17 : 55	Symposium 8	Moderators A. Sakai, N. Miyakoshi
Secondary fracture prevention		

- 1-6-S8-1 Secondary fracture prevention through ortho-geriatric co-management
 *Kotaro Azuma*, Dept. of Geriatric Medicine, The Univ. of Tokyo Hosp...S54
- 1-6-S8-2 Secondary fracture prevention in clinical practice *Fumitoshi Omura*, Koenji Orthop. Clinic...S54
- 1-6-S8-3 The role of regional core hospitals in preventing fragility fractures
 *Hideaki Ishibashi*, Dept. of Orthop. Surg., Ina Hosp...S55
- 1-6-S8-4 Secondary fracture prevention in acute phase hospital
 *Takeshi Sawaguchi, et al.*, Dept. of Traumatology, Fukushima Medical Univ. /
 Trauma and Recon. Center, Shin-Yurigaoka General Hosp...S55
- 1-6-S8-5 Secondary fracture prevention in rehabilitation hospital
 *Noriaki Yamamoto*, Dept. of Orthop. Surg., Niigata Reha. Hosp...S56

1st Day May 21 Room 7

8 : 00 ~ 9 : 00	Free papers 6	Moderators H. Yoshida, A. Kimura
Perioperative complication: Spine/miscellaneous		

- 1-7-1 Impact of preoperative GNRI on perioperative outcomes in elderly patients undergoing spinal surgery: A propensity score-matched analysis
 *Yuki Kinoshita*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine...S57
- 1-7-2 Association of the 5-factor modified frailty index with bone and nutritional markers in patients with spinal disorders: Risk of complications *Shinji Saito, et al.*, Dept. of Orthop. Surg.,
 The Kashiwa Hosp. of the Jikei Univ. School of Medicine...S57
- 1-7-3 Controlling nutritional status (CONUT) score severity assessment to predict postoperative complications of spinal fusion in the elderly
 *Yukihito Ode, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ...S58

- 1-7-4 Association between preoperative frailty screening index and postoperative acute complications in orthopaedic surgery patients
 *Yuki Yanagawa, et al.*, Dept. of Orthop./Rehabilitation, Hosogi Hosp.···S58
- 1-7-5 Predictors of social frailty progression in patients with rheumatoid arthritis from a multicenter observational study (T-FLAG study)
 *Mochihito Suzuki, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S59
- 1-7-6 Identification of risk factors associated with postoperative delirium in orthopaedic surgical patients
 *Kentaro Kuwabata, et al.*, Dept. of Orthop. Surg., Japanese Red Cross Kagoshima Hosp.···S59

9 : 15 ~ 10 : 15	Free papers 7 UKA	Moderators H. Takagi, H. Inui
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- 1-7-7 Consideration of component positioning to avoid bearing separation in mobile-bearing UKA (MUKA / Oxford partial knee) *Katsuyuki Imamura, et al.*, Dept. of Orthop. Surg., Tenyoukai Chuo Hosp.···S60
- 1-7-8 Cementless Oxford UKA can avoid subsequent loosening provided perioperative fractures are prevented *Takafumi Hiranaka, et al.*, Dept. of Orthop. Surg. and Joint Surg. Centre, Takatsuki General Hosp.···S60
- 1-7-9 The impact of asymptomatic lateral meniscal tears detected on preoperative MRI on the lateral compartment after medial unicompartmental knee arthroplasty
 *Kairi Matsuoka, et al.*, Dept. of Orthop. Surg., Kagawa Univ.···S61
- 1-7-10 Intraoperative valgus and varus stress angles as independent predictors of postoperative coronal alignment in robotic-assisted unicompartmental knee arthroplasty
 *Kazu Matsumoto, et al.*, Dept. of Orthop. Surg., Gifu Seiryu Hosp.···S61
- 1-7-11 Does the postoperative posterior tibial slope angle in fixed-bearing unicompartmental knee arthroplasty affect anterior stability 5 years after surgery?
 *Kazuhisa Hatayama, et al.*, Dept. of Orthop. Surg., JCHO Gunma Central Hosp.···S62
- 1-7-12 Effect of discrepancy between tibial component alignment and proximal tibial morphology on resection volume in medial unicompartmental knee arthroplasty
 *Shigeshi Mori, et al.*, Dept. of Orthop. Surg., Kindai Univ. Nara Hosp.···S62

10 : 30 ~ 11 : 30	Free papers 8 TKA & UKA	Moderators K. Urabe, H. Horiuchi
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- 1-7-13 Finite element analysis for the effect of alignment change on knee biomechanics after medial pivot total knee arthroplasty
 *Sayako Sakai, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ.···S63
- 1-7-14 Comparison of clinical outcomes between mild correction and correction groups on coronal alignment after TKA for severe varus knees
 *Arata Nakajima, et al.*, Dept. of Orthop. Surg., Toho Univ. (Sakura)···S63
- 1-7-15 Long-term progression of tibial baseplate subsidence in cementless total knee arthroplasty: A 10-year radiographic analysis
 *Tsuyoshi Hamada, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.···S64
- 1-7-16 Impact of postoperative rotational mismatch on dynamic stress curves across the full range of motion in robotic-assisted bi-Cruciate retaining TKA
 *Shogo Horiuchi, et al.*, Ichinomiya Onsen Hosp., Adult Reconstruction & Sports Medicine Center···S64
- 1-7-17 Intraoperative gap assessment in mid-flexion range using the robotic-arm assisted surgery system
 *Yuichiro Kii, et al.*, Sapporo Minami Orthop. Hosp.···S65
- 1-7-18 Impact of femoral component flexion on implant sizing in robotic-assisted unicompartmental knee arthroplasty: A 3D CT-based simulation study
 *Kazuki Sohmiya, et al.*, Dept. of Orthop. Surg., Gifu Seiryu Hosp.···S65

12 : 00 ~ 13 : 10	Luncheon seminar 6	Moderator H. Sugaya
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1-7-LS6 Primary care of cervico-omalgia for shoulder surgeon
 *Shinji Imai*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science...S66

15 : 00 ~ 16 : 00	Free papers 9 TKA 1	Moderators R. Gejo, S. Kuriyama
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1-7-19 Trajectory analysis of prognostic nutritional index after total knee arthroplasty: Association with short-term outcomes *Suguru Kuwata, et al.*, Dept. of Orthop. Surg., Hamada Medical Center...S67

1-7-20 Impact of body mass index on postoperative critical complications after knee arthroplasty
 *Manabu Kawata, et al.*, Dept. of Orthop. Surg.,
 Tokyo Metropolitan Institute for Geriatrics and Gerontology...S67

1-7-21 Prevalence and clinical impact of weather sensitivity after total knee arthroplasty
 *Naoya Kikuchi, et al.*, Dept. of Orthop. Surg., Univ. of Tsukuba...S68

1-7-22 Association between weight change and patient-reported outcomes following total knee arthroplasty
 *Shunya Otani, et al.*, Dept. of Orthop. Surg., Tokyo Women's Medical Univ...S68

1-7-23 Factors associated with physical activity levels and their improvement after total knee arthroplasty
 *Yuki Yamanashi, et al.*, Dept. of Orthop. Surg., Aichi Medical Univ...S69

1-7-24 Association between patient-reported outcomes after total knee arthroplasty and the relationship of patient-designated emergency contacts
 *Kensuke Hotta, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. Hosp...S69

16 : 15 ~ 17 : 15	Free papers 10 Knee: Ligament 1	Moderators M. Kubota, M. Nagashima
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1-7-25 Differences in AM and PL bundles of the anterior cruciate ligament during level walking:
 An *in vivo* VICON-KneeCAS analysis
 *Yutaka Fujita, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine,
 Niigata Univ. Graduate School of Medical and Dental Sciences...S70

1-7-26 The effect of weight-bearing status on kinematics and cruciate ligament force in normal knees
 *Kenichi Kono, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo...S70

1-7-27 Association between graft maturation and medial meniscus extrusion after ACL reconstruction:
 Quantitative MRI study *Yuta Kawae, et al.*, Dept. of Orthop. Surg., Hokkaido Univ. Hosp...S71

1-7-28 Factors associated with residual pivot shift two years after ACL reconstruction: A multicenter study
 *Atsuo Nakamae, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Biomedical and Health Sciences, Hiroshima Univ...S71

1-7-29 Predictors of residual anterior tibial subluxation after anterior cruciate ligament reconstruction
 *Hibiki Kakiage, et al.*, Dept. of Orthop. Surg., Gunma Univ. Graduate School of Medicine...S72

1-7-30 Safety evaluation of ACL reconstruction using decellularized bovine tendon: Initial 5 cases in clinical trial of tissue-regenerative ligament graft
 *Masafumi Itoh, et al.*, Dept. of Orthop. Surg., Tokyo Women's Medical Univ...S72

17 : 30 ~ 18 : 30	Invited lecture 1 (English)	Moderator K. Ono
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1-7-IL1-1 Orthopaedic surgery of hemophilic arthropathy
 *Luigi Piero Solimeno*, Univ. Milan, Dept. of Musculoskeletal Diseases and Physical and
 Rehabilitative Medicine at the Univ. of Milan - Unit of Orthop. and Traumatology at
 the IRCCS Foundation - Ca' Granda - Ospedale Maggiore Policlinico in Milan, Milan, Italy...S73

1-7-IL1-2 Joint health in haemophilia: The importance (and challenge) of early detection to prevent end-stage arthropathy
 *Lize F. Van Vulpen*, Center for Benign Haematology, Thrombosis and Haemostasi,
 Van Creveldkliniek, UMC Utrecht, Utrecht Univ., Utrecht, The Netherlands...S73

1st Day May 21 Room 8

8 : 00 ~ 9 : 00 Free papers 11 AI: Spine 1 Moderators K. Nakanishi, S. Maki

- 1-8-1 Development of a pedicle screw insertion simulator using convolutional neural network and accuracy analysis in idiopathic scoliosis
*Katsuhisa Yamada, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.··S74
- 1-8-2 Generating synthetic lumbar CT myelography from plain CT by a modified cycle generative adversarial network: Quantitative and qualitative evaluation
*Ryo Itoga, et al.*, Dept. of Orthop. Surg., Eniwa Hosp.··S74
- 1-8-3 Development of a machine-learning model for patient satisfaction prediction in lumbar spinal stenosis surgery
*Soya Kawabata, et al.*, Dept. of Orthop. Surg., Fujita Health Univ.··S75
- 1-8-4 An algorithm for generating synthetic lumbar 3D MRI/CT fusion images from only plain CT images using generative adversarial networks
*Terufumi Kokabu, et al.*, Dept. of Orthop. Surg., Eniwa Hosp.··S75
- 1-8-5 Development of an AI based image analysis method for scoliosis screening in medical checkups
*Jun Aoki, et al.*, Univ. of Tsukuba··S76
- 1-8-6 AI-based prediction of postoperative spinal alignment using whole-spine radiographs in adult spinal deformity
*Ryuichiro Nakanishi, et al.*, Dept. of Orthop. Surg., Wakayama Medical Univ.··S76

9 : 15 ~ 10 : 15 Free papers 12 AI: Hip Moderators T. Moro, D. Takahashi

- 1-8-7 Association between post-THA periprosthetic fractures and BMD estimated from preoperative chest radiographs: A study using an AI-assisted osteoporosis diagnostic system
*Hisatoshi Ishikura, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo··S77
- 1-8-8 High correlation between AI-derived CT-based proximal femur BMD and DXA
*Minae Aoyama, et al.*, Dept. of Orthop. Surg., Fukuyama City Hosp.··S77
- 1-8-9 AI-based prediction of pelvic tilt change in THA: Validation and pilot application using paired radiographs
*Koki Abe, et al.*, Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine··S78
- 1-8-10 Building a deep learning-driven ultrasound image recognition tool to support hip arthroscopic surgery
*Shota Higashihira, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. Medical Center··S78
- 1-8-11 Artificial intelligence approach for articular cartilage imaging on plain radiographs
*Kunihiko Oka, et al.*, Dept. of Orthop. Biomaterial Science, Graduate School of Medicine, The Univ. of Osaka··S79
- 1-8-12 Evaluation of the accuracy of computer-assisted eccentric rotational acetabular osteotomy
*Takahiro Negayama, et al.*, Dept. of Orthop. Surg., Kagawa Univ.··S79

10 : 30 ~ 11 : 30 Free papers 13 Moderators S. Nakamura, S. Nakajima
Clinical safety & education

- 1-8-13 Anatomical analysis of anteromedial hip for safe periacetabular osteotomy and acetabular fracture surgery: A cadaveric study
*Hiroyuki Imazato, et al.*, Div. of Orthop. Surg., Dept. of Medicine of Sensory and Motor Organs, Faculty of Medicine, Univ. of Miyazaki··S80
- 1-8-14 Wrong-level spine surgery: A multicenter analysis of 34,544 consecutive cases
*Masayuki Furuya, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka··S80

- 1-8-15 Efficacy of a respiratory complication prevention program (enhanced expectoration bundle) in patients undergoing spinal surgery
 *Tsuyoshi Ota*, Dept. of Orthop. Surg., Saiseikai Kawaguchi General Hosp. ...S81
- 1-8-16 Impact of changes to physical restraint rules on falls during hospitalization
 *Tatsuo Watanabe, et al.*, Dept. of Orthop. Surg., Daido Hosp. ...S81
- 1-8-17 Effect of simulator fidelity on skill acquisition and trainee satisfaction in arthroscopic surgery training : A prospective randomized comparative study
 *Tatsuhiko Kutsuna, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine ...S82
- 1-8-18 Will AI-driven literature summarization change how orthopaedic surgeons learn?
 *Yuichi Imoto, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S82

12 : 00 ~ 13 : 10	Luncheon seminar 7	Moderator Y. Oshima
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- 1-8-LS7-1 Who benefits most from early surgery for cervical spinal cord injury under limited medical resources?
 *Shizumasa Murata, et al.*, Dept. of Emergency and Critical Care Medicine/
 Dept. of Orthop. Surg., Wakayama Medical Univ. ...S83
- 1-8-LS7-2 Surgical selection for cervical spondylotic myelopathy: Age-dependent optimal strategies
 *Masatoshi Teraguchi, et al.*, Dept. of Orthop. Surg., Wakayama Medical Univ. ...S83

15 : 00 ~ 16 : 00	Invited lecture 2 (English)	Moderator A. Kawai
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- 1-8-IL2-1 Precision sarcoma care
 *Jay Wunder*, Orthop. Oncology, Mount Sinai Hosp., Univ. of Toronto, Toronto, Canada ...S84
- 1-8-IL2-2 Prognostic stratification and its clinical implementation in bone and soft-tissue sarcomas: Toward personalized sarcoma care
 *Koichi Ogura*, Dept. of Musculoskeletal Oncology and Rehabilitation Medicine,
 National Cancer Center Hosp. ...S84

16 : 15 ~ 17 : 15	Free papers 14 Sarcopenia/frailty	Moderators E. Nakamura, T. Morimoto
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- 1-8-19 Nutritional proteomics identifies diet-regulated, muscle-associated proteins in UKB & YMoC
 *Go Goto, et al.*, Dept. of Orthop. Surg., Univ. of Yamanashi Hosp. ...S85
- 1-8-20 Oxidative stress as a predictor of sarcopenia progression in community-dwelling older adults: A longitudinal study
 *Hiroaki Ido, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S85
- 1-8-21 Weight gain since early adulthood as a risk factor for mobility decline progression: A 7-year longitudinal study of 10316 adults
 *Takaomi Kobayashi, et al.*, Education and Research Center for Community Medicine,
 Faculty of Medicine, Saga Univ. ...S86
- 1-8-22 Functional reach test values are strongly correlated with height, necessitating height-specific reference values: Musculoskeletal health screening research
 *Junnosuke Arima, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S86
- 1-8-23 Concordance between performance-based sarcopenia diagnosis and the SARC-F screening tool in patients with rheumatoid arthritis
 *Mochihito Suzuki, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S87
- 1-8-24 The assessment of the interaction between haemophilic arthropathy and frailty
 *Kenya Terabe, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S87

17 : 30 ~ 18 : 30	Invited lecture 3 (English)	Moderator K. Ebina
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- 1-8-IL3-1 Pathophysiology and treatment of bone and mineral disorders of fibroblast growth factor 23
*Michael T. Collins*, National Institute of Dental and Craniofacial Research,
 National Institutes of Health, Bethesda, MD, USA...S88
- 1-8-IL3-2 Autoimmune osteomalacia
*Nobuaki Ito*, Div. of Therapeutic, Dept. for Intractable Bone Diseases,
 Graduate School of Medicine, The Univ. of Tokyo...S88

1st Day May 21 Room 9

8 : 00 ~ 9 : 00	Invited lecture 4 (English)	Moderator S. Tanaka
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- 1-9-IL4-1 Novel PTH1R receptor signaling pathways in bone lineage cells reveal a pleiotropic cross-talk
 action of PTH*Roland E. Baron*, Dept. of Medicine, Harvard Medical School,
 Mass. Gen. Hosp. Endocr. Unit, Boston, MA, USA...S89

9 : 15 ~ 10 : 15	Invited lecture 5 (English)	Moderator S. Kato
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- 1-9-IL5-1 Intraoperative neuromonitoring (IONM) for adult spinal deformity surgery
*Stephen J. Lewis*, Dept. of Orthop. Surg.,
 Toronto Western Hosp., Univ. Health Network, Toronto, Canada ...S90
- 1-9-IL5-2 Looking back on 10 years of adult spinal deformity surgery: How to prevent complication
*Yukihiro Matsuyama*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S90

10 : 30 ~ 11 : 30	Invited lecture 6 (English)	Moderator N. Yamamoto
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- 1-9-IL6-1 Advances in shoulder replacement: Achieving optimal motion and longevity with anatomic
 shoulder replacement
*Anthony A. Romeo*, Romeo Orthop., Chicago, IL, USA/Dept. of Orthop. Surg.,
 Rush Univ., Chicago, IL, USA/American Shoulder and Elbow Surgeons...S91
- 1-9-IL6-2 The pathology of rotator cuff tear and its treatment strategy
*Noboru Matsumura*, Dept. of Orthop. Surg., Keio Univ...S91

12 : 00 ~ 13 : 10	Luncheon seminar 8	Moderator M. Ochi
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- 1-9-LS8-1 Possibilities and challenges of autologous cultured cartilage for knee osteoarthritis
*Tomoya Iseki*, Dept. of Orthop. Surg., Hyogo Medical Univ...S92
- 1-9-LS8-2 Appropriate indications for autologous chondrocyte implantation: Associations between patient
 characteristics and outcomes
*Ryuichiro Akagi, et al.*, Knee Surg. Sports Med. Center, Oyumino Central Hosp...S92

15 : 00 ~ 16 : 00	Invited lecture 7 (English)	Moderator H. Koga
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- 1-9-IL7-1 Current concepts in management of meniscus injuries in ACL reconstruction
*Yee Han Dave Lee*, National Univ. Hosp., Singapore, Singapore...S93
- 1-9-IL7-2 Current concepts in management of lateral discoid meniscus
*Yusuke Hashimoto*, Dept. of Sport Sciences, Osaka Univ. of Health and Sport Sciences...S93

16 : 15 ~ 17 : 15	Invited lecture 8 (English)	Moderator N. Haraguchi
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- 1-9-IL8-1 Lisfranc injuries: When to fix, when to fuse, and when to leave alone
*Christopher W. DiGiovanni*, Dept. of Orthop. Surg.,
 MGH, Harvard Medical School, Boston, MA, USA...S94

- 1-9-IL8-2 Anatomical ligament reconstruction for lisfranc joint injuries: Clinical outcomes and future perspectives
 *Hiroyuki Mitsui, et al.*, Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine...S94

17 : 30 ~ 18 : 30 Invited lecture 9 (English) Moderator H. Sugaya

- 1-9-IL9-1 Evolving concepts in the management of primary elbow osteoarthritis: From classification to arthroscopic precision ... *In-Ho Jeon*, Dept. of Orthop. Surg., Asan Medical Center, Seoul, Korea...S95
- 1-9-IL9-2 Pushing the boundaries of superior capsule reconstruction for rotator cuff tears
 *Teruhisa Mihata, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ...S95

1st Day May 21 Room 10

8 : 00 ~ 9 : 00 Free papers 15 Deformity 1 Moderators Y. Matsuyama, S. Kaneko

- 1-10-1 Spine user as a major risk factor for proximal junctional failure after adult spinal deformity: Novel risk stratification *Masayuki Ishihara, et al.*, Dept. of Orthop. Surg., Kansai Medical Univ...S96
- 1-10-2 Analysis of pelvic tilt compensation in spinal kyphosis: Hip and knee contributions to standing and gait posture
 *Keisuke Ishikawa, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine...S96
- 1-10-3 Correlation between nutritional status assessed by the short-form mini-nutritional assessment (MNA-SF) and spinal alignment in adult spinal deformity surgery
 *Kotaro Oda, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Science, Univ. of Yamanashi...S97
- 1-10-4 Does abdominal aortic calcification limit vascular adaptability during kyphosis correction surgery in elderly patients with kyphosis? *Yuko Takeda, et al.*, Dept. of Orthop. Surg., Sonoda 3rd. Hosp...S97
- 1-10-5 Finite element analysis of pedicle screw insertion direction at the upper instrumented vertebra: T7-pelvic adult spinal deformity corrective surgery model
 *Masahiro Ohno, et al.*, Dept. of Orthop. Surg., Scoliosis Center, Osaka City General Hosp...S98
- 1-10-6 Preoperative sacral slope change as a risk factor for mechanical complications after adult spinal deformity surgery
 *Tetsuro Ohba*, Dept. of Orthop. Surg., Graduate School of Medical Science, Univ. of Yamanashi...S98

9 : 15 ~ 10 : 15 Free papers 16 Deformity 2 Moderators K. Fukuda, H. Kanno

- 1-10-7 Prevention of proximal junctional failure in adult spinal deformity surgery: Effectiveness and impact of a bundle approach *Keishi Maruo*, Dept. of Orthop. Surg., Hyogo Medical Univ...S99
- 1-10-8 Longitudinal analysis of trunk and lower limb muscle strength for preventing kyphosis deformity
 *Kozaburo Mizutani, et al.*, Dept. of Orthop. Surg., Asahikawa Medical Univ...S99
- 1-10-9 Postoperative changes in pelvic incidence from difference due to pelvic anchor (iliac-SAD)
 *Nobuki Tanaka, et al.*, Dept. of Orthop. Surg., Univ. of Yamanashi Hosp...S100
- 1-10-10 Early complications in adult spinal deformity surgery: JSIS-DB analysis
 *Junya Katayanagi, et al.*, Database Committee of the Japanese Spinal Instrumentation Society...S100
- 1-10-11 Longitudinal study of radiographic assessment parameters in adult spinal deformity
 *Takuya Murazumi, et al.*, Dept. of Orthop. Surg., Asahikawa Medical Univ...S101
- 1-10-12 Risk factor of proximal junctional failure in adult spinal deformity surgery: The analysis using whole spine sitting radiograph
 *Go Yoshida, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S101

10 : 30 ~ 11 : 30	Instructional lecture 11	Moderator N. Kawamura
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1-10-EL11 Basic principles and technical innovations in spinal tumor or vascular surgery
 *Toshihiro Takami*, Dept. of Neurosurgery, Osaka Medical and Pharmaceutical Univ. ...S102

12 : 00 ~ 13 : 10	Luncheon seminar 9	Moderator Y. Kaneuchi
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1-10-LS9-1 Joint ultrasound for addressing unmet needs in hemophilia treatment
 *Kumiko Ono*, Div. of Therapeutic Dept. for Intractable Bone Diseases,
 Graduate School of Medicine, The Univ. of Tokyo ...S103

1-10-LS9-2 Practical applications of joint ultrasound in pediatrics
 *Koji Hirono*, Diagnostic and Training Center for Pediatric Ultrasound,
 Ibaraki Children's Hosp. ...S103

15 : 00 ~ 16 : 00	Instructional lecture 12	Moderator Y. Oshima
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1-10-EL12 Everything doctors need to know about using ChatGPT
 *Atsushi Otsuka*, Dept. of Dermatology, Kindai Univ. Hosp. ...S104

16 : 15 ~ 17 : 15	Instructional lecture 13	Moderator K. Tamai
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1-10-EL13 Treatment modalities for frozen shoulder and rotator cuff tear. Onset is misleading, but
 resolution is mysterious ... *Shinji Imai*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science ...S104

17 : 30 ~ 18 : 30	Instructional lecture 14	Moderator M. Tanaka
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1-10-EL14 Latest updates in the epidemiology of musculoskeletal disorders: Insights from
 the ROAD study
 *Noriko Yoshimura*, Dept. of Preventive Medicine for Locomotive Organ Disorders,
 22nd Century Medical and Research Center,
 Graduate School of Medicine, The Univ. of Tokyo ...S105

1st Day May 21 Room 11

8 : 00 ~ 9 : 00	Free papers 17	Shoulder arthroplasty	Moderators Y. Shibata, K. Yamakado
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1-11-1 Radiographic evaluation and risk factors for subsidence of press fit short stems in reverse
 shoulder arthroplasty *Rei Nishiura, et al.*, Dept. of Orthop. Surg.,
 Osaka Metropolitan Univ. Graduate School of Medicine ...S106

1-11-2 Three-dimensional scapular kinematics during shoulder abduction after reverse total
 shoulder arthroplasty *Itaru Kawashima, et al.*, Dept. of Orthop. Surg., Yachiyo Hosp. ...S106

1-11-3 Radiographic bone resorption following reverse shoulder arthroplasty: Risk factors in standard vs.
 short stem design *Taisuke Nozu, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ.
 Graduate School of Medicine ...S107

1-11-4 Nationwide trends in reverse shoulder arthroplasty in Japan using the NDB and JOANR data
 *Yota Kin, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo ...S107

1-11-5 Optimal three-dimensional evaluation of glenoid and humeral lateralization after reverse
 shoulder arthroplasty *Eiko Hashimoto, et al.*, Dept. of Orthop. Surg., Chiba Univ. ...S108

1-11-6 Intraoperative evaluation of nerve stress in reverse shoulder arthroplasty using Tc-MEP
 *Junya Hayashi, et al.*, Dept. of Orthop. Surg., Daiwa Central Hosp. ...S108

9 : 15 ~ 10 : 15 Free papers 18 Rotator cuff injury 1 Moderators N. Taniguchi, Y. Nagase

- 1-11-7 Risk factors for tear size and fatty infiltration progression in conservatively treated rotator cuff tears *Yoshihiro Nakamura, et al.*, Dept. of Orthop. Surg., Chugoku Rosai Hosp. ...S109
- 1-11-8 MRI-based epidemiological study of rotator cuff tear in Aomori prefecture: Association with night pain, sleep quality, and psychological status *Eitaro Sato, et al.*, Dept. of Orthop. Surg., JCHO Akita Hosp. ...S109
- 1-11-9 Preoperative serum 25-hydroxyvitamin D levels influence postoperative retears in patients after arthroscopic rotator cuff repair *Rikuto Yoshimizu, et al.*, Dept. of Orthop. Surg., Fukui General Hosp. ...S110
- 1-11-10 The state of rotator cuff repair one year after arthroscopic rotator cuff repair influences clinical outcomes 10 years after surgery *Takeshi Kokubu, et al.*, Dept. of Orthop. Surg., Kobe Medical Center ...S110
- 1-11-11 Association between sagittal spinal alignment parameters and rotator cuff tears in a general population *Takefumi Sakaguchi, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S111
- 1-11-12 Identification of novel oxidative stress-related genes in rotator cuff tears *Kazuki Yoshida, et al.*, Dept. of Orthop. Surg., Juntendo Univ. Urayasu Hosp. ...S111

10 : 30 ~ 11 : 30 Free papers 19 Moderators O. Shirado, R. Ikeguchi
Locomotive syndrome: Progression

- 1-11-13 Age-related lumbar mobility decline and compensatory hip motion in a large community-based cohort: The Wakayama spine study *Hiroki Kishi*, Dept. of Orthop. Surg., Wakayama Medical Univ. ...S112
- 1-11-14 Impact of morphological vertebral fracture on locomotive syndrome, sarcopenia, and physical function in elderly: The Bunkyo Health Study *Shota Tamagawa, et al.*, Dept. of Orthop., Juntendo Univ. ...S112
- 1-11-15 Investigation of locomotive syndrome in mild cases of cervical spondylosis *Ryo Fukata, et al.*, Dept. of Rehabilitation Medicine, Chiba Univ. Hosp. ...S113
- 1-11-16 Association between fractures and health status among independent older adults: Insights from a suburban cohort in Japan *Shuzo Tsujimura, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. ...S113
- 1-11-17 Association between oral frailty and fractures in community-dwelling older adults: A cross-sectional study *Keisuke Ibi, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. ...S114
- 1-11-18 Association between quadriceps muscle strength and the incidence of musculoskeletal disorders involving bone, joint, and muscle: The ROAD study *Toshiko Iidaka, et al.*, Dept. of Preventive Medicine for Locomotive Organ Disorders, 22nd Century Medical and Research Center, Graduate School of Medicine, The Univ. of Tokyo ...S114

12 : 00 ~ 13 : 10 Luncheon seminar 10 Moderator Y. Uchio

- 1-11-LS10 3D-MRI assessment of meniscal morphology in relation to knee osteoarthritis progression *Ichiro Sekiya*, Center for Stem Cell and Regenerative Medicine, Institute of Science Tokyo ...S115

15 : 00 ~ 16 : 00 Free papers 20 Hand & finger joint Moderators T. Wada, N. Iwakura

- 1-11-19 3D motion analysis of the total wrist prosthesis using fresh frozen cadavers *Yuichiro Matsui, et al.*, Faculty of Dental Medicine, Hokkaido Univ. ...S116

- 1-11-20 Optimal implant positioning in total wrist arthroplasty: A CT-based analysis of bone resection, alignment, and postoperative motion *Takeshi Endo, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S116
- 1-11-21 Carpal instability following scaphotrapeziotrapezoid osteoarthritis *Yasunori Hattori, et al.*, Dept. of Orthop. Surg., Ogori Daiichi General Hosp. ...S117
- 1-11-22 New arthroscopy classification in thumb carpometacarpal arthritis and relationship between Eaton classification and magnetic resonance imaging *Hiroshi Sakai, et al.*, Dept. of Orthop. Surg. and Hand Center, Hiratsuka Kyosai Hosp. ...S117
- 1-11-23 Treatment outcomes of surface replacement arthroplasty for proximal interphalangeal joint osteoarthritis using Simmen's volar approach *Shinji Tsuchida, et al.*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine ...S118
- 1-11-24 Implant arthroplasty for osteoarthritis of the distal interphalangeal joint using a volar approach *Takeyasu Toyama, et al.*, Dept. of Orthop. Surg., Kansai Medical Univ. Hosp. ...S118

16 : 15 ~ 17 : 15	Free papers 21	RA 1: Surgery/miscellaneous	Moderators	K. Ikari, S. Asai
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- 1-11-25 Elevated risk of postoperative complications after TKA in rheumatoid arthritis patients: Insights from a Japanese nationwide medical claims database *Hiroshi Hatakeyama, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine ...S119
- 1-11-26 Early postoperative complication risk after total hip arthroplasty in rheumatoid arthritis patients: Analysis of a Japanese nationwide claims database *Yu Mori, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine ...S119
- 1-11-27 Knee-hindfoot alignment interplay and its influence on foot- and ankle-related quality of life in rheumatoid arthritis: A longitudinal cohort study *Yuto Nakanishi, et al.*, Kansai Electric Power Hosp. ...S120
- 1-11-28 Long-term outcomes and patients' satisfaction of silicone implant arthroplasty at the 1st metatarsophalangeal joint for the hallux valgus in RA *Hiroyuki Wada, et al.*, Niigata Rheumatic Center ...S120
- 1-11-29 Development of the Japanese version of rheumatoid arthritis foot disease activity index-5 *Masahiro Horita, et al.*, Dept. of Orthop. Surg., Faculty of Medical Development Field, Okayama Univ. ...S121
- 1-11-30 Autoantibody titer and disease activity in rheumatoid arthritis after mRNA-based vaccination *Takayuki Fujii, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. ...S121

17 : 30 ~ 18 : 30	Free papers 22	RA 2: Locomotive syndrome/frailty/miscellaneous	Moderators	H. Nakamura, T. Mochizuki
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- 1-11-31 Association of oral frailty with nutritional indices in patients with rheumatoid arthritis: A multicenter observational analysis (T-FLAG study) *Mochihito Suzuki, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S122
- 1-11-32 Disproportionate articular pain in rheumatoid arthritis: ANSWER cohort *Koichi Murata, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. ...S122
- 1-11-33 Factors associated with changes in mHAQ in patients with rheumatoid arthritis: A longitudinal study using the FRANK registry *Hidemichi Tanaka, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S123
- 1-11-34 Is the prognostic nutritional index (PNI) a useful indicator of locomotive syndrome in rheumatoid arthritis patients? *Yasumori Sobue, et al.*, Sobue Orthop. Clinic Yatomi ...S123
- 1-11-35 A novel classification tool for detecting residual symptoms in patients with rheumatoid arthritis without swollen or tender joints *Kensuke Koyama, et al.*, Dept. of Rheumatology, Nirasaki City Hosp. ...S124

1st Day May 21 Room 12

8 : 00 ~ 9 : 00 Free papers 23
Severe trauma and infection

Moderators T. Kurozumi, Y. Kobayashi

- 1-12-1 Severity assessment for Gustilo type 3B open fractures of lower limb
..... *Yuta Hayashi, et al.*, Dept. of Musculoskeletal Traumatology and Reconstructive Surg.,
Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S125
- 1-12-2 Current treatment of Gustilo-Anderson Type IIIB open tibial fractures in the Kyushu region:
A multi-center study *Tatsuhiko Muraoka, et al.*, Dept. of Trauma Recon Surg, Yonemori Hosp. ...S125
- 1-12-3 Clinical study of post-traumatic vessel disease in free flap reconstruction for limb trauma
..... *Takuya Yoda, et al.*, Div. of Comprehensive Musculoskeletal Medicine, Niigata Univ. ...S126
- 1-12-4 Evaluation of treatment progress in lower-limb chronic osteomyelitis and infected nonunion with
patient-reported outcomes
..... *Tomoaki Fukui*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S126
- 1-12-5 Efficacy of external fixation for partially unstable pelvic ring fractures: An analysis from the Japan
trauma data bank
..... *Naoya Inagaki, et al.*, Dept. of Orthop. Surg., The Jikei Univ. School of Medicine ...S127
- 1-12-6 Optimal timing of surgery for thoracolumbar spine fractures in polytrauma patients
..... *Keisuke Ishii, et al.*, Trauma and Reconstruction Center, Teikyo Univ. Hosp. ...S127

9 : 15 ~ 10 : 15 Free papers 24 Shoulder and elbow trauma Moderators H. Inoue, A. Mogami

- 1-12-7 Precise fracture anatomy of tuberosities in multi-fragmentary proximal humeral fractures
..... *Kazuya Tamai, et al.*, Dept. of Orthop. Surg., Tohto Bunkyo Hosp. ...S128
- 1-12-8 Surgical treatment of greater tuberosity fracture using suture anchor
..... *Ryosuke Takahashi, et al.*, Dept. of Orthop. Surg., Ichinomiya Nishi Hosp. ...S128
- 1-12-9 The relationship between proximal humeral fracture and deltoid tuberosity index
..... *Yuji Hatakeyama, et al.*, Dept. of Orthop. Surg., Omagari Kosei Medical Center ...S129
- 1-12-10 A new approach for proximal humerus fractures: ALA double incision approach
..... *Masaya Yamaguchi, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. Fujigaoka Hosp. ...S129
- 1-12-11 Proximal humerus fractures: Relationship between humeral head CT values and postoperative
varus deformity *Koji Demiya, et al.*, Dept. of Orthop. Surg., Okayama City Hosp. ...S130
- 1-12-12 Outcomes following treatment of transolecranon fracture-dislocation of the elbow
..... *Kinya Nishida, et al.*, Dept. of Orthop. Surg., Teine Keijinkai Hosp. ...S130

10 : 30 ~ 11 : 30 Instructional lecture 15

Moderator T. Saito

- 1-12-EL15 Diversity and morality: Interdisciplinary management
..... *Ung-il Chung*, The Univ. of Tokyo Graduate Schools of Medicine and Engineering ...S131

12 : 00 ~ 13 : 10 Luncheon seminar 11

Moderator M. Saito

- 1-12-LS11 Can we change the fate of bone?: Based on the latest osteoporosis practice guidelines
..... *Kosuke Ebina, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medicine, The Univ. of Osaka ...S131

15 : 00 ~ 16 : 00 Instructional lecture 16

Moderator K. Nishida

- 1-12-EL16 Design concept and longevity of total elbow arthroplasty
..... *Katsunori Inagaki*, Dept. of Orthop. Surg., Den-en Chofu Central Hosp. ...S132

16 : 15 ~ 17 : 15	Instructional lecture 17	Moderator Y. Sakamoto
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1-12-EL17 Communication and organizational building to provide safe medical care
*Susumu Nakajima*, Toranomon Hosp.···S132

17 : 30 ~ 18 : 30	Instructional lecture 18	Moderator H. Niki
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1-12-EL18 Recent advances in pain management for osteoarthritis of the knee: Focusing on
 interventional therapies
*Masahiko Ikeuchi*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ.···S133

1st Day May 21 Room 13

8 : 00 ~ 9 : 00	Free papers 25 Tumor: Bone tumor	Moderators E. Kobayashi, T. Nakamura
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- 1-13-1 Factors affecting the discrepancy between pre- and postoperative pathological findings
 in chondrosarcoma*Hiroshi Urakawa, et al.*, Dept. of Advanced Medicine, Nagoya Univ. Hosp.···S134
- 1-13-2 Custom-made ceramic spacer as a treatment option for pediatric patients with malignant
 bone tumors*Seiji Shimomura, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp.···S134
- 1-13-3 Risk factors for nonunion after reconstruction with liquid nitrogen-treated autograft in malignant
 tumors of the lower limb long bones*Sei Morinaga, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ.···S135
- 1-13-4 Analysis of infection control rates using continuous local antibiotics perfusion in PJI after bone
 tumor surgery*Tomotaka Yoshida, et al.*, Musculoskeletal Science,
 Yokohama City Univ. Graduate School of Medicine···S135
- 1-13-5 Long-term use of denosumab monotherapy for giant cell tumor of bone: Multi-institutional study by
 Japanese Musculoskeletal Oncology Group
*Yuki Aibara, et al.*, Dept. of Orthop. Surg., Keio Univ.···S136
- 1-13-6 Long-term outcomes of total spondylectomy for giant cell tumor of the mobile spine
*Megumu Kawai, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ.···S136

9 : 15 ~ 10 : 15	Free papers 26 Low back pain	Moderators H. Yamada, Y. Sato
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- 1-13-7 Is a history of low back pain associated with a decline in QOL in children as well as in adults?
*Toru Hirano, et al.*, Dept. of Orthop. Surg.,
 Uonuma Institute of Community Medicine, Niigata Univ. Medical and Dental Hosp.···S137
- 1-13-8 Adult attention-deficit/hyperactivity disorder as a risk factor for chronic low back pain
*Masayoshi Iwamae, et al.*, Dept. of Orthop. Surg.,
 Osaka Metropolitan Univ. Graduate School of Medicine···S137
- 1-13-9 Longitudinal changes in trunk muscle mass and association with sagittal alignment and low back
 pain: A prospective cohort study*Yuki Okamura, et al.*, Dept. of Orthop. Surg.,
 Osaka Metropolitan Univ. Graduate School of Medicine···S138
- 1-13-10 Functional disability mediates the association between low back pain and sleep disturbance:
 Evidence from a population-based study in Japan
*Soya Kawabata, et al.*, Dept. of Orthop. Surg., Fujita Health Univ.···S138
- 1-13-11 7 years follow-up: Relationship between changes in low back pain and spinal phenotypes in the
 Wakayama spine study
*Shigetada Nakatsuka, et al.*, Dept. of Orthop. Surg., Wakayama Medical Univ.···S139

1-13-12 Association between lifestyle-related factors and low back pain: Evidence from a Japanese population-based study *Soya Kawabata, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. ...S139

10 : 30 ~ 11 : 30	Free papers 27 Lumbar spine	Moderators Y. Aoki, K. Nakanishi
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- 1-13-13 A novel ‘three-dimensional tent method’ for maintaining surgical field sterility in OLIF procedures *Akira Nakajima, et al.*, Kimura Hosp. ...S140
- 1-13-14 Enlarged bone marrow edema on MRI at 3 months after TLIF has a negative impact on intervertebral bone fusion *Satoshi Komatsubara, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S140
- 1-13-15 Long-term outcomes of spinal surgery in achondroplasia: A minimum 5-year follow-up study *Hiroyuki Nakarai, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo ...S141
- 1-13-16 Low vertebral Hounsfield unit values predict nonunion after single-level posterior lumbar interbody fusion *Kazuma Kitaguchi, et al.*, Dept. of Orthop. Surg., Sumitomo Hosp. ...S141
- 1-13-17 Extra-foraminal stenosis at the lumbosacral junction *Shigeki Urayama, et al.*, Dept. of Orthop. Surg., Mizuno Memorial Hosp. ...S142
- 1-13-18 PRP injection therapy for single-level lumbar disc disorder: Identification of predictive factors for treatment efficacy *Koji Akeda, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S142

12 : 00 ~ 13 : 10	Luncheon seminar 12	Moderator N. Takahashi
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1-13-LS12 Ultrasound-MRI fusion in orthopaedics: A new world of anatomical insight with smart fusion *Toru Omodani*, Tokyo Advanced Orthop. ...S143

15 : 00 ~ 16 : 00	Free papers 28 Spinal cord monitoring	Moderators H. Haro, G. Yoshida
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- 1-13-19 Assessment of F-waves under remimazolam in spine and spinal cord surgery *Sachiko Kawasaki, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S144
- 1-13-20 Flowchart and checklist for transcranial motor-evoked potential alarm for reducing true- positive and false- positive cases: A prospective multicenter study *Hideki Shigematsu, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S144
- 1-13-21 Preoperative neurological deficits, prolonged, and thoracic-level surgeries increase false-positive rates in Tc-MEP monitoring: A prospective multi-center analysis of 13,743 cases *Hiroki Ushirozako, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine ...S145
- 1-13-22 Longitudinal changes in Tc-MEP monitoring and the rescue rates in cervical OPLL surgery: A multi-center prospective analysis *Hiroki Ushirozako, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine ...S145
- 1-13-23 Comparative analysis of fusion and decompression surgery in degenerative cervical myelopathy *Masahiro Funaba, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine ...S146
- 1-13-24 Intraoperative monitoring of external urethral and anal sphincters in lumbar surgery: Sacral innervation and lumbar pathology impact *Yoshikazu Yanagisawa*, Dept. of Orthop., Surg., Fukuoka Mirai Hosp. ...S146

16 : 15 ~ 17 : 15	Free papers 29	Moderators S. Tsukushi, M. Emori
Tumor: Soft tissue sarcoma 1		

- 1-13-25 Incidence and prognostic impact of regional lymph node metastasis at the time of diagnosis in soft tissue sarcoma *Hiroshi Kobayashi, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo ...S147
- 1-13-26 Clinicopathological assessment of cancer/Testis antigens NY-ESO-1 and MAGE-A4 in highly aggressive soft tissue sarcomas *Kazuhiko Hashimoto, et al.*, Dept. of Orthop. Surg., Kindai Univ. Hosp. ...S147

- 1-13-27 In 94% of cases with lipomatous tumors, needle biopsy enabled accurate preoperative differentiation between benign and malignant lesions
 *Seiichi Matsumoto, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. ...S148
- 1-13-28 Is sarculator useful in predicting prognosis of retroperitoneal sarcoma?
 *Akira Shiga, et al.*, Dept. of Musculoskeletal Tumor Surg., Kanagawa Cancer Center ...S148
- 1-13-29 Comparative analysis of a dual DNA-RNA panel and a DNA-only panel for sarcoma: Real-world data from a nationwide genomic database
 *Eiji Nakada, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S149
- 1-13-30 The significance of genetic alterations in translocation-associated soft tissue sarcomas: An analysis using the C-CAT database *Hidetatsu Otani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka ...S149

17 : 30 ~ 18 : 30	Free papers 30 Spinal tumor	Moderators S. Kato, S. Sugita
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- 1-13-31 Predictive valuables of adverse events following surgery for spinal metastasis
 *Kazuto Miura, et al.*, Dept. of Spine and Spinal Cord Surg., Nagaoka Red Cross Hosp. ...S150
- 1-13-32 Neurological prognosis of spinal metastasis causing neurological symptoms in patients with previously untreated prostate cancer
 *Hirokazu Shoji, et al.*, Dept. of Orthop. Surg., Niigata City General Hosp. ...S150
- 1-13-33 Preoperative denosumab administration in patients with giant cell tumor of bone in spine: Data from JMOG *Takeshi Morii, et al.*, Dept. of Orthop. Surg., Kyorin Univ. ...S151
- 1-13-34 Development and validation of a one-year survival prediction score for spinal metastasis surgery: A JASA multicenter study *Sadayuki Ito, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S151
- 1-13-35 Change in pain and its effect for activities of daily living after surgical treatment for spinal metastasis *Akinobu Suzuki, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine ...S152
- 1-13-36 Predictors of 3-month mortality after surgery for metastatic spinal tumors: JASA multicenter study *Takaaki Uto, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S152

1st Day May 21 Poster Room 1

9 : 15 ~ 9 : 55	Poster presentation (English) 1 Hip and trauma	Moderator Y. Okanoue
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- 1-Po-1 A new reduction technique for calcaneal fractures in plate fixation with sinus tarsi approach
 *Hozumi Kumano, et al.*, Dept. of Orthop. Surg., Shiroyama Hosp. ...S153
- 1-Po-2 Long-term results of the metaphyseal-loading anterolaterally flared anatomic femoral stem for total hip arthroplasty *Makoto Kitade*, Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui ...S153
- 1-Po-3 Autogenous acetabular cancellous bone impaction grafting in uncemented total hip arthroplasty for high-grade developmental dysplasia: Cancellous versus structural grafts
 *Masashi Kawasaki, et al.*, Dept. of Orthop. Surg., Konan Kosei Hosp. ...S154
- 1-Po-4 Canceled
- 1-Po-5 Trajectories of quality of life after geriatric hip fracture surgery: A growth mixture modelling approach *Tu Thai Bao Nguyen, et al.*, Dept. of Orthop., Faculty of Medicine, Can Tho Univ. of Medicine and Pharmacy, Can Tho, Vietnam ...S155

- 1-Po-6 Comparison of clinical outcomes of proximal femoral nail vs. proximal femoral nail antirotation 2 in unstable intertrochanteric femur fractures
 *Deepanjan Das, et al.*, Dept. of Orthop., All India Institute of Medical Sciences, Nagpur, India...S155
- 1-Po-7 Periprosthetic femoral fractures: More comminution and stem loosening with cemented implants: A retrospective cohort study
 *Colin G. Murphy, et al.*, Dept. of Orthop. Surg., Galway Univ. Hosp., Galway, Ireland...S156
- 1-Po-8 Canceled

10 : 05 ~ 10 : 40	Poster presentation (English) 2	Moderator Y. Oshima
Knee, sports, and others		

- 1-Po-9 Second-look arthroscopic evaluation and return-to-sports after autogenous cultured cartilage implantation (JACC) combined with around knee osteotomy (AKO)
 *Masahiko Kobayashi, et al.*, Dept. of Orthop. Surg., Kyoto Shimogamo Hosp...S157
- 1-Po-10 Midterm patient-reported outcomes after robotic-assisted vs. conventional TKA: A 2.5-year Oxford knee score analysis
 *Sanjay B. Londhe, et al.*, Dept. of Orthop., Criticare Asia Hosp., Malad West, Mumbai, India...S157
- 1-Po-11 The efficacy of Oranexidine gluconate and Povidone-Iodine as surgical skin antiseptics for preventing surgical site infections in joint reconstruction surgery
 *Shuya Matsumoto, et al.*, Dept. of Orthop. Surg., Nishinomiya Kaisei Hosp...S158
- 1-Po-12 Femoral tunnel drilling using a posteromedial portal technique in pediatric anterior cruciate ligament reconstruction enables preserving femoral epiphyseal line
 *Aguri Kamitani, et al.*, Dept. of Orthop. Surg., JCHO Kyoto Kuramaguchi Medical Center...S158
- 1-Po-13 Outcomes of an early return-to-throwing strategy following conservative treatment for capitellar osteochondritis dissecans involving the lateral column
 *Hyung Lae Cho, et al.*, Dept. of Orthop. Surg., Good Samsun Hosp., Busan, Korea...S159
- 1-Po-14 Relationship between the distance from the tumor to major blood vessels and prognosis of deep soft tissue sarcomas *Tadashi Iwai, et al.*, Dept. of Orthop. Surg., Yodogawa Christian Hosp...S159
- 1-Po-15 Robotic-arm assisted total knee arthroplasty is associated with improved surgical and post-operative outcomes compared with imageless computer-navigation: A matched-pair study
 *Mei Lin Tay, et al.*, Dept. of Orthop. Surg., North Shore Hosp., Auckland, New Zealand...S160

10 : 55 ~ 11 : 30	Poster presentation (English) 3 Spine	Moderator Y. Murata
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- 1-Po-16 Canceled
- 1-Po-17 Effect of fragility vertebral fracture on intravertebral and intraskeletal fat mass and bone mineral density in elderly women
 *Yuji Kasukawa, et al.*, Dept. of Rehabilitation Medicine, Akita Univ. Hosp...S161
- 1-Po-18 The impact of metabolic dysfunction-associated steatotic liver disease (MASLD) on spinal ligament ossification: A risk factor for OPLL progression
 *Huohuo Xue, et al.*, Dept. of Orthop. Surg., Hokkaido Univ. Graduate School of Medicine...S162
- 1-Po-19 Biomechanical comparison of a novel facet joint fusion fixation device with conventional pedicle screw fixation device: A finite element analysis
 *Yang Zhang, et al.*, Dept. of Orthop. Surg., Xijing Hosp., Xi'an, China...S162
- 1-Po-20 Canceled
- 1-Po-21 Heterogeneous patterns of sacroiliac joint degeneration and their distinct associations with global spinal alignment
 *Masahiko Furuya, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S163
- 1-Po-22 Influence on physical activities of short segmental lumbar surgery
 *Ryota Kimura, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine...S164

15 : 00 ~ 15 : 35 Poster presentation 4 Upper limb trauma Moderator K. Kawasaki

- 1-Po-23 Characteristics of patients receiving long-term care certification following surgery for distal radius fractures at our hospital
 *So Kawakita, et al.*, Dept. of Orthop. and Spine Surg., Koshigaya Municipal Hosp.···S165
- 1-Po-24 Locking plate assisted osteotomy for the malunion of the distal radius fractures
 *Hidemasa Yoneda, et al.*, Div. of Human Enhancement & Hand Surg.,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ.···S165
- 1-Po-25 Clinical result of RSA for proximal humeral fracture: Predicted by preoperative factors
 *Naoya Kubota*, Saiseikai Senri Hosp.···S166
- 1-Po-26 Evaluation of screw insertion position via the Neviaser portal for glenoid fractures
 *Tetsushi Yuguchi, et al.*, Dept. of Orthop. Surg., Nagoya Tokushukai General Hosp.···S166
- 1-Po-27 Surgery with artificial ligament and hook plate for distal clavicle fractures
 *Shunichi Seki, et al.*, Dept. of Orthop. Surg., Aizawa Hosp.···S167
- 1-Po-28 Clinical results of arthroscopic coracoclavicular ligament reconstruction using Low-Profile AC Repair System for distal clavicle fracture type 5
 *Hironori Yamazaki, et al.*, Dept. of Orthop. Surg., Chiba Medical Center···S167
- 1-Po-29 Postoperative results of twin anchor footprint fixation (TAFF) for anterior glenoid rim fractures
 *Yoichi Horike, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. Fujigaoka Hosp.···S168

15 : 50 ~ 16 : 25 Poster presentation 5 Hip fracture 1: Treatment Moderator Y. Ueda

- 1-Po-30 What factors prevent earning incentive under the Japanese best practice tariff for the geriatric hip fracture early surgery
 *Junya Mukai, et al.*, Dept. of Orthop. Surg., Nagasaki Medical Center···S169
- 1-Po-31 Impact of cement augmentation of proximal femoral nail on postoperative activities of daily living in intertrochanteric fractures
 *Ryotaro Kondo, et al.*, Dept. of Orthop. Surg., Matsusaka Municipal Hosp.···S169
- 1-Po-32 Comparative radiographic evaluation of cementless BHA using full HA compaction stems and Zweymuller-Type stems for femoral neck fractures
 *Mitsutaka Hoshi, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ. Hosp.···S170
- 1-Po-33 Three-dimensional assessment of optimal insertion point of intramedullary nail in the femur of elderly Japanese *Yosuke Nagai, et al.*, Dept. of Orthop. Surg.,
 Osaka Metropolitan Univ. Graduate School of Medicine···S170
- 1-Po-34 Short-term outcomes of Y-blade lag screw-assisted middle-length nail fixation in unstable intertrochanteric femoral fractures
 *Takashi Iwakura, et al.*, Dept. of Orthop. Surg., Sanda City Hosp.···S171
- 1-Po-35 Comparison of life prognosis for proximal femoral fractures with conservative treatment or surgical treatment
 *Toshikatsu Tominaga, et al.*, Dept. of Orthop. Surg., Yamaguchi Rosai Hosp.···S171
- 1-Po-36 Clinical characteristics of contralateral proximal femoral refractures after fracture liaison service (FLS) intervention at our institution
 *Go Sakai, et al.*, Dept. of Orthop. Surg., Komaki City Hosp.···S172

16 : 40 ~ 17 : 15 Poster presentation 6 Hip fracture 2: Prognosis Moderator M. Yorimitsu

- 1-Po-37 The evaluation of trabecular bone in the patients with subchondral inefficiency fracture of femoral head *Shuhei Yamasaki, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Biomedical and Health Sciences, Hiroshima Univ.···S173

- 1-Po-38 Association of GNRI with bone mineral density and bone metabolism markers in patients with hip fractures *Minae Aoyama, et al.*, Dept. of Orthop. Surg., Fukuyama City Hosp. ...S173
- 1-Po-39 Association between subcapital fracture and bone quality in nondisplaced femoral neck fractures: An analysis using CT attenuation values *Kazuki Hirose, et al.*, Dept. of Orthop. Surg., Kochi Health Sciences Center ...S174
- 1-Po-40 Canceled
- 1-Po-41 The utility of ultrasound measurement of quadriceps thickness in hip fracture patients: Comparison of quadriceps thickness and PMI *Kohei Sato, et al.*, Dept. of Orthop. Surg., Onomichi Municipal Hosp. ...S175
- 1-Po-42 Low PNI and low BMI are prognostic factors for aspiration pneumonia and poor discharge CAS in patients with trochanteric fractures *Yoshiharu Sugiyama, et al.*, Dept. of Orthop. Surg., Shizuoka City Shizuoka Hosp. ...S175
- 1-Po-43 Prognostic factors for ambulatory status over 90 years old patients with proximal femoral fractures *Akihito Suto, et al.*, Dept. of Orthop. Surg., Kasumigaura Medical Center ...S176

17 : 30 ~ 18 : 05	Poster presentation 7 Trunk and lower limb trauma	Moderator H. Morii
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- 1-Po-44 Periprosthetic femoral fractures after BHA: 30% mortality and systemic predictors of prognosis (TRON study) *Koki Miyagawa, et al.*, Dept. of Orthop. Surg., Tono Kosei Hosp. ...S177
- 1-Po-45 Surgical versus conservative management of acetabular fractures in the elderly: A multicenter comparative study of clinical and radiographic outcomes *Yohei Oguchi, et al.*, Dept. of Orthop. Surg., Handa City Hosp. ...S177
- 1-Po-46 Risk factors for anterior ring nonunion following transiliac rod and screw fixation (TIRF) for pelvic ring fractures *Yu Fujiwara, et al.*, Dept. of Orthop. Surg., Hyogo Emergency Medical Center ...S178
- 1-Po-47 Temporal changes in water density during the healing process of sacral fractures: A quantitative evaluation using dual-energy CT (DECT) *Takahiro Oda, et al.*, Dept. of Orthop. Surg., Hyogo Prefectural Nishinomiya Hosp. ...S178
- 1-Po-48 Preventive effect of early balloon kyphoplasty on deformity progression of thoracolumbar osteoporotic vertebral fracture *Junichi Yamada, et al.*, Dept. of Orthop. Surg., Matsusaka Municipal Hosp. ...S179
- 1-Po-49 Changes of safe zone in tibia nail insertion with knee flexion and extension *Yusuke Mochizuki, et al.*, Dept. of Emergency Healthcare and Disaster Medicine, Okayama Univ. Hosp. ...S179
- 1-Po-50 Two-stage Masquelet technique for segmental bone defects: Retrospective analysis stratified by preoperative infection *Kenichi Sawauchi, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S180

1st Day May 21 Poster Room 2

9 : 15 ~ 9 : 50	Poster presentation 8	Moderator D. Araki
Locomotive syndrome: Children/miscellaneous		

- 1-Po-51 Association between exercise history during growth spurt and knee deformity and musculoskeletal system *Kenji Nakamura, et al.*, Dept. of Orthop., Juntendo Univ. ...S181
- 1-Po-52 Neck stiffness in school-age children is related to health status but poor posture: KID Locomo study *Makiko Onishi, et al.*, Dept. of Orthop. Surg., Wakayama Medical Univ. ...S181
- 1-Po-53 Development of a self-help device for paralyzed hands with replaceable tip parts using a 3D printer *Hideo Takata, et al.*, Dept. of Orthop. Surg., Kouseiren Namerikawa Hosp. ...S182

- 1-Po-54 Verification of the improvement of motor function in elementary school students using a robot operated by balance ability *Takuya Tajima, et al.*, Div. of Orthop. Surg., Dept. of Medicine of Sensory and Motor Organs, Faculty of Medicine, Univ. of Miyazaki...S182
- 1-Po-55 Does bicruciate-retaining design improve post-operative gait ability compared to bicruciate-stabilized design in robotic-assisted TKA?: A propensity score-matched study *Masaru Omata, et al.*, Ichinomiya Onsen Hosp., Adult Reconstruction & Sports Medicine Center...S183
- 1-Po-56 Evaluation of gait parameters during stair ascent and level walking after total hip arthroplasty *Hiroyuki Morita, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ....S183
- 1-Po-57 Association between early menopause and musculoskeletal degenerative diseases in community-dwelling women: From the Yakumo study *Shinya Tanaka, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ....S184

10 : 05 ~ 10 : 40 Poster presentation 9 Locomotive syndrome: Elderly Moderator T. Furuya

- 1-Po-58 Comparison of MCID and stage-based GLFS-25 assessment of surgical outcomes in older patients with lumbar spinal stenosis *Yuki Akaike, et al.*, Dept. of Orthop. Surg., Fujita Health Univ....S185
- 1-Po-59 GLFS-25's improved predictive ability for long-term care certification and its longitudinal comparison with the kihon checklist: A 4-year cohort study *Koichiro Ide, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S185
- 1-Po-60 Lower extremity muscle strength level required to maintain level 1 locomotive function *Katsuhiko Maezawa, et al.*, Dept. of Orthop. Surg., Juntendo Univ. Urayasu Hosp....S186
- 1-Po-61 Impact of locomotive syndrome stage 3 on oral function measures in community-dwelling older adults *Takahiro Shimizu, et al.*, Dept. of Orthop., Jichi Medical Univ....S186
- 1-Po-62 Longitudinal changes in physical function and strategies for intervention in community-dwelling older adults *Anzu Nakamae, et al.*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ....S187
- 1-Po-63 Multiple geriatric comparison of older surgical patients with degenerative cervical and lumbar diseases: A retrospective longitudinal study *Ryosuke Kurihara, et al.*, Dept. of Orthop. Surg., Fujita Health Univ....S187
- 1-Po-64 Positive correlation between distal radius bone mineral density and body fat percentage *Hiroyuki Yokota, et al.*, Dept. of Orthop. Surg., Showa Medical Univ....S188

10 : 55 ~ 11 : 30 Poster presentation 10 Foot & ankle Moderator K. Ikoma

- 1-Po-65 Examination of the pain relief effect of insoles on hallux valgus *Akira Abe*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ....S189
- 1-Po-66 Relationship between hallux valgus angle, pain, and walking ability after hallux valgus deformity correctio surgery *Yuto Murakami, et al.*, Dept. of Orthop. Surg., Teikyo Univ. Hosp., Mizonokuchi...S189
- 1-Po-67 Temporal changes in ankle pain before and after total knee arthroplasty *Tatsuya Sakai, et al.*, Dept. of Orthop. Surg., Saga Univ....S190
- 1-Po-68 The effectiveness of arthroscopic debridement combined with platelet-rich plasma therapy for advanced ankle osteoarthritis *Taihei Miura, et al.*, Dept. of Orthop. Surg., JCHO Hoshigaoka Medical Center...S190
- 1-Po-69 The relationship between talar bone mineral density as measured by CT and talar component subsidence after total ankle arthroplasty *Masamune Kamachi, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S191

- 1-Po-70 Associations between preoperative psychological factors and 1-year outcomes in foot and ankle surgery *Takahisa Ogawa, et al.*, East Maebashi Orthop. Hosp. ...S191
- 1-Po-71 Impact of lowering the statistical significance threshold to $p < 0.005$ in foot and ankle randomized controlled trials: Analysis of 123 trials
..... *Yoshiharu Shimozono, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. ...S192

15 : 00 ~ 15 : 35	Poster presentation 11 Sports: Knee	Moderator A. Nakamae
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- 1-Po-72 Blumensaat's line morphology does not influence the area of the lateral wall of the femoral intercondylar notch *Yoshiyuki Yahagi, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S193
- 1-Po-73 Factors contributing to graft maturity in anatomic double-bundle ACL reconstruction
..... *Yuki Dohi, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine ...S193
- 1-Po-74 Effects of remnant preservation in ACL reconstruction on postoperative rotational knee instability and cyclops lesions
..... *Kyohei Ota, et al.*, Dept. of Orthop. Surg., Nagoya City Univ. Hosp. ...S194
- 1-Po-75 Clinical outcomes and temporal changes in muscle strength and MRI cross-sectional area following quadriceps tendon ACL reconstruction
..... *Keisuke Maeda*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences ...S194
- 1-Po-76 Investigation of the relationship between ramp lesions and posterior tibial bone bruises associated with anterior cruciate ligament injuries
..... *Yuhei Otsuki, et al.*, Dept. of Orthop. Surg., Kobe Univ. Hosp. ...S195
- 1-Po-77 Coronal alignment patterns and its association with meniscal injury in primary anterior cruciate ligament tears: The Chiba LEAF study
..... *Shun Fukushima, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S195
- 1-Po-78 The development of a technique in osteochondral autograft transplantation using an ultra-purified alginate gel in a canine chondral defect model
..... *Ryosuke Hishimura, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S196

15 : 50 ~ 16 : 25	Poster presentation 12 Sports: Lower limb	Moderator N. Kanzaki
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- 1-Po-79 Ligament-injury grading in ankle sprain is not prognostic: Discordance with a swelling- and range-of-motion-based classification
..... *Toshiro Shima, et al.*, Teikyo Univ. Institute of Sports Sciences & Medicine ...S197
- 1-Po-80 Ankle sprain severity beyond ligament grading: Immediate PROMs reflect swelling and range-of-motion limits
..... *Toshiro Shima, et al.*, Teikyo Univ. Institute of Sports Sciences & Medicine ...S197
- 1-Po-81 Patient-reported scores show wide individual variation and may mislead early severity assessment in acute ankle sprain
..... *Toshiro Shima, et al.*, Teikyo Univ. Institute of Sports Sciences & Medicine ...S198
- 1-Po-82 Relationship between talus morphology and subchondral bone sclerosis in the medial gutter of chronic ankle instability *Shunsuke Nakamura, et al.*, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ. ...S198
- 1-Po-83 Comparison of clinical outcomes of osteochondral fixation with and without medial malleolar osteotomy in medial osteochondral lesion of the talus
..... *Tomoyuki Nakasa, et al.*, Dept. of Artificial Joints and Biomaterials, Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S199
- 1-Po-84 Current clinical practice for sports injuries and trauma of the ankle and foot in elite university rugby players *Yusuke Hirahata, et al.*, Teikyo Univ. Institute of Sports Sciences & Medicine ...S199

1-Po-85 Diagnostic accuracy of the tibial fulcrum bending test and its correlation with MRI findings in tibial bone stress injuries *Naotaka Mamizuka, et al.*, Baseball & Sports Clinic...S200

16 : 40 ~ 17 : 15	Poster presentation 13 Scoliosis	Moderator A. Matsumura
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1-Po-86 Effects of backpack load on sagittal spinal alignment in school children *Kiyoshi Higa, et al.*, Div. of Orthop. Surg., Dept. of Medicine of Sensory and Motor Organs, Faculty of Medicine, Univ. of Miyazaki...S201

1-Po-87 What are the conditions for curve improvement in brace treatment for adolescent idiopathic scoliosis?: A retrospective study of 242 cases *Juri Teramoto, et al.*, Dept. of Orthop., Juntendo Univ...S201

1-Po-88 Two-year computed tomography evaluation of non-union in posterior spinal fusion for adolescent idiopathic scoliosis: Risk zones and clinical outcomes *Hiroki Oba, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S202

1-Po-89 Effectiveness of dual rod translation in thoracic kyphosis restoration for AIS: A comparison with the conventional technique *Yusuke Hori, et al.*, Dept. of Orthop. Surg., Scoliosis Center, Osaka City General Hosp...S202

1-Po-90 Changes in thoracolumbar/lumbar curve in Lenke Type 5C AIS undergoing selective short anterior fusion *Daiki Kitamura, et al.*, Dept. of Orthop. Surg., Dokkyo Medical Univ...S203

1-Po-91 Dedicated spine teams are more efficient and improves peri-operative outcomes in idiopathic scoliosis surgery: A propensity score-matched study *Masayoshi Iwamae, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine...S203

1-Po-92 Impact of brace noncompliance and risk factors for Cobb angle progression in adolescent idiopathic scoliosis *Masaya Mizutani, et al.*, Dept. of Orthop. Surg., Chiba Univ. Hosp...S204

17 : 30 ~ 18 : 05	Poster presentation 14 Spine: Bone	Moderator T. Kaito
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1-Po-93 Diagnosis of traumatic vertebral fractures based on Hounsfield unit values *Takeru Akabane, et al.*, Dept. of Orthop. Surg., Yamagata Univ...S205

1-Po-94 Comparison of lumbar Hounsfield units and DXA for predicting adjacent vertebral fracture after percutaneous vertebroplasty *Hiroshi Kawaguchi, et al.*, Dept. of Orthop. Surg., Nippon Medical School Chiba Hokuso Hosp...S205

1-Po-95 A novel scoring system incorporating Hounsfield unit values for predicting adjacent vertebral fractures following balloon kyphoplasty *Koji Matsumoto, et al.*, Dept. of Orthop. Surg., Nihon Univ...S206

1-Po-96 Relationship between osteoporosis-related complications and preoperative HU value and VBQ score after posterior lumbar interbody fusion *Katsuhito Kiyasu, et al.*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ...S206

1-Po-97 The convex side in degenerative lumbar scoliosis has lower HU values, leading to an increased risk of screw loosening *Shuji Yamamoto, et al.*, Dept. of Orthop. Surg., Kagawa Univ. Hosp...S207

1-Po-98 Survey of relationship between prevalent vertebral fractures and bone strength evaluation indicators (DXA, TBS, CT Values) in whole spine CT *Naoya Kondo, et al.*, Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine...S207

1-Po-99 ucOC is associated with bone turnover markers and bone mineral density in patients undergoing spinal surgery *Daisuke Kudo, et al.*, Dept. of Rehabilitation Medicine, Akita Univ. Hosp...S208

1st Day May 21 Poster Room 3

9 : 15 ~ 9 : 50 Poster presentation 15 Basic research 1 Moderator T. Onodera

- 1-Po-100 Persistent subchondral bone loss in the rat modified cuff tear arthropathy model, unlike in the knee osteoarthritis model
*Takayuki Ide, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical and Dental Sciences, Kagoshima Univ.···S209
- 1-Po-101 Senescent cell emergence is prominent in the greater tuberosity in a rat modified cuff tear arthropathy (mCTA) model
*Kento Shimano, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical and Dental Sciences, Kagoshima Univ.···S209
- 1-Po-102 Mirogabalin besylate improves peripheral nerve axon regenerative capacity with aging
*Kenjiro Kawamura, et al.*, Dept. of Orthop., Juntendo Univ.···S210
- 1-Po-103 Development of a new treatment for osteoporotic vertebral fractures using adipose-derived stem cell spheroids
*Yuta Sawada, et al.*, Dept. of Orthop. Surg.,
 Osaka Metropolitan Univ. Graduate School of Medicine···S210
- 1-Po-104 Development of a novel diagnostic technique using 17-O labeled water MRI for early cartilage degeneration: Large animal preclinical study
*Keizumi Matsugasaki, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S211
- 1-Po-105 Evaluation of the effects of hydrogen peroxide and LED irradiation on biofilms of clinical isolates from orthopaedic infections
*Hiroto Kono, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. Hosp.···S211
- 1-Po-106 NKG2D signaling promotes IL-17A production of gamma delta T cells and enhances bone formation
*Hitoshi Toyoda, et al.*, Dept. of Orthop. Surg., Showa Medical Univ.···S212

10 : 05 ~ 10 : 40 Poster presentation 16 Basic research 2 Moderator S. Orita

- 1-Po-107 Relationship between synovial lymphatic vessels and synovial fluid volume in knee joint
*Shintaro Ichikawa, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine···S213
- 1-Po-108 A new functional evaluation method for thumb palmar abduction using a smartphone application
*Toshimitsu Sato, et al.*, Dept. of Orthop. Surg., Teikyo Univ.···S213
- 1-Po-109 Quantification of the fixation of artificial hip acetabular cup using laser resonance frequency analysis
*Asahi Sujino, et al.*, Dept. of Orthop. Surg., Keio Univ.···S214
- 1-Po-110 The effect of medial proximal tibial angle on onset or progression of knee osteoarthritis: 25 years case control study
*Yu Matsuura, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S214
- 1-Po-111 Dysfunction of anticipatory postural adjustments in patients with rotator cuff tears
*Fukuhisa Ino, et al.*, Dept. of Orthop. Surg., Gunma Univ. Hosp.···S215
- 1-Po-112 A novel rat adjacent disc degeneration model by the development of lumbar spinal fixation with pedicle screws
*Takuya Yabumoto, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S215
- 1-Po-113 Differences in proximal femoral stress distribution between normal and osteoporotic composite bone models: A study using thermoelastic stress analysis
*Ryunosuke Watanabe, et al.*, Dept. of Orthop. Surg., Univ. of Tsukuba Hosp.···S216

10 : 55 ~ 11 : 30

Poster presentation 17 RA: Therapeutic drug

Moderator N. Nakagawa

- 1-Po-114 Predictors of discontinuation of JAK inhibitors in patients with rheumatoid arthritis
 *Keita Naruse, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.S217
- 1-Po-115 Early treatment response to JAK inhibitors versus IL-6 inhibitors in rheumatoid arthritis
 *Katsuaki Onishi, et al.*, Dept. of Orthop. Surg.,
 Osaka Metropolitan Univ. Graduate School of MedicineS217
- 1-Po-116 Comparative risk of herpes zoster among five JAK inhibitors in real-world data: Analysis from
 the Kansai multicenter ANSWER cohort
 *Yuki Etani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of OsakaS218
- 1-Po-117 Comparative efficacy of JAK inhibitors in rheumatoid arthritis patients with renal impairment
 *Shuji Asai, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.S218
- 1-Po-118 Examination of the therapeutic effects of TNF inhibitors, IL-17 inhibitors, and IL-23 inhibitors
 on patients with psoriatic arthritis using ultrasound
 *Shohei Anno, et al.*, Dept. of Orthop. Surg., Yodogawa Christian Hosp.S219
- 1-Po-119 Predictors of early achievement of low disease activity at 12 weeks post-ozoralizumab initiation:
 TBCR real-world evidence
 *Yuki Saito, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.S219
- 1-Po-120 Predictors of sustained remission in patients with rheumatoid arthritis treated with
 JAK inhibitors
 *Shuji Asai, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.S220

15 : 00 ~ 15 : 40

Poster presentation 18 THA 1

Moderator Y. Miura

- 1-Po-121 Intraoperative six-axis loads during DAA-THA using a traction table: Quantitative patterns
 by maneuver *Eiji Iwasaki, et al.*, Dept. of Orthop., Juntendo Univ.S221
- 1-Po-122 Examination of lower limb extension, adduction, and external rotation angles during hip
 arthroplasty with DAA using Condor RotexTable®
 *Takaaki Kuroda, et al.*, Dept. of Orthop. Surg., Izumi City General Hosp.S221
- 1-Po-123 Intraoperative fluoroscopic confirmation of the knee improves the accuracy of stem anteversion
 in DAA-THA with leg positioner
 *Michiaki Miura, et al.*, Dept. of Orthop. Surg., Japanese Narita Red Cross Hosp.S222
- 1-Po-124 Short-term outcome of primary total hip arthroplasty with DAA using Condor RotexTable®
 *Takaaki Kuroda, et al.*, Dept. of Orthop. Surg., Izumi City General Hosp.S222
- 1-Po-125 Evaluation of radiation exposure safety in DAA-THA using a C-arm
 *Rui Hirasawa, et al.*, Dept. of Orthop. Surg., Chiba Univ. Hosp.S223
- 1-Po-126 Mid-term outcomes of total hip arthroplasty using the dual mobility cup via the direct
 anterior approach *Yuto Kawamura*, Dept. of Orthop., Juntendo Univ.S223
- 1-Po-127 Fluoroscopy-guided total hip arthroplasty using safe anterior approach with fracture table:
 A comparative study with direct anterior approach-specific traction table
 *Eiji Iwasaki, et al.*, Dept. of Orthop., Juntendo Univ.S224
- 1-Po-128 Evaluation of intraoperative radiation exposure and surgical invasiveness in SAAF for THA:
 A comparison with ORIF and DAA
 *Itsuki Nagahata, et al.*, Dept. of Orthop. Surg., Yuri Kumiai General Hosp.S224

15 : 50 ~ 16 : 25	Poster presentation 19 Osteoarthritis of the hip	Moderator H. Fujii
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- 1-Po-129 The prevalence of acetabular dysplasia in patients with idiopathic scoliosis
 *Takumi Takahashi, et al.*, Div. of Orthop. Surg.,
 Dept. of Medicine of Sensory and Motor Organs, Faculty of Medicine, Univ. of Miyazaki...S225
- 1-Po-130 Prevalence study of Cam and Pincer deformity in adolescents: A study of 524 hips
 *Yuichi Kuroda, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S225
- 1-Po-131 Changes in bone mineral density at the femoral head-neck junction following cam resection for femoroacetabular impingement
 *Seigo Oshima, et al.*, Dept. of Orthop. Surg., Matsuyama Red Cross Hosp....S226
- 1-Po-132 Clinical characteristics and preoperative risk factors in revision cases after hip arthroscopy
 *Yusuke Sanji, et al.*, Dept. of Orthop. Surg., Kanazawa Medical Univ....S226
- 1-Po-133 The relationship between hip osteoarthritis progression and proximal femoral bone mineral density *Kazuteru Shiraiishi, et al.*, Dept. of Orthop. Surg., Nagasaki Univ. Hosp....S227
- 1-Po-134 Study of the incidence and pathology of medial osteoarthritis of the hip
 *Takuma Miyahara, et al.*, Dept. of Orthop. Surg., Notogawa Hosp....S227
- 1-Po-135 Impact of central sensitization on sleep disturbance through nocturnal pain in patients with hip osteoarthritis *Yoji Toyomura, et al.*, Dept. of Orthop. Surg., Kitasato Univ....S228

16 : 40 ~ 17 : 15	Poster presentation 20 ONFH/miscellaneous	Moderator K. Watarai
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- 1-Po-136 Three-dimensional evaluation of the collapse direction of the femoral head in osteonecrosis of the femoral head *Takamune Asamoto, et al.*, Dept. of Orthop./Rheumatology,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ....S229
- 1-Po-137 A prospective multicenter study to collect and investigate the cases of pre-collapse osteonecrosis of the femoral head *Kosei Sakamoto, et al.*, Dept. of Orthop. Surg.,
 Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ....S229
- 1-Po-138 Usefulness of 3D MRI metrics in predicting three-year femoral head collapse in ONFH
 *Hiroki Kawamata, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine...S230
- 1-Po-139 Work status and associated factors after total hip arthroplasty in patients with osteonecrosis of the femoral head
 *Keiichi Kato, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine...S230
- 1-Po-140 Trends in the treatment of osteonecrosis of the femoral head based on diagnosis procedure combination data
 *Hidetatsu Tanaka, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine...S231
- 1-Po-141 Temporal trends in acute care costs of hip fracture treatment from 2011 to 2021 in Japan
 *Masaki Hatano, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S231
- 1-Po-142 Hip joint involvement in diffuse idiopathic skeletal hyperostosis: Relationship between the extent of ligament ossification and joint degeneration
 *Ryosuke Nishimura, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine ...S232

17 : 30 ~ 18 : 10	Poster presentation 21 THA 2	Moderator K. Nihei
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- 1-Po-143 Comparison of 20-year results of total hip arthroplasty with highly cross-linked polyethylene in patients under and over 50 years *Yohei Naito, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S233
- 1-Po-144 Long-term durability of THA cemented highly cross-linked polyethylene (HXLPE) sockets
 *Seneki Kobayashi, et al.*, Dept. of Orthop. Surg., Suwa Red Cross Hosp....S233
- 1-Po-145 5-year postoperative results of total hip arthroplasty with G7 dual mobility cup
 *Ryoichi Sugibayashi, et al.*, Dept. of Orthop. Surg., Osaka Saiseikai Nakatsu Hosp....S234

- 1-Po-146 Core hip stem reduces stress shielding compared to BiCONTACT E stem and excels in the reproducibility of anatomical anterior offset
*Hiroataka Kawakami, et al.*, Dept. of Orthop. Surg., Nanpuh Hosp.···S234
- 1-Po-147 Does the Full HA-coated stem with a collar truly distribute stress?: A finite element analysis study
*Hiroaki Kijima, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S235
- 1-Po-148 Mid-term clinical and radiographic outcomes of a new Japanese short femoral stem, MIRFY: A comparative study with SL-MIA*Tomotaka Morikawa, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.···S235
- 1-Po-149 Examination of temporal wear and wear-promoting factors of Arcom liners
*Yasutaka Watanabe, et al.*, Orthop. Surg., Sensory and Motor System Medicine, Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo···S236
- 1-Po-150 Mid-term outcomes of third-generation ceramic-on-ceramic total hip arthroplasty
*Akihiko Maeda, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. Northern Yokohama Hosp.···S236

1st Day May 21 e-Poster Booth 1

9 : 15 ~ 9 : 50 e-Poster presentation 1

Moderator **H. Yasutake**

Perioperative complication: Miscellaneous

- 1-DP-1 Bone cement leakage requiring open-heart surgery after fenestrated pedicle screw fixation: Case report and review of preventive measures
*Kazuya Oshima, et al.*, Spine and Spinal Cord Center, Osaka Keisatsu Hosp.···S237
- 1-DP-2 Comparative study of radiation exposure time in MIS-TLIF and LIF
*Katsuhito Yoshioka, et al.*, Dept. of Orthop. Surg., Kanazawa Medical Center···S237
- 1-DP-3 The influence of ABO blood group on the development of deep vein thrombosis after total knee arthroplasty
*Masato Sonobe, et al.*, Dept. of Orthop. Surg., Toho Univ. Sakura Medical Center···S238
- 1-DP-4 Internal fixation versus total hip arthroplasty for displaced femoral neck fractures in patients aged 60-80: Patient-reported outcomes and complications
*Ryo Mitsutake, et al.*, Dept. of Orthop. Surg., Asahikawa Medical Univ.···S238
- 1-DP-5 Effectiveness of pelvic floor muscle exercises for urinary incontinence in patients with osteoarthritis of the hip*Sayaka Fukutani, et al.*, Rehabilitation Center, Shimane Univ. Hosp.···S239
- 1-DP-6 Construction of an intraoperative blood loss prediction model in pelvic ring fracture based solely on preoperative factors
*Kentaro Sato, et al.*, Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine···S239
- 1-DP-7 Analysis for clinical outcomes in patients with CRPS-related hand lesions after shoulder surgery
*Mamoru Yoshida, et al.*, Nishisaitama-Chuo National Hosp.···S240

10 : 05 ~ 10 : 40 e-Poster presentation 2

Moderator **H. Ikezawa**

Perioperative complication: Joint replacement

- 1-DP-8 Efficacy of oxidized regenerated cellulose powder in managing postoperative bleeding following total hip arthroplasty*Akihito Oya, et al.*, Dept. of Orthop. Surg., Keio Univ.···S241
- 1-DP-9 Comparison of postoperative blood loss following THA using surgical powder
*Hidetaka Mochizuki, et al.*, Dept. of Orthop. Surg., Teikyo Univ. Hosp., Mizonokuchi···S241
- 1-DP-10 New applications of D-dimer in the diagnosis of deep vein thrombosis after total knee arthroplasty*Tadashi Kikuchi, et al.*, Dept. of Orthop. Surg., Bange Kosei General Hosp.···S242

- 1-DP-11 Clinical significance of perioperative D-dimer change in risk stratification of deep vein thrombosis after joint arthroplasty
*Ryo Nakashima, et al.*, Dept. of Orthop. Surg., Nagoya Univ. Hosp.··S242
- 1-DP-12 Effect of anticoagulants on DVT prevention after total hip arthroplasty
*Ima Kosukegawa, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.··S243
- 1-DP-13 Post-THA thigh swelling: Clinical significance and the preventive efficacy of a selective-compression support garment
*Takuro Ueno, et al.*, Dept. of Orthop. Surg., Toyama Prefectural Central Hosp./
 Dept. of Orthop. Surg., Tonami General Hosp.··S243
- 1-DP-14 Comparison of subcutaneous suture materials used for wound closure in total hip arthroplasty and the incidence of skin complications
*Hideaki Kobayashi, et al.*, Dept. of Orthop. Surg., Saitama Red Cross Hosp.··S244

10 : 55 ~ 11 : 30	e-Poster presentation 3 Osteoporosis: Spine, pelvis	Moderator T. Aoki
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- 1-DP-15 Impact of osteoporosis on spinopelvic sagittal alignment changes after total hip arthroplasty in elderly women with osteoarthritis ···*Keiji Kamo, et al.*, Dept. of Orthop. Surg., Akita Rosai Hosp.··S245
- 1-DP-16 Sequential bisphosphonate infusion after 6-month romosozumab in osteoporosis patients with vertebral fractures*Yasuhiro Yamamoto, et al.*, Hachiya Orthop. Hosp.··S245
- 1-DP-17 Evaluation of osteoporosis screening using lumbar Hounsfield units in abdominal plain CT
*Shin Inazawa, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. Medical Center··S246
- 1-DP-18 The number of prevalent vertebral fractures in aging is more correlated to proximal femoral fractures than vertebral fractures from falling
*Katsuhiko Fujioka*, Dept. of Rehabilitation Medicine, Ogaki Tokushukai Hosp.··S246
- 1-DP-19 Evaluation of a simplified phantomless calibration method for vertebral Hounsfield unit measurements on CT in patients with rheumatoid arthritis
*Hiroki Nishimura, et al.*, Dept. of Orthop. Surg., Kyoto Univ. Hosp.··S247
- 1-DP-20 Evaluation of DXA using young adult mean of lumbar spine and femur
*Kenichi Matsuki, et al.*, Dept. of Rehabilitation, Sonoda Second Hosp.··S247
- 1-DP-21 Treatment outcomes of trans sacral screw fixation for H-shaped fragility fractures of the pelvis
*Tetsuto Yamaura, et al.*, Dept. of Orthop. Surg., Hyogo Medical Univ.··S248

15 : 00 ~ 15 : 35	e-Poster presentation 4	Moderator Y. Hirano
Osteoporosis: Bone mineral density, bone analysis		

- 1-DP-22 Pathophysiological study of secondary osteoporosis associated with primary hyperparathyroidism: Analysis of bone microarchitecture using HR-pQCT
*Kounosuke Watanabe, et al.*, Dept. of Orthop. Surg.,
 Nagasaki Univ. Graduate School of Biomedical Sciences··S249
- 1-DP-23 Assessment of bone microarchitecture using second-generation high-resolution peripheral quantitative computed tomography (HR-pQCT) in Type 1 diabetes
*Takeshi Iida, et al.*, Dept. of Orthop. Surg., Nagasaki Univ. Hosp.··S249
- 1-DP-24 Characteristics of age-related changes in proximal femoral bone mineral density: A regional analysis using DXA*Keita Yamaguchi, et al.*, Dept. of Orthop. Surg., Nagasaki Univ. Hosp.··S250
- 1-DP-25 Should the lumbar or femoral neck young adult mean percentage be measured in patients with distal radius fractures?*Shunpei Hama, et al.*, Dept. of Orthop. Surg., Osaka City Juso Hosp.··S250
- 1-DP-26 Examination of the correlation between hydroxyapatite concentration using dual energy CT, HU value, and bone mineral density
*Takahito Suto, et al.*, Dept. of Orthop. Surg., Gunma Univ. Graduate School of Medicine··S251

- 1-DP-27 A regression model for predicting forearm bone mineral density from radiological indices of the proximal femur in the general population
 *Aoi Kudo, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S251
- 1-DP-28 Characteristics and determinants of trabecular bone score in patients with proximal femoral fractures *Ayaka Inokizako, et al.*, Dept. of Orthop. Surg., Hamada Medical Center...S252

15 : 50 ~ 16 : 25 e-Poster presentation 5 Osteoporosis: Drug therapy Moderator K. Nishimura

- 1-DP-29 Comparative effectiveness and cardiovascular safety of romosozumab versus teriparatide in patients with osteoporosis: A population-based cohort study
 *Soichiro Masuda, et al.*, Dept. of Pharmacoepidemiology, Kyoto Univ...S253
- 1-DP-30 Use of osteoporosis medications after discontinuation of denosumab
 *Toshiharu Okuda*, Okuda Orthop. Clinic...S253
- 1-DP-31 The post-fracture management of osteoporosis following hip fracture in severely osteoporotic patients
 *Shun Shimodan, et al.*, Dept. of Orthop. Surg., Kushiro City General Hosp...S254
- 1-DP-32 Treatment outcomes for FGF23-related hypophosphatemic osteomalacia at our hospital
 *Junya Shimizu, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ...S254
- 1-DP-33 The reality of osteoporosis in internal medicine using a large cohort: Focusing on gender in prevalence and treatment intervention rates
 *Ryuji Okuno, et al.*, Dept. of Orthop., Juntendo Univ...S255
- 1-DP-34 Investigation of the efficacy and safety of zoledronic acid following denosumab
 *Kazuaki Mineta, et al.*, Dept. of Orthop. Surg., Tokushima Kensei Hosp...S255
- 1-DP-35 Osteoporosis treatment status after discontinuation of teriparatide
 *Megumi Hanaka, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ...S256

16 : 40 ~ 17 : 15 e-Poster presentation 6 Osteoporosis: Muscle, bone quality Moderator T. Iidaka

- 1-DP-36 Characteristics of patients with severe osteoporosis and comparison with patients with non-severe osteoporosis *Yuji Yokozeki, et al.*, Dept. of Orthop. Surg., Kitasato Univ...S257
- 1-DP-37 Association between locomotive syndrome and bone mineral density in patients with osteoporosis
 *Tomoko Kanazawa, et al.*, Dept. of Orthop. Surg., Takasago Municipal Hosp...S257
- 1-DP-38 Evaluation of nutritional status, muscle mass, and bone mineral density in elderly orthopaedic patients *Toshihiko Ito, et al.*, Kugawa Hosp. for Orthop. Surg...S258
- 1-DP-39 Limitations of skeletal muscle index and the need for muscle strength and physical function assessment in women with severe osteoporosis
 *Yuichi Ono, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine...S258
- 1-DP-40 Management of osteoporosis, including bone quality deterioration, in preoperative TKA patients
 *Takahiro Tomita, et al.*, Dept. of Orthop. Surg., Naniwa Ikuno Hosp...S259
- 1-DP-41 Relationship between remaining number of teeth and spinal Hounsfield units:
 *Ryo Fujita, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ...S259
- 1-DP-42 Association between severity of hand joint pain and bone mineral density loss in perimenopausal women: Exploring a shared estrogen-deficient pathophysiology
 *Hiromi Sasaki, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical and Dental Sciences, Kagoshima Univ...S260

17 : 30 ~ 18 : 05 e-Poster presentation 7

Moderator H. Onoue

Osteoporosis: Fracture prevention

- 1-DP-43 Efforts of intervention to treatment for osteoporosis after distal radius fractures
..... *Mika Akahane, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medical Sciences, Kanazawa Univ. ...S261
- 1-DP-44 Inpatient FLS implementation improves osteoporosis management in outpatients with
vertebral fractures
..... *Kazunobu Abe, et al.*, Dept. of Orthop. Surg., Omagari Kosei Medical Center ...S261
- 1-DP-45 Fracture liaison service prevents secondary hip fractures
..... *Yosuke Iwamoto, et al.*, Dept. of Orthop. Surg., Omagari Kosei Medical Center ...S262
- 1-DP-46 Early surgery in acute hospitals for patients with hip fractures and prevention of
secondary fractures *Toru Nagatani*, Dept. of Orthop. Surg., Yonemori Hosp. ...S262
- 1-DP-47 Nutritional assessment in femoral and vertebral fractures based on an FLS database
..... *Yasuhiro Takahashi, et al.*, Dept. of Orthop. Surg., Omagari Kosei Medical Center ...S263
- 1-DP-48 Characteristics and risk factors of refracture patients under fracture liaison service
..... *Kensuke Masugi, et al.*, Dept. of Orthop. Surg., Omagari Kosei Medical Center ...S263
- 1-DP-49 Comparative efficacy of anabolic agents for the prevention of hip fractures in patients with
primary osteoporosis: A network meta-analysis
..... *Yuki Etani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka ...S264

1st Day May 21 e-Poster Booth 2

9 : 15 ~ 9 : 50

e-Poster presentation 8 Spinal and spinal cord injury

Moderator K. Ishii

- 1-DP-50 Is early surgical intervention for acute spinal cord injury effective in patients aged 65 and older?
..... *Shinji Sasao, et al.*, Dept. of Orthop. Surg., Shinshu Univ. School of Medicine ...S265
- 1-DP-51 Clinical characteristics and outcomes of thoracolumbar AO Type C injuries: Analysis of
neurological prognosis, perioperative complications, and associated injuries
..... *Yuki Asahara*, Dept. of Orthop. Surg., Japanese Red Cross Kobe Hosp. ...S265
- 1-DP-52 Clinical profile and subsequent fracture risk after vertebral fracture according to traumatic onset:
A retrospective single-center study of 613 cases
..... *Hiroataka Ogi, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine ...S266
- 1-DP-53 Study of factors contributing to poor thoracolumbar burst fracture reduction
..... *Yuhei Yahiro, et al.*, Dept. of Orthop. Surg., Kagoshima City Hosp. ...S266
- 1-DP-54 Characteristics and surgical outcomes of vertebroplasty for osteoporotic lumbar vertebral
fractures with radiculopathy: A multicenter study
..... *Takaki Shimizu, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medical Sciences, Kanazawa Univ. ...S267
- 1-DP-55 Crucial role of the thoracolumbar vertebral compression fractures to find idiopathic normal
pressure hydrocephalus in the trauma unit
..... *Mutsuhiro Maeda, et al.*, Dept. of Orthop. Surg., Yamamoto Maeda Memorial Maeda Hosp. ...S267
- 1-DP-56 Clinical features of limb fractures in patients with chronic spinal cord injury leading to surgery
..... *Yasuaki Tojo, et al.*, Dept. of Orthop. Surg., Hokkaido Spinal Cord Injury Center ...S268

10 : 05 ~ 10 : 35

e-Poster presentation 9 Upper limb trauma

Moderator H. Takamura

- 1-DP-57 Clinical study of breakage and revision after silicone MCP joint arthroplasty for rheumatoid hand
..... *Kazuhiro Otani, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine ...S269

- 1-DP-58 Association between carpal instability at the time of distal radius fracture and radial alignment
 *Yuki Sugimoto, et al.*, Dept. of Orthop., Juntendo Univ. ...S269
- 1-DP-59 Estimation of distal radius articular surface morphology using an anatomical regression model
 *Yuichi Yoshii, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ. Ibaraki Medical Center ...S270
- 1-DP-60 Verification of the timing for volar rim plate removal based on evaluation of flexor tendon injuries following ORIF
 *Tatsuji Fujiwara, et al.*, Dept. of Orthop. Surg., Osaka General Medical Center ...S270
- 1-DP-61 Injury mechanism and fracture pattern in distal radius fractures: Snow-related versus tripping falls *Kotaro Sato, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ. ...S271
- 1-DP-62 Anatomical double-bundle coracoclavicular ligament reconstruction highlighting the conoid ligament insertion *Akira Sugi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S271

10 : 55 ~ 11 : 30	e-Poster presentation 10 Hand trauma	Moderator K. Naito
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- 1-DP-63 Treatment for scaphoid nonunion in the elderly
 *Yosuke Ushio, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. Northern Yokohama Hosp. ...S272
- 1-DP-64 Impact of assistant experience on DISI correction in scaphoid nonunion surgery
 *Takuya Kameda, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S272
- 1-DP-65 Impact of interfragmentary gap on bone union after replantation of amputated fingers
 *Yutaka Otake, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S273
- 1-DP-66 Intramedullary screw fixation for metacarpal fractures
 *Tadanobu Onishi, et al.*, Dept. of Orthop. Surg., Higashiosaka Medical Center ...S273
- 1-DP-67 Clinical utility of the ICHI Fixator System for first metacarpal fractures: A comparative study with pinning *Takumi Harada, et al.*, Dept. of Orthop. Surg., Nakadori General Hosp. ...S274
- 1-DP-68 Treatment outcome of collateral ligament injury of finger PIP joint: Comparative study of tilting angle and damaged condition
 *Hidetoshi Teraura, et al.*, Dept. of Orthop. Surg., Higashisumiyoshi Morimoto Hosp. ...S274
- 1-DP-69 Factors affecting the time to bone union of bony mallet finger in conservative treatment
 *Kenjiro Kawamura, et al.*, Dept. of Orthop., Juntendo Univ. ...S275

15 : 00 ~ 15 : 35	e-Poster presentation 11	Moderator M. Yamada
Shoulder dislocation/miscellaneous		

- 1-DP-70 Volume changes of coracoid bone grafts over time after the Bristow procedure
 *Maho Takahara, et al.*, Dept. of Orthop. Surg., Fukuoka Univ. ...S276
- 1-DP-71 Analysis of scapula morphology as a key factor in unstable painful shoulder: Comparison with anterior shoulder instability and healthy controls
 *Yasutaka Yoshimura, et al.*, Dept. of Orthop., Juntendo Univ. ...S276
- 1-DP-72 Effect of guide pin insertion technique on screw angle and position in arthroscopic Bankart-Bristow
 *Kaisei Kuboya, et al.*, Arthroscopy and Sports Medicine Center Meitetsu Hosp. ...S277
- 1-DP-73 Association between sagittal spinal alignment parameters and shoulder stiffness in a general population *Takefumi Sakaguchi, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S277
- 1-DP-74 Evaluation of intra-articular blood flow in shoulder joints of patients with shoulder pain using NIRF imaging system *Taro Fukushima, et al.*, Dept. of Orthop. Surg., Hokkaido Univ. Hosp. ...S278
- 1-DP-75 The BMP receptor inhibitor DMH1 attenuates the phenotype of a rat modified cuff tear arthropathy model *Tomohiro Iuchi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ. ...S278

- 1-DP-76 Relationship between renal failure and short-term postoperative outcomes of manipulation under anesthesia for shoulder stiffness
 *Hiroshi Negi, et al.*, Dept. of Orthop. Surg., Hiroshima-Nishi Medical Center...S279

15 : 50 ~ 16 : 25 e-Poster presentation 12 Rotator cuff injury 1 Moderator H. Funasaki

- 1-DP-77 Short-term outcomes of arthroscopic muscle advancement versus reverse shoulder arthroplasty for pseudoparalysis associated with massive rotator cuff tears
 *Hiroaki Moriyama, et al.*, Dept. of Orthop. Surg. and Center for Joint Surg., Kurume Univ. Medical Center...S280
- 1-DP-78 Long head of the biceps tendon lesions and labral lesions concomitant with isolated supraspinatus tears
 *Kazuki Nomoto, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S280
- 1-DP-79 The relationship between rotator cuff tears and postural stability in the elderly: The Yakumo study *Keita Shimizu, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ...S281
- 1-DP-80 Postoperative re-tear factors in infraspinatus rotation transfer surgery for massive rotator cuff tears difficult to repair with primary repair
 *Kengo Kirimura, et al.*, Dept. of Orthop. Surg., Jyuzen Memorial Hosp...S281
- 1-DP-81 Preoperative prediction score for rotator cuff re-tear after arthroscopic rotator cuff repair at our institution *Masahiro Izumi, et al.*, Dept. of Orthop. Surg., Saga Univ...S282
- 1-DP-82 Early postoperative stiffness after arthroscopic rotator cuff repair correlates with improved tendon healing *Ryosuke Takahashi, et al.*, Dept. of Orthop. Surg., Ichinomiya Nishi Hosp...S282
- 1-DP-83 Comparison of humeral retroversion angle between arthroscopic rotator cuff repair (ARCR) and reverse shoulder arthroplasty (RSA)
 *Kenta Shibuya, et al.*, Dept. of Orthop. Surg., Juntendo Univ. Shizuoka Hosp...S283

16 : 40 ~ 17 : 15 e-Poster presentation 13 Shoulder arthroplasty Moderator T. Manaka

- 1-DP-84 Accuracy of baseplate placement in reverse shoulder arthroplasty: A comparison between navigation and patient-specific instrumentation *Yohei Harada, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ...S284
- 1-DP-85 A study on revision reverse total shoulder arthroplasty at our institution
 *Fumihide Terakawa, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ...S284
- 1-DP-86 Improvement in glenoid implant placement accuracy in RSA using augmented reality (AR) goggles, NextAR: A comparison with conventional methods
 *Yohei Shimada, et al.*, Dept. of Orthop. Surg., St. Marianna Univ. Hosp...S285
- 1-DP-87 Effect of preoperative humeral posterior torsion on the clinical outcomes before and after reverse shoulder arthroplasty *Shuhei Matsumura, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ...S285
- 1-DP-88 Determinants of external rotation in reverse shoulder arthroplasty: Implant design rather than LSA/DSA *Shuichi Moriya, et al.*, Dept. of Orthop. Surg., Juntendo Univ. Shizuoka Hosp...S286
- 1-DP-89 Postoperative dislocation after reverse shoulder arthroplasty: A retrospective study of 119 cases using the Medacta Shoulder System
 *Koichi Ichikawa, et al.*, Dept. of Orthop. Surg., Sano Memorial Hosp...S286
- 1-DP-90 Scapulohumeral rhythm correlates with humeral distalization change after reverse total shoulder arthroplasty *Itaru Kawashima, et al.*, Dept. of Orthop. Surg., Yachiyo Hosp...S287

- 1-DP-91 Validity of the Hamada classification for cuff tear arthropathy: Insights from humeral head pathology *Shingo Maesako, et al.*, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ. ...S288
- 1-DP-92 Comparison of outcomes of surface holding repair using different medialization techniques for large and massive rotator cuff tear *Kentaro Ito, et al.*, Dept. of Orthop. Surg., Saitama Medical Univ. Hosp. ...S288
- 1-DP-93 The impact of subacromial bursa reimplantation on arthroscopic rotator cuff repair for complete rotator cuff tears: A randomized controlled trial *Daichi Morikawa, et al.*, Dept. of Orthop., Juntendo Univ. ...S289
- 1-DP-94 Superior capsule reconstruction for reinforcement of arthroscopic rotator cuff repair: Effects on stump classification type 3 and delamination *Kunimoto Fukunishi, et al.*, Dept. of Orthop. Surg., Rakusai Shimizu Hosp. ...S289
- 1-DP-95 Short-term MRI structural outcomes after rotator cuff repair with a bovine collagen implant (BCI): A comparative study versus standard repair *Ryosuke Sagami*, Dept. of Orthop. Surg., Ichinomiya Nishi Hosp. ...S290
- 1-DP-96 The combination of radial-slice magnetic resonance images and biceps-radial-slice magnetic resonance images is reliable for diagnosing the subscapularis tendon tears *Minoru Takeshima, et al.*, Dept. of Orthop. Surg., Kyoto Tanebe Central Hosp. ...S290
- 1-DP-97 Two-Year longitudinal SWE analysis of muscle stiffness after SCR with LHBT for large rotator cuff tears *Hironori Tsurukami, et al.*, Dept. of Orthop. Surg., Juntendo Univ. Urayasu Hosp. ...S291

1st Day May 21 e-Poster Booth 3
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Alignment of the lower leg/miscellaneous

- 1-DP-98 Clinical utility of seated flex seated pelvic radiograph in patients undergoing total hip arthroplasty *Hiroki Furuhashi, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine ...S292
- 1-DP-99 Does transposition osteotomy of the acetabulum affect functional pelvic tilt in patients with hip dysplasia? *Kenji Kitamura, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S292
- 1-DP-100 Factors associated with changes in posterior pelvic tilt following anesthesia induction *Atsushi Taninaka, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S293
- 1-DP-101 Hip flexion angle threshold for difficulty in putting on socks: A multicenter study *Satoshi Yamate, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S293
- 1-DP-102 Distribution of coronal plane alignment of the knee classification in bilateral adult developmental dysplasia of the hip *Ryosuke Koizumi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Science, Univ. of Yamanashi ...S294
- 1-DP-103 Impact of knee alignment on non-OA hip degeneration: Proposal of the combined CE angle *Toshiyuki Kawai*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. ...S294
- 1-DP-104 Analysis of factors influencing lower extremity rotational alignment following total hip arthroplasty *Yusuke Maezumi, et al.*, Dept. of Orthop. Surg., Shinshu Univ. ...S295

- 1-DP-105 Comparison of hip abductor muscle composition and its age-related alterations between operation-scheduled and contralateral sides in bilateral hip osteoarthritis
 *Tadashi Yasuda, et al.*, Dept. of Orthop., Surg., Kobe City Medical Center General Hosp. ...S295

10 : 05 ~ 10 : 45	e-Poster presentation 16 THA 1	Moderator S. Hayashi
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- 1-DP-106 Cancellisation around curved triple-taper polished stems is more common in patients with osteoporosis *Fumi Hirose, et al.*, Dept. of Orthop. Surg., Univ. of Tsukuba Hosp. ...S296
- 1-DP-107 Influence of different plannings and fixation modes on postoperative bone reaction of the curved short stem
 *Yutaro Munakata, et al.*, Dept. of Orthop. Surg., Sonodakai Joint Replace Center Hosp. ...S296
- 1-DP-108 The effect of stem design differences on changes in bone mineral density around the stem: A 10-year DEXA follow-up study *Masatake Kanazawa, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine ...S297
- 1-DP-109 A randomized prospective study on peri-stem BMD in two full HA stems: Does the difference in hydroxyapatite thickness affect outcomes?
 *Masahiko Mihara, et al.*, Shonan Kamakura Joint Reconstruction Center ...S297
- 1-DP-110 Changes of bone mineral density around the cemented exeter stem up to postoperative 15 years
 *Daigo Morita, et al.*, Dept. of Orthop. Surg., Hamamatsu Medical Center ...S298
- 1-DP-111 Effect of acetabular cup design on bone response in total hip arthroplasty: 3D porous vs. HA-coated
 *Taisuke Yamamoto, et al.*, Dept. of Orthop. Surg., Kanazawa Univ. Hosp. ...S298
- 1-DP-112 Temporal imaging evaluation of the periacetabular region around highly porous cups after total hip arthroplasty using T-smart digital tomosynthesis
 *Tetsuya Takeuchi*, Dept. of Orthop. Surg., The 3rd Hosp. of the Jikei Univ. School of Medicine ...S299
- 1-DP-113 Early detection of acetabular component fixation using tomosynthesis and its association with preoperative bone mineral density in total hip arthroplasty
 *Ryuichi Sato, et al.*, Dept. of Orthop. Surg., Kanagawa Rehabilitation Hosp. ...S299

10 : 55 ~ 11 : 35	e-Poster presentation 17 THA 2	Moderator N. Taniguchi
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- 1-DP-114 Changes in activity and sports participation after total hip arthroplasty: A comparison between the 2000s and 2010s *Wataru Uehara, et al.*, Dept. of Orthop. Surg., Kyushu Univ. Hosp. ...S300
- 1-DP-115 Characteristics of patients with perceived leg length discrepancy despite radiographic equality after total hip arthroplasty *Yuta Sakamaki, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S300
- 1-DP-116 Patient-reported outcomes and three-dimensional kinematic analysis of Seiza sitting motion after total hip arthroplasty *Yuki Nakao, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S301
- 1-DP-117 Association between stem-related factors and gait parameters after total hip arthroplasty
 *Hiroyuki Morita, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S301
- 1-DP-118 Factors associated with persistent gait abnormality after total hip arthroplasty
 *Junpei Dan, et al.*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ. ...S302
- 1-DP-119 Urinary incontinence symptoms and related factors at 12 months after total hip arthroplasty in female patients with hip osteoarthritis
 *Masaru Kadowaki, et al.*, Dept. of Orthop., Shimane Univ. ...S302
- 1-DP-120 Radiographic and systemic predictors of persistent low back pain following total hip arthroplasty: Roles of relative pelvic version and osteosarcopenia
 *Yoshinori Okamoto, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ. ...S303

1-DP-121 A study on the characteristics of iliopsoas muscle disorder after total hip arthroplasty
 *Takeshi Seki, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ. ...S303

15 : 00 ~ 15 : 35	e-Poster presentation 18 Hand & elbow joint	Moderator M. Amako
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1-DP-122 Mid-term results of the unlinked total elbow prosthesis K-ELBOW Type 6: Analysis of 74 cases
 at our institution ... *Yoshihiko Tabira, et al.*, Dept. of Orthop. Surg., Sagamihara National Hosp. ...S304

1-DP-123 Risk factors for aseptic loosening in Coonrad/Morrey total elbow arthroplasty:
 Radiographic analysis ... *Hiroki Nishikawa, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. ...S304

1-DP-124 A study on bone union in arthrodesis for thumb carpometacarpal osteoarthritis: Comparison of
 fixation methods *Akinobu Tsuchihashi, et al.*, Div. of Human Enhancement & Hand Surg.,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ. ...S305

1-DP-125 Comprehensive assessment of patients with symptomatic hand osteoarthritis
 *Takashi Kuroiwa, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. ...S305

1-DP-126 Correlation between dorsal tilt of the distal radius and midcarpal alignment in distal radius
 fracture or malunion *Masaomi Saeki, et al.*, Div. of Human Enhancement & Hand Surg.,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ. ...S306

1-DP-127 A study on the predictive factors of long flexor tendon ruptures of the thumb after surgery for
 distal radius fractures *Hiroko Shiraiishi, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S306

1-DP-128 Anatomical evaluation of the first dorsal compartment using the FRACTURE sequence
 *Toru Ueta, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S307

15 : 50 ~ 16 : 25	e-Poster presentation 19 Carpal tunnel syndrome	Moderator K. Fujita
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1-DP-129 Our efforts in screening for cardiac amyloidosis among patients with carpal tunnel syndrome
 *Shohei Higuchi, et al.*, Dept. of Orthop. Surg., Marunouchi Hosp. ...S308

1-DP-130 Screening for diabetes in patients with carpal tunnel syndrome
 *Akihiro Hirakawa, et al.*, Dept. of Orthop. Surg., Div. of Disease Control,
 Research Field of Medical Sciences, Graduate School of Medicine, Gifu Univ. ...S308

1-DP-131 Causal structure of preoperative factors and postoperative satisfaction in carpal tunnel
 syndrome: Exploratory analysis of gender differences and mediation
 ... *Ryo Nakamichi*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction,
 Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S309

1-DP-132 Diagnostic utility of reduction rate of abductor pollicis brevis muscle area by ultrasonography
 for carpal tunnel syndrome
 *Keitaro Fujino, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ. ...S309

1-DP-133 Correlation between median nerve volume, carpal tunnel volume, and severity of carpal
 tunnel syndrome ... *Kazuki Hayakawa, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. Hosp. ...S310

1-DP-134 Retrospective study for factors associated with the CTSI-JSSH symptom score in patients with
 carpal tunnel syndrome *Yoshiaki Tomizuka, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S310

1-DP-135 Immediate effects of ultrasound-guided hydrorelease combined with nerve gliding exercise for
 carpal tunnel syndrome
 *Hiroaki Tsukamoto, et al.*, Dept. of Orthop. Surg., Noshiro Kousei Medical Center ...S311

16 : 40 ~ 17 : 15	e-Poster presentation 20 Hand & elbow nerve	Moderator S. Koh
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1-DP-136 The significance of ulnar nerve dislocation on the pathophysiology of cubital tunnel syndrome:
 Clinical and electrophysiological evaluation
 *Takahiro Hashimoto, et al.*, Dept. of Orthop. Surg., Ube Central Hosp. ...S312

- 1-DP-137 Prognostic factors for short-term outcomes in cubital tunnel syndrome based on Akahori's grading and functional improvements
 *Konosuke Yamaguchi, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S312
- 1-DP-138 Pre- and post-operative clinical findings of cubital tunnel syndrome and amplitude in nerve conduction studies *Toshiki Zeniya, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S313
- 1-DP-139 Short-term outcomes of endoscopic ulnar nerve anterior transposition for cubital tunnel syndrome: A multi-parameter comparative study with open method
 *Konosuke Yamaguchi, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S313
- 1-DP-140 Learning of scopic surgery in cubital tunnel syndrome
 *Yukiho Abe, et al.*, Dept. of Orthop. Surg., Shinshu Univ. ...S314
- 1-DP-141 Canceled
- 1-DP-142 Utility of video-based photoplethysmography for assessing blood flow after replantation and free flap surgery
 *Chiharu Nagashima, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S315

17 : 30 ~ 18 : 05 e-Poster presentation 21	Moderator M. Tatebe
Hand & elbow: Tendon/ligament	

- 1-DP-143 Effectiveness of free fat flap interposition in tenolysis for extensor tendon adhesions of the fingers and hand dorsum *Tsuyoshi Shirahata, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine ...S316
- 1-DP-144 Surgical outcomes for Dupuytren's contracture using the ulnar parametacarpal flap
 *Yo Ogiwara, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. ...S316
- 1-DP-145 Examining the effects on postoperative patient satisfaction with snapping finger using causal inference *Tomoki Furutani, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S317
- 1-DP-146 Intraoperative active range of motion change by tensioning in the WALANT end-to-side transfer for zone 7 extensor tendon rupture
 *Mineyuki Zukawa, et al.*, Dept. of Orthop. Surg., Faculty of Medicine, Univ. of Toyama ...S317
- 1-DP-147 Wide awake out-patient surgery under local anesthesia for lateral epicondylitis of the humerus from the viewpoint of cost-effectiveness *Takuya Uemura, et al.*, Dept. of Orthop. Surg., Osaka General Hosp. of West Japan Railway Company ...S318
- 1-DP-148 Two-year clinical outcomes of debridement and advance repair by suture bridging for refractory lateral humeral epicondylitis
 *Hirokazu Arakawa, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. Hosp. ...S318
- 1-DP-149 The result of surgical treatment of medial epicondylitis
 *Yo Kitamura, et al.*, Dept. of Orthop. Surg., Shinshu Univ. ...S319

1st Day May 21 e-Poster Booth 4
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9 : 15 ~ 9 : 50 e-Poster presentation 22 TKA 1	Moderator Y. Akasaki
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- 1-DP-150 Investigation of tibial implant placement accuracy in total knee arthroplasty using preoperative 3D templating *Takehiko Moritani, et al.*, Dept. of Orthop. Surg., Fukuyama City Hosp. ...S320
- 1-DP-151 Evaluation of augmented reality navigation method on total knee arthroplasty
 *Michiru Moriya, et al.*, Matsudo Orthop. Hosp. ...S320
- 1-DP-152 Canceled

- 1-DP-153 Relationship between postoperative soft tissue balance and patient reported outcome measures in robotic-assisted bi-cruciate stabilized total knee arthroplasty
 *Yutaka Nakamura, et al.*, Dept. of Advanced Joint Reconstructive Surg., Gifu Univ. ...S321
- 1-DP-154 Factors influencing patient-reported outcome measures two years after bicruciate-stabilized total knee arthroplasty *Shine Tone, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S322
- 1-DP-155 Association between insert conformity and Forgotten Joint Score-12 after cruciate retaining total knee arthroplasty with a medial pivot design
 *Yoshinori Okamoto, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ. ...S322
- 1-DP-156 Postoperative mid-stance instability during gait does not occur despite intraoperative lateral laxity in medial pivot TKA with mechanical alignment
 *Tatsuya Soeno, et al.*, Dept. of Orthop. Surg., Niigata Medical Center ...S323

10 : 05 ~ 10 : 40	e-Poster presentation 23 TKA 2	Moderator Y. Nakagawa
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- 1-DP-157 Relationship between the sagittal plane angle of the femoral implant in total knee arthroplasty and patellofemoral joint changes
 *Shunsuke Utsumi, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Hosp. ...S324
- 1-DP-158 Three-dimensional patellar kinematics after total knee arthroplasty: Analysis using image-matching techniques *Toshiki Konishi, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S324
- 1-DP-159 Relationship between gait analysis and the postoperative patient-reported outcome measures in knee arthroplasty
 *Sanshiro Yasuma, et al.*, Dept. of Orthop. Surg., Nagoya City Univ. East Medical Center ...S325
- 1-DP-160 Mechanical alignment TKA tends to cause medio-lateral imbalance in patients with constitutional varus knees
 *Nobuyuki Miyazaki, et al.*, Dept. of Orthop. Surg., Kotonoura Rehabilitation Center ...S325
- 1-DP-161 Impact of soft-tissue management technique on functional alignment in total knee arthroplasty
 *Hiroshi Watanabe, et al.*, Dept. of Orthop. Surg., Nippon Medical School Musashikosugi Hosp. ...S326
- 1-DP-162 Comparative study of MA TKA for joint line obliquity neutral and apex distal in the CPAK classification *Takaki Nagase, et al.*, Dept. of Orthop. Surg., Shinjo Hosp. ...S326
- 1-DP-163 Navigated total knee arthroplasty prevents recurrence of valgus alignment in valgus knee
 *Kaneaki Tawada, et al.*, Dept. of Orthop. Surg., Komaki City Hosp. ...S327

10 : 55 ~ 11 : 30	e-Poster presentation 24 TKA 3	Moderator H. Nakamura
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- 1-DP-164 Long-term outcomes of total knee arthroplasty without patellar resurfacing for rheumatoid arthritis: A retrospective study *Sho Nojiri, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. ...S328
- 1-DP-165 Comparison of postoperative activity and satisfaction between UKA and TKA using the Knee Society score *Takaaki Imada, et al.*, Dept. of Orthop. Surg., Enshu Hosp. ...S328
- 1-DP-166 Factors influencing postoperative outcomes after total knee arthroscopy based on patient-reported outcome measures
 *Katsumasa Tei, et al.*, Dept. of Orthop. Surg., Chibune General Hosp. ...S329
- 1-DP-167 Prevalence and risk factors of postsurgical pain after total knee arthroplasty: A five-year prospective study
 *Hiroyuki Wada, et al.*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ. ...S329
- 1-DP-168 Factors contributing to dissatisfaction following total knee arthroplasty based on questionnaire survey
 *Suguru Nakamura, et al.*, Dept. of Orthop. Surg., Sano Memorial Hosp. ...S330

- 1-DP-169 Patient-initiated discharge decisions and postoperative length of stay in primary total knee arthroplasty *Yoshinori Ishii, et al.*, Ishii Orthop. & Rehabilitation Clinic...S330
- 1-DP-170 Actual status of inpatient costs for total knee arthroplasty in clinics with beds: An analysis under the fee-for-service system *Yoshinori Ishii, et al.*, Ishii Orthop. & Rehabilitation Clinic...S331

15 : 00 ~ 15 : 35	e-Poster presentation 25 TKA 4	Moderator K. Wada
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- 1-DP-171 Surgical procedure selection and implant survivorship of knee arthroplasty in osteonecrosis and osteoarthritis: A 4,000-case database analysis *Yu Shinyashiki, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine...S332
- 1-DP-172 Proximal femoral bone mineral density and patient-reported outcomes after total knee arthroplasty: Analysis using the AI osteoporosis diagnosis assistance system *Ryota Yamagami, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S332
- 1-DP-173 Examination of new anatomical landmarks for maintaining the joint line in revision total knee arthroplasty *Takashi Nakamura, et al.*, Dept. of Orthop. Surg., Toho Univ. (Omori)...S333
- 1-DP-174 A study of 41 cases requiring revision total knee arthroplasty in our institution *Yasumasa Momoi, et al.*, Dept. of Orthop. Surg., Juntendo Univ. Urayasu Hosp....S333
- 1-DP-175 Causes of aseptic loosening after total knee arthroplasty *Noriaki Mori, et al.*, Dept. of Orthop. Surg., Eniwa Hosp....S334
- 1-DP-176 Ten year follow-up of radiolucent lines after cementless total knee arthroplasty *Haruki Nagai, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ....S334
- 1-DP-177 Relationship between tibial cement penetration depth on postoperative CT and radiolucent line (RLL) occurrence after TKA *Tadashi Tsukeoka, et al.*, Dept. of Orthop. Surg., Chiba Rehabilitation Center...S335

15 : 50 ~ 16 : 25	e-Poster presentation 26	Moderator K. Kawaguchi
Knee: Computer-assisted surgery		

- 1-DP-178 Analysis of factors affecting the mid-flexion gap in robot-assisted unicompartmental knee arthroplasty *Yoshitake Takashima, et al.*, Dept. of Orthop. Surg., Gifu Univ. Hosp....S336
- 1-DP-179 An attempt at the gap technique using the ROSA knee system based on quantitative ligament balance assessment *Yutaka Suetomi*, Dept. of Orthop. Surg., Ogori Daiichi General Hosp....S336
- 1-DP-180 A comparative study of kinematic and mechanical alignment in robot-assisted bilateral total knee arthroplasty: A randomized controlled clinical trial *Shotaro Kawano, et al.*, Dept. of Orthop. Surg., Yamaguchi Prefectural Grand Medical Center...S337
- 1-DP-181 Correlation between preoperative limb coronary plane alignment, coronary plane osteotomy angle, and ligament balance in robot-assisted TKA *Fumiyoshi Kawashima, et al.*, Dept. of Orthop. Surg., Yokohama Asahi Central General Hosp....S337
- 1-DP-182 Comparison of portable navigation and robot-assisted surgery in total knee arthroplasty *Tsuyoshi Watanabe, et al.*, Dept. of Orthop. Surg., National Center for Geriatrics and Gerontology...S338
- 1-DP-183 Lateral laxity and clinical outcomes after total knee arthroplasty by using the MAKO *Takenori Tomite, et al.*, Dept. of Orthop. Surg., Akita Red Cross Hosp....S338
- 1-DP-184 Chronological changes and predictive factors of postoperative knee extension angle in TKA with ROSA *Ryo Ueshima, et al.*, Dept. of Orthop. Surg., Faculty of Medicine, Univ. of Toyama...S339

- 1-DP-185 Impact of coronal plane alignment on patient-reported outcomes after medial unicompartmental knee arthroplasty *Toshihiro Nonaka, et al.*, Dept. of Orthop. Surg., Saga Univ. ...S340
- 1-DP-186 Comparison of kinematic alignment UKA using femur first cut and CT-free navigation in accuracy and short-term outcome *Yasuhiro Takahashi, et al.*, Dept. of Orthop. Surg., Omagari Kosei Medical Center ...S340
- 1-DP-187 Short-term outcomes of kinematic alignment UKA are favorable with MPTA and posterior tibial slope reflecting native morphology *Yasuhiro Takahashi, et al.*, Dept. of Orthop. Surg., Omagari Kosei Medical Center ...S341
- 1-DP-188 Changes in gap balance due to joint line in UKA: A simulation study by CORI *Kotaro Yamagishi, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine ...S341
- 1-DP-189 Radiation dose reduction with low-dose frontal X-rays after unicompartmental knee arthroplasty *Kenta Katano, et al.*, Radiology Center, The Univ. of Tokyo Hosp. ...S342
- 1-DP-190 Quantification of the feeling of a feeler gauge in Oxford UKA using a digital feeler gauge *Shu Kobayashi, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S342
- 1-DP-191 The effect of femoral component placement angle relative to tibial component in UKA: A study using CT measurements *Toshihiko Goto, et al.*, Dept. of Orthop. Surg., Prefectural Akitsu Hosp. ...S343

Knee: Cartilage/conservative treatment

- 1-DP-192 Comparison of five-year postoperative outcomes between periosteal and collagen membranes after autologous cultured chondrocyte implantation (JACC): CaTCh study *Yuta Masaki, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S344
- 1-DP-193 Efficacy and safety trial of high-purity alginate gel (UPAL Gel) for knee cartilage defects: Toward clinical implementation *Tomohiro Onodera, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S344
- 1-DP-194 The effect of extracorporeal shock wave therapy on bone marrow edema in osteoarthritis of the knee *Yasuhiro Nishimori*, Hanamizuki Orthop. & Sports Clinic ...S345
- 1-DP-195 Short-term clinical outcomes of cooled radiofrequency ablation in high-risk candidates for total knee arthroplasty *Syo Deguchi, et al.*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ. ...S345
- 1-DP-196 Clinical outcomes of Coolief for knee osteoarthritis: Time-series analysis and predictors of treatment response *Naoki Takemoto, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S346
- 1-DP-197 Outcomes of night knee pain three months after peripheral nerve radiofrequency ablation for knee osteoarthritis *Takahiro Sasahara, et al.*, Dept. of Orthop., Juntendo Univ. ...S346
- 1-DP-198 One-year outcomes of cooled radiofrequency ablation for knee osteoarthritis: A study including wearable gait analysis *Hironori Kitajima, et al.*, Dept. of Orthop. Surg., Kanazawa Medical Univ. Himi Municipal Hosp. ...S347

1st Day May 21 e-Poster Booth 5

- 1-DP-199 Obesity-related pathophysiology in OPLL: Insights from body composition analysis *Kanako Ito, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S348

- 1-DP-200 Ossification of the ligamentum flavum of the thoracic spine in athletes: Clinical characteristics and the usefulness of the Mann test
*Kinshi Kato, et al.*, Dept. of Sports Medicine, Fukushima Medical Univ.··S348
- 1-DP-201 Obesity and ossification progression in lumbar OPLL: A novel disease classification as a metabolic disorder*Yoshinao Koike, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.··S349
- 1-DP-202 Effect of less invasive decompression procedure for lumbar spinal stenosis in patients with DISH extended to lumbar segment
*Kentaro Yamada, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo··S349
- 1-DP-203 Clinical results of balloon kyphoplasty for osteoporotic vertebral fracture with DISH
*Hirimitsu Takano, et al.*, Dept. of Orthop., Juntendo Univ.··S350
- 1-DP-204 Impact of postoperative pain on patient satisfaction and quality of life after surgery for thoracic OPLL and OLF
*Sadayuki Ito, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.··S350

10 : 05 ~ 10 : 40	e-Poster presentation 30 Degenerative spinal disease	Moderator H. Nojiri
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- 1-DP-205 Clinical outcomes of anterior cervical decompression with fusion for compressive myelopathy: A multi-center retrospective study of more than 1000 cases
*Takashi Hirai, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo··S351
- 1-DP-206 Can anterior cervical discectomy and fusion be expected to provide indirect decompression of posterior cord compression from the ligamentum flavum?
*Hiroaki Kimura, et al.*, Dept. of Orthop. Surg., Hyogo Prefectural Amagasaki General Medical Center··S351
- 1-DP-207 Factors influencing cervical alignment changes over 10 degrees after cervical laminoplasty
*Shinya Kato, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. Medical Center··S352
- 1-DP-208 Regression of retro-odontoid pseudotumors after surgery: Comparative study of fusion and non-fusion procedures*Shinya Nakanishi, et al.*, Dept. of Orthop. Surg., Shinshu Univ.··S352
- 1-DP-209 Multicenter data analysis of prognostic factors for surgical outcomes in proximal cervical spondylotic amyotrophy
*Yusuke Ichihara, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Hosp.··S353
- 1-DP-210 Clinical outcomes of direct pars repair for terminal-stage lumbar spondylolysis: Impact of age, adjacent disc degeneration, and spondylolisthesis*Kosuke Sugiura, et al.*, Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School··S353
- 1-DP-211 Risk factors for nonunion after percutaneous endoscopic transforaminal lumbar interbody fusion: A single-institution study
*Satoshi Takamoto, et al.*, Dept. of Orthop. Surg., Honkawagoe Hosp.··S354

10 : 55 ~ 11 : 30	e-Poster presentation 31 Spine: Pathology/anatomy	Moderator M. Fukushima
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- 1-DP-212 Brain and muscle factors associated with the severity of cervical compressive myelopathy
*Kazuhiro Fujimoto, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine··S355
- 1-DP-213 Radiographic characteristics of C3/4 and C4/5 level degenerative cervical myelopathy
*Nobuaki Tadokoro, et al.*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ.··S355
- 1-DP-214 Age-related changes in facet joint tropism and their clinical implications in lumbar degenerative spondylolisthesis*Shigetune Matsuya, et al.*, Dept. of Orthop. Surg., Tohoku Rosai Hosp.··S356

- 1-DP-215 MRI negative lumbar degenerative spondylolisthesis
*Ryo Ozaki, et al.*, Dept. of Orthop. Surg., Nihon Univ. Itabashi Hosp.···S356
- 1-DP-216 Impact of 12th rib length on lumbar nerve morphology and cranio-caudal symptom shift
*Juri Teramoto, et al.*, Dept. of Orthop., Juntendo Univ.···S357
- 1-DP-217 Surgical criteria for OLIF51 based on a new vascular assessment method: Importance of CIV
 vascular window and ellipticity
*Masayuki Ishihara, et al.*, Dept. of Orthop. Surg., Kansai Medical Univ.···S357
- 1-DP-218 Three-dimensional evaluation of facet joint tropism and comparison with conventional methods
*Koki Kato, et al.*, Dept. of Orthop. Surg., Div. of Disease Control,
 Research Field of Medical Sciences, Graduate School of Medicine, Gifu Univ.···S358

15 : 00 ~ 15 : 35	e-Poster presentation 32 Scoliosis 1	Moderator K. Yamada
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- 1-DP-219 Efficacy of suspension bending cast for early onset scoliosis
*Keisuke Masuda, et al.*, Dept. of Emergency and Critical Care Medicine,
 Nara Medical Univ. Hosp.···S359
- 1-DP-220 Two-type classification of waistline asymmetry and associated factors in patients with
 adolescent idiopathic scoliosis
*Tomohiro Banno, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine···S359
- 1-DP-221 Clinical characteristics of adolescent idiopathic scoliosis treated in adulthood: Comparison
 between thoracic major curve and lumbar major curve
*Kota Watanabe, et al.*, Dept. of Orthop. Surg., Keio Univ.···S360
- 1-DP-222 Correlation between MRI VBQ scores and pedicle screw insertion torque in AIS patients:
 Evaluating usefulness compared to DEXA and CT
*Kai Mizukami, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Science, Univ. of Yamanashi···S360
- 1-DP-223 Pre- and postoperative evaluation of the costoclavicular distance using CT in adolescent
 idiopathic scoliosis*Tomoto Suzuki, et al.*, Dept. of Orthop. Surg., Yamagata Univ.···S361
- 1-DP-224 Relationship between intraoperative blood loss and ABO blood type in adolescent idiopathic
 scoliosis: Could type O be a risk factor?
*Tomoto Suzuki, et al.*, Dept. of Orthop. Surg., Yamagata Univ.···S361
- 1-DP-225 The risk of postoperative shoulder imbalance is reduced by the acquisition of thoracic kyphosis
 in patients with Lenke type 1*Arihisa Shimura, et al.*, Dept. of Orthop., Juntendo Univ.···S362

15 : 50 ~ 16 : 25	e-Poster presentation 33 Spinal endoscopy	Moderator H. Nakamoto
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- 1-DP-226 Safe entry distance and anatomical risk assessment for upper lumbar TF-FESS
*Takayuki Kitahara, et al.*, Dept. of Orthop.,
 Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S363
- 1-DP-227 Clinical outcomes of microendoscopic extraforaminal lumbar interbody fusion (MELIF) for the
 treatment of lumbar degenerative diseases
*Motohiro Okada, et al.*, Dept. of Orthop. Surg., Sumiya Orthop. Hosp.···S363
- 1-DP-228 Evaluation of decompression by using pediatric transesophageal echo prove in bi-portal
 endoscopic spine surgery
*Katsuyuki Sasaki, et al.*, Dept. of Orthop. Surg., Kanto Rosai Hosp.···S364
- 1-DP-229 Endoscopic surgery for lumbar isthmic spondylolisthesis: The crisscross decompression
 in practice*Naoto Ono, et al.*, Dept. of Orthop. Surg., Kansai Medical Univ.···S364
- 1-DP-230 Efficacy of microendoscopic surgery for lumbar disc herniation in obese patients
*Tomoyuki Tanaka, et al.*, Dept. of Orthop. Surg., Saiseikai Kawaguchi General Hosp.···S365
- 1-DP-231 Post-surgical facet cyst after microendoscopic decompression for lumbar spinal stenosis
*Motohide Shibayama, et al.*, Dept. of Orthop. Surg., Aichi Spine Hosp.···S365

1-DP-232 Properly selected cases to learn full-endoscopic spine surgery safely
*Hiroki Yoshimatsu, et al.*, Dept. of Spine and Spinal Cord Surg., Fukuoka Kinen Hosp.···S366

16 : 40 ~ 17 : 15	e-Poster presentation 34 Scoliosis 2	Moderator Y. Takeshita
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- 1-DP-233 Reconsidering the drain placement in posterior spinal fusion for adolescent idiopathic scoliosis
*Hisakazu Shitozawa, et al.*, Dept. of Orthop. Surg.,
 Science of Functional Recovery and Reconstruction, Faculty of Medicine,
 Dentistry, and Pharmaceutical Sciences, Okayama Univ.···S367
- 1-DP-234 Mechanism of postoperative lumbar disc volume increase in patients with Lenke type 1BC
 analyzed by 3D MRI*Shoji Seki*, Dept. of Orthop. Surg., Univ. of Toyama Hosp.···S367
- 1-DP-235 A new strategy using autologous fibrin glue in scoliosis surgery
*Taichi Tsuji, et al.*, Dept. of Orthop. & Spine Surg., Toyota Kosei Hosp.···S368
- 1-DP-236 Examination of the learning curve for pedicle screw insertion using a robotic arm for
 scoliosis surgery*Takuma Fukuzawa, et al.*, Dept. of Orthop. Surg., Shinshu Univ.···S368
- 1-DP-237 Clinical course of severe scoliosis cases who has more than 100 degrees curve: Comparison
 study with moderate curve
*Takuya Yamamoto, et al.*, Dept. of Orthop. Surg., Kagoshima City Hosp.···S369
- 1-DP-238 Cost-effectiveness analysis of thoracic idiopathic scoliosis
*Hiroshi Moridaira, et al.*, Dept. of Orthop. Surg.,
 Dokkyo Medical Univ. Nikko Medical Center···S369
- 1-DP-239 Evaluation of surgical site infections in scoliosis surgery for children with severe motor and
 intellectual disabilities
*Shinya Matsubara, et al.*, Dept. of Orthop. Surg., Nagano Children's Hosp.···S370

17 : 30 ~ 18 : 05	e-Poster presentation 35 Spine: Database	Moderator C. Horii
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- 1-DP-240 Osteoporosis treatment and tests in older adults aged 75 years and older with osteoporotic
 vertebral fractures*Toshio Nakamae, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Biomedical and Health Sciences, Hiroshima Univ.···S371
- 1-DP-241 Efficacy of a two-staged surgery for adult spinal deformity: A retrospective study based on a
 multicenter database
*Jun Ouchida, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S371
- 1-DP-242 Perioperative complication risks in adult spinal instrumentation surgery: An analysis of fusion
 extent and surgeon experience using the JSIS-DB
*Hideyuki Arima, et al.*, Database Committee of the Japanese Spinal Instrumentation Society···S372
- 1-DP-243 Epidemiology and perioperative complications of single-level posterior lumbar interbody fusion:
 A study using the JSIS-DB*Kimiaki Yokosuka, et al.*, Dept. of Orthop. Surg., Kurume Univ.···S372
- 1-DP-244 Perioperative complications in pediatric spinal deformity surgery: A nationwide database study
 from the Japanese Society for Spine Instrumentation
*Yusuke Hori, et al.*, Database Committee of the Japanese Spinal Instrumentation Society···S373
- 1-DP-245 Systemic factors associated with spinal kyphosis: LOHAS
*Kazuyuki Watanabe, et al.*, Dept. of Research for Spine and Spinal Surg.,
 Fukushima Medical Univ.···S373
- 1-DP-246 Vertebroplasty safety in spinal metastases: Comparison with osteoporotic fractures using
 DPC database*Go Uesugi, et al.*, Dept. of Orthop. and Spinal Surg.,
 Graduate School of Medical and Dental Sciences, Institute of Science Tokyo···S374

1st Day May 21 e-Poster Booth 6

9 : 15 ~ 9 : 50 e-Poster presentation 36 Ankle 1 Moderator M. Hatori

- 1-DP-247 Association between radiographic parameters and lower limb biomechanics in patients with ankle osteoarthritis *Suguru Saho, et al.*, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ. ...S375
- 1-DP-248 Relationship between subtalar joint lesions and talar varus in varus osteoarthritis of the ankle *Kazuya Ikoma, et al.*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine ...S375
- 1-DP-249 Impact of different alignment techniques in total knee arthroplasty on hindfoot alignment changes *Mihoko Akiyama, et al.*, Dept. of Orthop. Surg., Akita Univ. Hosp. ...S376
- 1-DP-250 Canceled
- 1-DP-251 Biomechanical evaluation of surgical treatment in a deltoid ligament injury model of the ankle *Yuta Mori, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S377
- 1-DP-252 Evaluation of ankle instability before and after anesthesia in patients with chronic ankle instability using a capacitance-type strain sensor *Tadashi Kimura, et al.*, Dept. of Orthop. Surg., The Jikei Univ. School of Medicine ...S377
- 1-DP-253 Evaluating ankle instability using capacitance sensors: Correlation with clinical assessment *Nanami Ueda, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S378

10 : 05 ~ 10 : 40 e-Poster presentation 37 Ankle 2 Moderator K. Takeshima

- 1-DP-254 Relationship between cartilage repair and postoperative outcomes after low tibial osteotomy for ankle osteoarthritis *Dan Moriwaki, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S379
- 1-DP-255 Ankle joint debriedement and lateral ligament repair for ankle osteoarthritis with lateral ankle instability and kept ankle range of motion *Oto Yamamoto, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S379
- 1-DP-256 Impact of combined artificial talus in total ankle arthroplasty *Mitsuru Hanada, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine ...S380
- 1-DP-257 Clinical outcomes at one year after arthroscopic ankle arthrodesis in patients over 65 with ankle osteoarthritis *Rintaro Niki, et al.*, Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine, Yokohama City Seibu Hosp. ...S380
- 1-DP-258 Investigation of intraoperative radiation time and postoperative invasiveness in TM ankle *Shuichi Chida, et al.*, Dept. of Orthop. Surg., Hiraka General Hosp. ...S381
- 1-DP-259 Impact of preoperative single-leg standing ability on functional outcomes after total ankle arthroplasty *Tetsuro Yasui, et al.*, Dept. of Orthop. Surg., Teikyo Univ. Hosp., Mizonokuchi ...S381
- 1-DP-260 Association between implant alignment and gait kinematics in total ankle arthroplasty *Masaki Dogomori, et al.*, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ. ...S382

10 : 55 ~ 11 : 30 e-Poster presentation 38 Foot & ankle Moderator S.H. Chang

- 1-DP-261 Surgical outcomes of hallux valgus with concomitant bunionette *Saori Ishibashi, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S383
- 1-DP-262 Effective arthrodesis of severe hallux valgus with locking plate and nitinol staple preserving adductor hallucis insertion *Shigeki Negami, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S383

- 1-DP-263 Three-dimensional analysis of alignment changes after hallux valgus surgery
 *Yasutaka Murahashi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S384
- 1-DP-264 Clinical outcomes of plantarflexion-shortening metatarsal osteotomy for hallux rigidus and the
 influence of osteotomy amount
 *Takumi Kihara, et al.*, Dept. of Orthop. Surg., The Jikei Univ. School of Medicine ...S384
- 1-DP-265 Outcomes of surgery for Morton disease using SAFE-Q
 *Tomoko Karube, et al.*, Dept. of Orthop. Surg.,
 St. Marianna Univ. School of Medicine, Yokohama City Seibu Hosp. ...S385
- 1-DP-266 Anatomical characteristics of the peroneus tertius muscle in Japanese
 *Manato Hashimoto, et al.*, Graduate School of Health Sciences, Sapporo Medical Univ. ...S385
- 1-DP-267 Arthroscopic ankle surgery under ultrasound-guided peripheral nerve block in patients with
 haemophilic ankle arthropathy *Yasunari Ikuta, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S386

15 : 00 ~ 15 : 35 e-Poster presentation 39 Computer assisted surgery: THA Moderator N. Kaku

- 1-DP-268 Machine learning-based prediction of femoral rotation angle after total hip arthroplasty
 *Hiroyuki Ike, et al.*, Musculoskeletal Science,
 Yokohama City Univ. Graduate School of Medicine ...S387
- 1-DP-269 Evaluation of cup placement in THA using the NAVISWISS system and Ortho Panther
 *Ryuichi Isozaki, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S387
- 1-DP-270 Cup alignment change after screw fixation in mako-assisted THA: Comparison between Mako
 and CT Navigation *Ryo Hidaka, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S388
- 1-DP-271 Clinical outcomes of robotic arm-assisted total hip arthroplasty using the conjoint tendon
 preservation (CPP) approach
 *Satoru Harada, et al.*, Dept. of Orthop. Surg., Hamanomachi Hosp. ...S388
- 1-DP-272 Factors affecting early functional recovery within two months after total hip arthroplasty:
 A randomized prospective study using a smartphone application
 *Masamoto Hirano, et al.*, Shonan Kamakura Joint Reconstruction Center ...S389
- 1-DP-273 Accuracy of the novel pinless augmented reality-based portable navigation system during total
 hip arthroplasty in the supine position
 *Hiroaki Kurishima, et al.*, Dept. of Orthop. Surg., Japanese Red Cross Sendai Hosp. ...S389
- 1-DP-274 Accuracy comparison between Fluoro HIP and AR HIP handheld navigation for measuring
 cup angle *Hiroki Kobayashi, et al.*, Dept. of Orthop. Surg., National Defense Medical College ...S390

15 : 50 ~ 16 : 25 e-Poster presentation 40 Computer assisted surgery: Lower limb Moderator Y. Minoda

- 1-DP-275 Differences between predicted and measured soft tissue balance in robot-assisted total knee
 arthroplasty: Comparison of manual stress and knee balancer
 *Kei Satou, et al.*, Dept. of Orthop. Surg., Saitama Medical Center, Saitama Medical Univ. ...S391
- 1-DP-276 Evaluation of intraoperative gap in functional alignment modified gap technique for
 robot-assisted total knee arthroplasty *Hiroshi Takagi, et al.*, Dept. of Orthop. Surg.,
 Adachi Medical Center, Tokyo Women's Medical Univ. ...S391
- 1-DP-277 Effect of posterior cruciate ligament resection on flexion medial gap in robot-assisted total
 knee arthroplasty
 *Hideki Mizu-uchi, et al.*, Dept. of Orthop. Surg., Saiseikai Fukuoka General Hosp. ...S392
- 1-DP-278 Discrepancy between 3-dimensional preoperative planning and intraoperative soft tissue
 balance in total knee arthroplasty: A study using robot-assisted surgery
 *Hideki Mizu-uchi, et al.*, Dept. of Orthop. Surg., Saiseikai Fukuoka General Hosp. ...S392

- 1-DP-279 Tendency of tibial component placement and short-term outcomes in ROSA-assisted unicompartmental knee arthroplasty using the persona partial knee system
 *Daichi Ishimaru, et al.*, Dept. of Orthop. Surg., Gifu Seiryu Hosp. ...S393
- 1-DP-280 Can lateral impingement in femoroacetabular impingement be reproduced by dynamic simulation?
 *Kazunari Ogura, et al.*, Dept. of Orthop. Surg., Fujisawa Shonandai Hosp. ...S393
- 1-DP-281 The accuracy and reproducibility of the KL grade evaluation using ChatGPT in the Asian population *Takanori Iriuchishima, et al.*, Dept. of Orthop. Surg., Keijinkai Shiroyama Hosp. ...S394

16 : 40 ~ 17 : 15	e-Poster presentation 41 AI: Miscellaneous	Moderator R. Nakahara
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- 1-DP-282 Image diagnosis of schwannomas using ChatGPT
 *Toshiki Minato, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp./
 Dept. of Orthop. Surg., Higashisumiyoshi Morimoto Hosp. ...S395
- 1-DP-283 Preoperative chest radiograph-based bone density estimation for low bone mass and short-term outcomes in patients undergoing spinal decompression
 *Yudai Kumanomido, et al.*, Dept. of Orthop. Surg.,
 The Univ. of Tokyo Hosp., The Univ. of Tokyo ...S395
- 1-DP-284 Prediction of 1-year postoperative walking ability after proximal femoral fracture using ordinal logistic regression and machine learning models
 *Takahiro Mita, et al.*, Dept. of Orthop. Surg., Japanese Red Cross Asahikawa Hosp. ...S396
- 1-DP-285 The utility of the Coroban[®] AI system for predicting falls in cases osteosynthesis for femoral neck fractures *Masatoshi Tomita, et al.*, Dept. of Orthop. Surg., Iwata City Hosp. ...S396
- 1-DP-286 The utility of an AI system for predicting falls in patients undergoing femoral neck fracture surgery *Kentaro Tate, et al.*, Dept. of Orthop. Surg., Iwata City Hosp. ...S397
- 1-DP-287 Association between handgrip strength and thigh muscle volume in patients with proximal femoral fractures: An AI-based 3D CT analysis
 *Yuta Kamo, et al.*, Dept. of Orthop. Surg., Otaru General Hosp. ...S397
- 1-DP-288 AI-based prediction of hospital stay after surgery for proximal femoral fracture
 *Kenta Sugiyama, et al.*, Dept. of Orthop. Surg., Fujinomiya City Hosp. ...S398

17 : 30 ~ 18 : 05	e-Poster presentation 42 AI: Computer assisted surgery	Moderator K. Sato
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- 1-DP-289 Our institutional strategies for preventing cement leakage in cement-augmented pedicle screws: A finite element analysis of the optimal cement volume
 *Hiroki Takeda, et al.*, Dept. of Spine and Spinal Cord Surg., Fujita Health Univ. ...S399
- 1-DP-290 Specialized AI: Validation of literature search and extraction accuracy using Dify+GAS: A research workflow leveraging notebookLM, ChatGPT as supplemental LLMs
 *Go Goto, et al.*, Dept. of Orthop. Surg., Univ. of Yamanashi Hosp. ...S399
- 1-DP-291 Kinematic analysis of finger extension in rheumatoid arthritis patients with boutonniere deformity using OpenPose
 *Daisuke Nishiyama, et al.*, Dept. of Orthop. Surg., Wakayama Medical Univ. ...S400
- 1-DP-292 Correlation between lateralization and distalization using preoperative planning software and postoperative range of motion in onlay RSA
 *Atsushi Urita, et al.*, Dept. of Orthop. Surg., Dokkyo Medical Univ. ...S400
- 1-DP-293 Development of a 3D-printed thermoplastic polyurethane orthosis for Heberden's nodes
 *Hideo Takata, et al.*, Dept. of Orthop. Surg., Kouseiren Namerikawa Hosp. ...S401
- 1-DP-294 Reliability of automated measurement of medial elbow joint space width using deep learning: Comparison with manual measurement by orthopaedic surgeons
 *Shotaro Teruya, et al.*, Dept. of Orthop. Surg., Univ. of Tsukuba ...S401

- 1-DP-295 Development of a small data deep learning model MTANN for automated detection of saphoid fractures *Tomohiko Waki, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo...S402

2nd Day May 22 Room 1

8 : 00 ~ 9 : 20 Symposium 9 Laminoplasty Moderators K. Chiba, K. Takeshita

- 2-1-S9-1 Kirita-Miyazaki double-door laminoplasty
..... *Kenichiro Sakai, et al.*, Dept. of Orthop. Surg., Saiseikai Kawaguchi General Hosp...S403
- 2-1-S9-2 Open-door laminoplasty (Hirabayashi method)
..... *Narihito Nagoshi, et al.*, Dept. of Orthop. Surg., Keio Univ...S403
- 2-1-S9-3 Double-door cervical laminoplasty
..... *So Kato*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S404
- 2-1-S9-4 The clinical effectiveness of muscle-preserving selective laminectomy
..... *Ryoma Aoyama, et al.*, Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp...S404

9 : 30 ~ 10 : 50 Symposium 10 Endoscopic spine surgery: UBE Moderators T. Tomita, Y. Oshima

- 2-1-S10-1 Fundamentals of UBE as the third spinal endoscopic technique
..... *Hiroki Iwai, et al.*, Dept. of Orthop. Surg., Iwai Orthop. Hosp...S405
- 2-1-S10-2 UBE/BESS as the ultimate goal of minimally invasive lumbar decompression
..... *Hidetomi Terai*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine...S405
- 2-1-S10-3 The true evolution of endoscopic spine surgery: The structural rationality of AFESS from an architectural perspective *Takeshi Kaneko*, Inanami Spine and Joint Hosp...S406
- 2-1-S10-4 The practical technique of endoscopic lumbar interbody fusion using an expandable cage
..... *Kanji Sasaki*, Dept. of Orthop. Surg., Seirei Hamamatsu General Hosp...S406
- 2-1-S10-5 Introduction and current status of UBE in Japan: From guideline to practice
..... *Daisuke Sakai, et al.*, Dept. of Orthop. Surg., Surgical Science, Tokai Univ...S407

11 : 05 ~ 12 : 05 Invited lecture 10 (English) Moderator H. Mihara

- 2-1-IL10-1 Missed diagnoses in the cervical spine
..... *K. Daniel Riew*, Weill Cornell Medical Center- Och Spine Hosp., Dept. of Neuro. Surg., New York, NY, USA...S408
- 2-1-IL10-2 Brain involvement in spinal disorders
..... *Yasushi Oshima, et al.*, Orthop. Surg., Sensory and Motor System Medicine, Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo...S408

14 : 00 ~ 15 : 20 Symposium 11 Spinal deformity Moderators M. Yagi, S. Kato

- 2-1-S11-1 Alignment goals in adult spinal deformity surgery
..... *Yu Yamato*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S409
- 2-1-S11-2 The role of pedicle subtraction osteotomy (PSO) for adult spinal deformity
..... *Yusuke Nakao*, Dept. of Orthop. Surg., Sanraku Hosp...S409
- 2-1-S11-3 Minimally invasive alignment reconstruction in adult spinal deformity: From appropriate indications for short fusion to optimal selection of ACR/OLIF51
..... *Masayuki Ishihara*, Dept. of Orthop. Surg., Kansai Medical Univ...S410
- 2-1-S11-4 Strategies to reduce the risk of revision in adult spinal deformity surgery
..... *Kentaro Fukuda*, Dept. of Orthop. Surg., Saiseikai Yokohamashi Tobu Hosp...S410

15 : 35 ~ 16 : 35 **Instructional lecture 19**

Moderator S. Imagama

- 2-1-EL19 The history and prospects of OPLL research: The past, present, and future of unraveling the mysteries of ossification
..... *Masahiko Takahata, et al.*, Dept. of Orthop. Surg., Dokkyo Medical Univ. ...S411

16 : 50 ~ 18 : 10 **Symposium 12**

Moderators N. Hosogane, M. Yagi

Current status and challenges in introducing new medical technologies

- 2-1-S12-1 The role of the new technology assessment committee in the adoption of novel spinal technologies and devices in Japan
..... *Mitsuru Yagi, et al.*, Dept. of Orthop. Surg., International Univ. of Health and Welfare ...S412
- 2-1-S12-2 Approval review of brand new medical devices
..... *Fumika Kubota*, Pharmaceuticals and Medical Devices Agency ...S412
- 2-1-S12-3 Insurance reimbursement of new medical technologies: Current status and challenges
..... *Yuki Ishikawa*, Medical Economics Div.,
Health Insurance Bureau, Ministry of Health, Labour and Welfare ...S413
- 2-1-S12-4 Roles of society committees and working groups in the introduction of new medical technologies ... *Tokumi Kanemura, et al.*, Dept. of Orthop. Surg., Konan Kosei Hosp. ...S413
- 2-1-S12-5 An attempt to safely disseminate trans-sacral canal plasty: JSSR TSCP Working Group and Guidelines ... *Kazuo Nakanishi, et al.*, Dept. of Orthop. Surg., Kawasaki Medical School ...S414
- 2-1-S12-6 Introduction of generic lumbar interbody fusion devices: Stepwise safety evaluation and registry-based experience ... *Hiroaki Nakashima, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S414

2nd Day May 22 Room 2

8 : 00 ~ 9 : 20 **Symposium 13**

Moderators T. Mae, S. Taketomi

Why do ACL reconstructions and revisions fail?

- 2-2-S13-1 Consequences of non-anatomical ACL reconstruction: Tunnel malposition in ACL reconstruction leads to non-traumatic graft failure
..... *Shuji Taketomi, et al.*, Orthop. Surg., Sensory and Motor System Medicine, Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo ...S415
- 2-2-S13-2 Appropriate graft selection in anterior cruciate ligament (ACL) reconstruction
..... *Tomoki Otori, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka ...S415
- 2-2-S13-3 Large preoperative anterior tibial subluxation and posterior tibial slope affect ACL graft status
..... *Yoshinari Tanaka, et al.*, Dept. of Nutrition, Graduate School of Human Life and Ecology, Osaka Metropolitan Univ. ...S416
- 2-2-S13-4 Relationship between malpositioning of ACL tunnel and excessive initial tension
..... *Tomoyuki Suzuki, et al.*, Sapporo Maruyama Orthop. Hosp. ...S416
- 2-2-S13-5 Approach to meniscus injuries related to ACL injury
..... *Hideyuki Koga*, Dept. of Joint Surg. and Sports Medicine, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo ...S417
- 2-2-S13-6 Influence and management of the anterolateral complex injury: Indications and efficacy of ALL reconstruction ... *Masahiro Nozaki, et al.*, Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences ...S417

2nd Day May 22 Room 3

8 : 00 ~ 9 : 20 Symposium 16 **Moderators K. Nakajima, K. Watanabe**
Pharmacological treatment in sports orthopaedics

- 2-3-S16-1 Pharmacotherapy and anti-doping in sports orthopaedics *Etsuko Kamihigashi*, JISS Clinic...S426
- 2-3-S16-2 Medication use in athletics: Issues and insights
 *Hiroshi Kamada, et al.*, Dept. of Orthop. Surg., Univ. of Tsukuba...S426
- 2-3-S16-3 Managing pharmacological treatment in para sports: Practical experience from an orthopaedic surgeon's perspective
 *Yuki Shiota*, Dept. of Sports Medicine, Juntendo Univ. School of Sports and Health Science...S427
- 2-3-S16-4 Medical support at international multi-sports events: Efforts to improve the appropriateness of transporting medications *Kohei Nakajima*, Japan Institute of Sports Sciences...S427

9 : 30 ~ 10 : 50 Symposium 17 **Moderators A. Kanamori, K. Watanabe**
Extracorporeal shock waves in sports medicine

- 2-3-S17-1 Extracorporeal shock wave therapy for capitellar osteochondritis dissecans in baseball players
 *Tetsuya Matsuura, et al.*, Dept. of Rehabilitation Medicine, Tokushima Univ. Hosp....S428
- 2-3-S17-2 Clinical experience of extracorporeal shock wave therapy for posterior elbow disorders in baseball players *Norimasa Takahashi, et al.*, Funabashi Orthop. Hosp....S428
- 2-3-S17-3 Effectiveness of extracorporeal shock wave therapy for patellar tendinopathy
 *Kenji Takahashi*, Funabashi Orthop. Hosp....S429
- 2-3-S17-4 Extracorporeal shock wave therapy for Achilles tendinopathy
 *Koji Noguchi, et al.*, Dept. of Orthop. Surg., Kurume General Hosp....S429
- 2-3-S17-5 Extracorporeal shock wave therapy in young athletes striving beyond their limits
 *Toru Omodani*, Tokyo Advanced Orthop....S430

11 : 05 ~ 12 : 05 Free papers 31 Sports: Upper limb 1 **Moderators N. Nishinaka, N. Ochiai**

- 2-3-1 Elbow screening for junior high school baseball players: The significance of a sustainable, league-led system for prevention and early detection
 *Katsuhiko Tokutake, et al.*, Div. of Human Enhancement & Hand Surg., Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ....S431
- 2-3-2 Impact of youth baseball rule changes on elbow screening for osteochondritis dissecans of the humeral capitellum *Yasushi Takata, et al.*, Dept. of Orthop. Surg., Kanazawa Univ. Hosp....S431
- 2-3-3 Pitch count alone is not enough: Age-dependent pinch strength change and associated factors in youth baseball pitchers *Keisuke Yonezawa, et al.*, Dept. of Orthop. Surg., Teikyo Univ....S432
- 2-3-4 Impact of the COVID-19 pandemic on the prevalence of capitellar osteochondritis dissecans
 *Nobutoshi Takamatsu, et al.*, Dept. of Orthop. Surg., Tokushima Prefectural Kaifu Hosp....S432
- 2-3-5 Correlation between head of radius displacement and Iwase classification in osteochondritis dissecans of the humeral capitellum
 *Hiroki Okada, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. Fujigaoka Hosp....S433
- 2-3-6 The evaluation of elbow ulnar collateral ligament injuries using CT Hounsfield unit in professional baseball players *Masaru Munemori, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ....S433

12 : 35 ~ 13 : 45 Luncheon seminar 14 (English) **Moderator T. Nakagawa**

- 2-3-LS14 The real-world impact of CT-based robotics in TKA: From operating room to outcomes
 *Simon W. Young*, Dept. of Orthop. Surg., Univ. of Auckland, Auckland, New Zealand...S434

14 : 00 ~ 15 : 20	Symposium 18 Muscle strain	Moderators Y. Takazawa, A. Nakamae
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- 2-3-S18-1 Prevention of hamstring strain injury
.....*Naoki Akiyoshi*, Dept. of Rehabilitation, J Medical Oyumino...S435
- 2-3-S18-2 Ultrasound in muscle strain: A roadmap toward future clinical practice
.....*Jun Sasahara, et al.*, Teikyo Univ. Institute of Sports Sciences & Medicine...S435
- 2-3-S18-3 Clinical utility of MRI imaging for muscle strain: For diagnosis, treatment options, and return to play decisions
.....*Kohei Nakajima, et al.*, Japan Institute of Sports Sciences, High Performance Center, Japan Sport Council...S436
- 2-3-S18-4 Muscle strain as a battle with recurrence: New strategy of PRP therapy against fibrosis
.....*Yuki Shimizu*, THE YOKOHAMA FRONT BAYSIDE CLINIC...S436
- 2-3-S18-5 Surgical treatment for muscle strain
.....*Atsushi Fukai*, Teikyo Univ. Institute of Sports Sciences & Medicine...S437

2nd Day May 22 Room 4

8 : 00 ~ 9 : 20	Symposium 19	Moderators N. Sugano, Y. Inaba
Building and utilizing real-world data in hip joint surgery		

- 2-4-S19-1 The overview of hip joint registries in Japan and the world
.....*Nobuhiko Sugano*, Dept. of Arthroplasty Center, Kawanishi City Medical Center...S438
- 2-4-S19-2 Japan arthroplasty registry
.....*Haruhiko Akiyama*, Dept. of Orthop. Surg., Div. of Disease Control, Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ...S438
- 2-4-S19-3 An interim report on a pilot study of a hip preservation surgery registry in Japan
.....*Masaki Takao, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine ...S439
- 2-4-S19-4 Current trend of hip arthroscopy registry in Japan and international future perspective
.....*Soshi Uchida, et al.*, Dept. of Orthop. Surg., Wakamatsu Hosp. of the Univ. of Occupational and Environmental Health...S439
- 2-4-S19-5 Current epidemiological research framework and database utilization for osteonecrosis of the femoral head
.....*Wataru Ando, et al.*, Dept. of Orthop. Surg., Kansai Rosai Hosp...S440
- 2-4-S19-6 Analysis of registry data on hip arthroplasty conducted by the Japanese Investigation Committee on osteonecrosis of the femoral head
.....*Takashi Imagama, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine...S440

9 : 30 ~ 10 : 50	Symposium 20	Moderators E. Chosa, N. Takahira
Advantages and disadvantages of pelvic osteotomies		

- 2-4-S20-1 Challenges towards good long-term outcomes following rotational acetabular osteotomy
.....*Hidetoshi Hamada, et al.*, Dept. of Orthop. Medical Engineering, Graduate School of Medicine, The Univ. of Osaka...S441
- 2-4-S20-2 Pros and cons of curved periacetabular osteotomy
.....*Koji Goto, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine...S441
- 2-4-S20-3 Advantages and disadvantages of spherical periacetabular osteotomy
.....*Toshihiko Hara*, Dept. of Orthop. Surg., Iizuka Hosp...S442
- 2-4-S20-4 Modified Spitzzy shelf arthroplasty for developmental dysplasia of the hip
.....*Kenichi Oe, et al.*, Dept. of Orthop. Surg., Kansai Medical Univ...S442

11 : 05 ~ 12 : 05	Invited lecture 12 (English)	Moderator T. Sakai
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- 2-4-IL12-1 Diagnosis and therapy of the periprosthetic joint infection: The one stage exchange
 *Thorsten Gehrke*, Dept. of Orthop. Surg., Endo Klinik Hamburg, Hamburg, Germany...S443
- 2-4-IL12-2 Updates in diagnosing periprosthetic joint infection
 *Naomi Kobayashi, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. Medical Center...S443

12 : 35 ~ 13 : 45	Luncheon seminar 15 (English)	Moderator N. Sugano
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- 2-4-LS15-1 Why is the short triple taper stem dominating the market now?
 *Kotaro Nihei, et al.*, Dept. of Orthop. Surg., Saitama Co-operative Hosp....S444
- 2-4-LS15-2 Development rationale and early clinical experience with the Catalystem collared tri-tapered uncemented stem in primary total hip arthroplasty
 *George Haidukewych*, Dept. of Orthop. Surg.,
 Orlando Health Jewett Orthop. Institute, Orlando, FL, USA...S444

14 : 00 ~ 15 : 20	Symposium 21	Moderators M. Matsubara, M. Takao
Current status and future challenges of robotic surgery		

- 2-4-S21-1 Current status and future of robot-assist total hip arthroplasty: General overview
 *Arihiko Kanaji, et al.*, Dept. of Orthop. Surg., Fujita Health Univ. Bantane Hosp....S445
- 2-4-S21-2 Robotic-assisted total hip arthroplasty for challenging cases after rotational acetabular osteotomy
 *Ryuichi Sato, et al.*, Dept. of Orthop. Surg., Kanagawa Rehabilitation Hosp....S445
- 2-4-S21-3 Current status and future of robotic arm-assisted total hip arthroplasty
 *Hirofumi Oshima, et al.*, Dept. of Orthop. Surg., NTT Medical Center Tokyo...S446
- 2-4-S21-4 Accuracy of cup positioning during robotic-assisted total hip arthroplasty
 *Shinya Hayashi, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S446

2nd Day May 22 Room 5

8 : 00 ~ 9 : 20	Symposium 22	Moderators K. Kikugawa, N. Taniguchi
Shifts in RSA model selection		

- 2-5-S22-1 My selection of RSA implants *Noboru Matsumura, et al.*, Dept. of Orthop. Surg., Keio Univ....S447
- 2-5-S22-2 Evolution of implants and surgical techniques in reverse shoulder arthroplasty
 *Norimasa Takahashi, et al.*, Funabashi Orthop. Hosp....S447
- 2-5-S22-3 What is more important than selecting the right RSA system: Achieving intraoperative zero position *Tomonori Kenmoku*, Dept. of Orthop. Surg., Kitasato Univ....S448
- 2-5-S22-4 Evolution of RSA implant selection: Perspectives on modern inlay and metaphyseal stability
 *Taku Hatta*, Joint Surg., Sports Clinic Ishinomaki...S448
- 2-5-S22-5 Canceled

9 : 30 ~ 10 : 50	Symposium 23	Moderators E. Itoi, H. Sugaya
Non-anatomic rotator cuff repair: Indications and limitations		

- 2-5-S23-1 Indications and limitations of Ex-medialization
 *Yasuhiro Mizuki, et al.*, Dept. of Orthop. Surg., Sasebo Kyosai Hosp....S450
- 2-5-S23-2 Arthroscopic rotator cuff repair with muscle advancement and biceps patch augmentation
 *Shin Yokoya, et al.*, Dept. of Orthop. Surg., Hiroshima Citizens Hosp....S450
- 2-5-S23-3 Arthroscopic muscle advancement to achieve primary repair
 *Ryuhei Furukawa, et al.*, Dept. of Orthop. Surg., Rakuwakai Marutamachi Hosp....S451

- 2-5-S23-4 Arthroscopic superior capsule reconstruction for irreparable rotator cuff tears
*Akihiko Hasegawa, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ. ...S451
- 2-5-S23-5 Arthroscopically assisted tendon transfer for irreparable massive rotator cuff tears
*Kotaro Yamakado*, Sports Medicine Center, Kansai Medical Univ. ...S452

11 : 05 ~ 12 : 05	Invited lecture 13 (English)	Moderator K. Inagaki
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- 2-5-IL13-2 Surgical treatment for missed Monteggia fracture dislocation: Limitation of ulnar osteotomy
*Emiko Horii, et al.*, Dept. of Orthop. Surg., Kansai Medical Univ. Hosp. ...S453
- 2-5-IL13-1 Elbow instability: A bridge between present, past and future
*Shawn W. O'Driscoll*, Global Elbow Network ...S453

12 : 35 ~ 13 : 45	Luncheon seminar 16	Moderator M. Ishikawa
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- 2-5-LS16-1 Embracing DX and AI in orthopaedics: A career-long perspective
*Yutaka Morizaki*, NTT Medical Center Tokyo ...S454
- 2-5-LS16-2 Development and social implementation of digital transformation and AI solutions in surgical team healthcare
*Junichi Ohya*, Quotomy, Inc. ...S454

14 : 00 ~ 15 : 20	Symposium 24	Moderators S. Imai, K. Kikugawa
The cutting edge of arthroscopic rotator cuff repair to prevent re-tear of rotator cuff tears		

- 2-5-S24-1 Indications and application of medialized single-row repair for rotator cuff tears
*Kotaro Yamakado*, Sports Medicine Center, Kansai Medical Univ. ...S455
- 2-5-S24-2 Current strategies in arthroscopic rotator cuff repair to prevent retear: Triple-row technique
*Makoto Tanaka*, Center for Sports Medicine, Osaka Keisatsu Hosp. ...S455
- 2-5-S24-3 To prevent postoperative retear of rotator cuff tendon: Progress in surgical techniques and therapeutic materials
*Hiroataka Sano, et al.*, Div. of Orthop., Sendai City Hosp. ...S456
- 2-5-S24-4 Tackling fosbury flop tears: Four key strategies to prevent re-tear and the latest advances in repair techniques
*Yukihiro Kajita*, Dept. of Orthop. Surg., Ichinomiya Nishi Hosp. ...S456
- 2-5-S24-5 Superior capsule reconstruction for reinforcement of arthroscopic rotator cuff repair
*Akihiko Hasegawa, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ. ...S457

15 : 35 ~ 16 : 35	Instructional lecture 20	Moderator H. Ikegami
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- 2-5-EL20 Diagnosis and treatment for the elbow fractures: Children and adults
*Junya Imatani*, Dept. of Orthop. Surg., Okayama Saiseikai General Hosp. ...S458

16 : 50 ~ 18 : 10	Symposium 25	Moderators H. Goto, N. Nishinaka
Up-to-date diagnosis and treatment of frozen shoulder		

- 2-5-S25-1 Is the diagnosis of Frozen shoulder appropriate? Consideration based on the questionnaire survey to the Councilors of Japan Shoulder Society
*Hiroataka Sano*, Div. of Orthop., Sendai City Hosp. ...S459
- 2-5-S25-2 Pathology of frozen shoulder: An overview
*Kazuya Tamai, et al.*, Dept. of Orthop. Surg., Tohto Bunkyo Hosp. ...S459
- 2-5-S25-3 Imaging characteristics of frozen shoulder
*Taiki Nozaki*, Dept. of Radiology, National Defense Medical College ...S460
- 2-5-S25-4 Noninvasive manipulation under ultrasound-guided cervical nerve root block for shoulder contracture
*Kazuma Miyatake*, Dept. of Orthop. Surg., Yokohama City Univ. Hosp. ...S460
- 2-5-S25-5 Treatment outcomes for frozen shoulder over the past six years and factors resistant to conservative therapy
*Yusuke Iwahori, et al.*, Sports Medicine and Joint Center, Kasugai Orthop. Asahi Hosp. ...S461

2nd Day May 22 Room 6

8 : 00 ~ 9 : 20 Symposium 26

Moderators Y. Mikami, S. Imagama

Neurological disorders orthopaedists should keep in mind

- 2-6-S26-1 The hourglass-like constrictions in peripheral nerves are pathognomonic lesions in neuralgic amyotrophy ··· *Shinichi Yamamoto*, Peripheral Nerve Surg., Yokohama Rosai Hosp.···S462
- 2-6-S26-2 Nerve compression factors and pathomechanisms in thoracic outlet syndrome: Analysis of endoscopic surgical findings ············ *Kozo Furushima, et al.*, Keiyu Orthop. Hosp.···S462
- 2-6-S26-3 Searching for the brain localization of functional neurological disorders and hysterical symptoms ············ *Hiroshi Takashima*, Dept. of Neurology and Geriatrics, Kagoshima Univ. Graduate School of Medical and Dental Sciences···S463
- 2-6-S26-4 Diagnosis and treatment of amyloidosis ············ *Mitsuharu Ueda*, Dept. of Neurology, Graduate School of Medical Sciences, Kumamoto Univ.···S463
- 2-6-S26-5 Superficial siderosis due to neuropathies ····· *Toshitaka Yoshii*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo···S464
- 2-6-S26-6 Imaging of peripheral nerves and spine ············ *Kei Yamada*, Dept. of Radiology, Kyoto Prefectural Univ. of Medicine···S464

9 : 30 ~ 10 : 50 Symposium 27

Moderators H. Ono, K. Sato

Treatment strategies for fractures near the PIP joint (including intra-articular fractures)

- 2-6-S27-1 Relationship between locking plate location and postoperative clinical outcomes in the treatment of proximal phalangeal fractures near the PIP joint ············ *Takeshi Katayama, et al.*, Dept. of Orthop. Surg., Ishinkai Yao Hosp.···S465
- 2-6-S27-2 Plate fixation for proximal phalangeal fractures: Cases of PIP joint intra-articular axial compression injury ············ *Hiroyuki Ohi*, Hand & Microsurgery Center, Seirei Hamamatsu General Hosp.···S465
- 2-6-S27-3 Treatment of dorsal fracture-dislocations of the proximal interphalangeal joint using the shotgun approach ············ *Kenji Onuma, et al.*, Dept. of Orthop. Surg., Kitasato Univ.···S466
- 2-6-S27-4 Treatment strategies for PIP joint fractures using the Ichi-Fixator System (IFS) ············ *Satoshi Ichihara, et al.*, Dept. of Orthop., Juntendo Univ.···S466
- 2-6-S27-5 Dynamic External fixator for fracture dislocation of the proximal interphalangeal joint ············ *Soya Nagao, et al.*, Div. of Orthop., Itabashi Medical Association Hosp.···S467
- 2-6-S27-6 Reconstruction of PIP injuries of fingers using osteochondral graft and external fixator ············ *Hiroyuki Gotani, et al.*, Dept. of Orthop., Osaka Ekisaikai Hosp.···S467

11 : 05 ~ 12 : 05 Free papers 32 Hand & elbow nerve

Moderators K. Iba, Y. Hara

- 2-6-1 Ultrasonographic evaluation of nerve regeneration after an artificial nerve graft for complete transection of the sciatic nerve in rats ····· *Koshiro Shimbo, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ. Hosp.···S468
- 2-6-2 Evaluation of postoperative improvement in carpal tunnel syndrome ············ *Toshimitsu Momose, et al.*, Dept. of Orthop. Surg., Marunouchi Hosp.···S468
- 2-6-3 Correlation between thenar muscle thickness by ultrasonographic evaluation and carpal tunnel syndrome instrument (CTSI) ············ *Issei Nagura, et al.*, Dept. of Orthop. Surg., Shinsuma Hosp.···S469
- 2-6-4 MRI and ultrasonographic findings and outcomes after interfascicular neurolysis in spontaneous anterior and posterior interosseous nerve palsy ············ *Yotaro Yamada, et al.*, Div. of Human Enhancement & Hand Surg., Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S469

- 2-6-5 Effect of supercharge end-to side anterior interosseous-to ulnar motor nerve transfer for severe cubital tunnel syndrome with intrinsic muscle palsy
 *Yukitoshi Kaizawa, et al.*, Dept. of Orthop. Surg., Kansai Electric Power Hosp. ...S470
- 2-6-6 Validation of qDESS for peripheral nerve morphometry: A cadaveric study
 *Hiroataka Akezuma, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S470

12 : 35 ~ 13 : 45 Luncheon seminar 17 Moderator S. Tanaka

- 2-6-LS17 Sustainable development goals (SDGs) for rheumatoid arthritis drug therapy achieved with biosimilars *Yasushi Miura*, Kobe Univ. Graduate School of Health Sciences ...S471

**14 : 00 ~ 15 : 20 Symposium 28 Moderators D. Osada, Y. Zenke
 Treatment of refractory distal radius fractures**

- 2-6-S28-1 Surgical strategies for distal radius fractures AO/OTA type C3: Defining the borderline with refractory cases *Keikichi Kawasaki, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. Northern Yokohama Hosp. ...S472
- 2-6-S28-2 Distal radius fractures with volar lunate facet rim fragment
 *Junya Imatani, et al.*, Dept. of Orthop. Surg., Okayama Saiseikai General Hosp. ...S472
- 2-6-S28-3 Treatment strategies for palmarly displaced fractures of the distal radius
 *Koji Moriya*, Dept. of Orthop. Surg., Niigata Hand Surg. Foundation Hosp. ...S473
- 2-6-S28-4 Arthroscopic management for distal radius fracture
 *Yukio Abe*, Dept. of Orthop. Saiseikai Shimonoseki General Hosp. ...S473
- 2-6-S28-5 Corrective osteotomy for malunited distal radius fractures
 *Masao Nishiwaki, et al.*, Dept. of Orthop. Surg., Ogikubo Hosp. ...S474

15 : 35 ~ 16 : 35 Instructional lecture 21 Moderator M. Yamamoto

- 2-6-EL21 Fundamentals for pursuing ideal treatment of flexor tendon injuries of the digits
 *Koji Moriya*, Dept. of Orthop. Surg., Niigata Hand Surg. Foundation Hosp. ...S475

**16 : 50 ~ 18 : 10 Symposium 29 Moderators S. Omokawa, T. Sunagawa
 Surgical treatment for thumb CMC osteoarthritis**

- 2-6-S29-1 Long-term results following arthrodesis for primary osteoarthritis of trapeziometacarpal joint
 *Yasunori Hattori, et al.*, Dept. of Orthop. Surg., Ogori Daiichi General Hosp. ...S476
- 2-6-S29-2 Modified ligament reconstruction with tissue interposition arthroplasty for thumb basal joint arthritis using free palmaris longus tendon graft
 *Yutaka Morizaki, et al.*, NTT Medical Center Tokyo ...S476
- 2-6-S29-3 Abduction-opposition wedge osteotomy of the first metacarpal for trapeziometacarpal osteoarthritis *Takahiko Dogo*, Dept. of Orthop. Surg., Sainou Hosp. ...S477
- 2-6-S29-4 Current trends and future directions in arthroscopic suture button suspensionplasty for thumb carpometacarpal arthritis
 *Hiroaki Sakano, et al.*, Dept. of Hand and Orthop. Surg., Hiratsuka Kyosai Hosp. ...S477

2nd Day May 22 Room 7

**8 : 00 ~ 9 : 20 Symposium 30 Moderators H. Takayanagi, H. Tsuchiya
 Arthritic synovium: From bench to bedside**

- 2-7-S30-1 Ultrasonography in arthritis *Kei Ikeda*, Dept. of Rheumatology, Dokkyo Medical Univ. ...S478
- 2-7-S30-2 The role of synovial biopsy in arthritis *Yasunori Omata*, Dept. of Orthop. Surg., Bone and Cartilage Regenerative Medicine, The Univ. of Tokyo Hosp. ...S478

- 2-7-S30-3 Tissue microenvironment responsible for the intractable pathophysiology of rheumatoid arthritis
*Haruka Tsuchiya*, Dept. of Allergy and Rheumatology, The Univ. of Tokyo...S479
- 2-7-S30-4 Analysis of pathogenic synovial fibroblasts in autoimmune arthritis
*Noriko Komatsu*, Dept. of Immune Regulation,
 Medical Research Lab, Institute of Science Tokyo...S479

9 : 30 ~ 10 : 50 Symposium 31 Moderators I. Matsushita, H. Ito
Orthopaedic surgical intervention for elderly patients with RA

- 2-7-S31-1 Confronting the super-aging era: Functional assessment and surgery in older patients with rheumatoid arthritis*Toshihisa Kojima*, Dept. Orthop. Surg., NHO Nagoya Medical Center...S480
- 2-7-S31-2 The double burden of RA and aging: Surgical strategies considering frailty and sarcopenia
*Masahiro Tada, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp....S480
- 2-7-S31-3 Surgery of the upper extremity in elderly patients with rheumatoid arthritis
*Keiichiro Nishida*, Locomotive Pain Center,
 Faculty of Medical Development Field, Okayama Univ....S481
- 2-7-S31-4 Lower limb surgery in elderly patients with rheumatoid arthritis (RA)
*Makoto Hirao*, Dept. of Orthop. Surg.,
 Field of Surg., Nippon Medical School, Graduate School of Medicine...S481
- 2-7-S31-5 My approach to minimally invasive spinal surgery history of MIST techniques and the future development*Takanori Saito*, Dept. of Orthop. Surg., Kansai Medical Univ....S482
- 2-7-S31-6 Osteoporosis and fracture-related surgery in elderly patients with rheumatoid arthritis: Challenges and our clinical strategies*Shunsuke Takahara, et al.*, Dept. of Orthop. Surg.,
 Hyogo Prefectural Kakogawa Medical Center...S482

11 : 05 ~ 12 : 05 Free papers 33 Osteoporosis: Evaluation Moderators K. Chiba, T. Tetsunaga

- 2-7-1 Development and validation of an artificial intelligence model to identify patients who benefit most from an anabolic first approach
*Kosuke Ebina, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka...S483
- 2-7-2 Estimated BMD decline in THA cases from 2007 to 2023: A cross-sectional annual analysis using AI-based osteoporosis diagnosis support system
*Mayu Iiboshi, et al.*, Orthop. Surg., Sensory and Motor System Medicine,
 Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo...S483
- 2-7-3 Association between android and gynoid fat mass and spinal Hounsfield unit values
*Yuma Hashimoto, et al.*, Dept. of Orthop. Surg., Hakodate Central General Hosp....S484
- 2-7-4 Changes in body composition in middle-aged and older adults living in the community focusing on weight loss: A longitudinal study*Naoki Segi, et al.*, Dept. of Orthop./Rheumatology,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ....S484
- 2-7-5 From liver to bone: Impact of fibrosis on osteoporosis risk in MASLD
*Yu Toda, et al.*, Dept. of Orthop. Surg., Saga Univ....S485
- 2-7-6 Diameter of drill hole for screw insertion increases in osteoporotic bone
*Shinji Imade, et al.*, Dept. of Orthop., Shimane Univ....S485

12 : 35 ~ 13 : 45 Luncheon seminar 18 Moderator H. Ishibashi

- 2-7-LS18 Osteoporosis treatment for patients with fragility fractures is the responsibility of orthopaedic surgeons*Hiroshi Hagino*, Dept. of Rehabilitation, Sanin Rosai Hosp....S486

14 : 00 ~ 15 : 20 **Symposium 32** **Moderators A. Sakai, H. Nagashima**
Understanding imminent fracture risk and preventing secondary fractures:
A guide for orthopaedic surgeons

- 2-7-S32-1 Current status and countermeasures for imminent fracture risk in the late elderly population
in Japan *Manabu Tsukamoto, et al.*, Dept. of Orthop. Surg.,
School of Medicine, Univ. of Occupational and Environmental Health...S487
- 2-7-S32-2 Imminent fracture risk: A geriatric medicine perspective
..... *Tomohiko Urano*, Dept. of Geriatric Medicine, International Univ. of Health and Welfare...S487
- 2-7-S32-3 Imminent fracture risk after hip fracture
..... *Hiroshi Hagino*, Dept. of Rehabilitation, Sanin Rosai Hosp....S488
- 2-7-S32-4 Imminent fracture risk after vertebral fracture: Comprehensive prevention through early
detection and treatment with regional, administrative, and multidisciplinary collaboration
..... *Takahiko Hamasaki, et al.*, Dept. of Orthop. Surg., Chugoku Rosai Hosp....S488

15 : 35 ~ 16 : 35 **Instructional lecture 22** **Moderator T. Saito**

- 2-7-EL22 A strategy for long term osteoporosis therapy
..... *Takeshi Miyamoto*, Dept. of Orthop. Surg., Faculty of Life Sciences, Kumamoto Univ....S489

16 : 50 ~ 18 : 10 **Symposium 33** **Moderators T. Miyamoto, T. Saito**
Treatment of difficult osteoporosis and bone metabolic diseases

- 2-7-S33-1 Can we change the fate of bone?: The role of anabolic agents in osteoporosis treatment
..... *Kosuke Ebina, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medicine, The Univ. of Osaka...S490
- 2-7-S33-2 Clinical management of osteogenesis imperfecta: Innovations in drug therapy and
multidisciplinary care with pediatrics and orthopaedics *Yasuhisa Ohata*, Dept. of Pediatrics,
Graduate School of Medicine, The Univ. of Osaka...S490
- 2-7-S33-3 Premenopausal osteoporosis and male osteoporosis
..... *Nobuaki Ito*, Div. of Therapeutic Dept. for Intractable Bone Diseases,
Graduate School of Medicine, The Univ. of Tokyo...S491
- 2-7-S33-4 CKD-MBD and osteoporosis *Hiroataka Komaba*, Div. of Nephrology,
Endocrinology and Metabolism, Tokai Univ. School of Medicine...S491
- 2-7-S33-5 Role of estrogen in maintaining the bone mineral density
..... *Osamu Hiraike*, Dept. of Obstetrics and Gynecology, Univ. of Tokyo Hosp....S492
- 2-7-S33-6 Eating disorders *Mariko Ogawa*, Fukushima Medical Center for Children and Women,
Fukushima Medical Univ....S492

2nd Day May 22 Room 8

8 : 00 ~ 9 : 20 **Symposium 34** **Moderators T. Kumai, I. Yoshimura**
Updates in the treatment of ankle sprains

- 2-8-S34-1 A new anatomical perspective on lateral ankle ligament injuries
..... *Kentaro Amaha*, Dept. of Orthop. Surg., St. Luke's International Hosp....S493
- 2-8-S34-2 Challenges in diagnosing ankle sprains and assessing instability
..... *Satoshi Yamaguchi, et al.*, Graduate School of Global and Transdisciplinary Studies,
Chiba Univ....S493
- 2-8-S34-3 Conservative treatment for ankle sprains: Rehabilitation and return to sports
..... *Hirofumi Tanaka, et al.*, Hyakutake Orthop. Surg. and Sports Clinic...S494

- 2-8-S34-4 Diagnosis and treatment of distal tibiofibular ligament and deltoid ligament injuries associated with ankle sprain *Atsushi Teramoto, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S494
- 2-8-S34-5 Novel minimally invasive surgical techniques for chronic lateral ankle ligament injuries *Noriyuki Kanzaki, et al.*, Joint Preservation & Reconstruction Surg., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S495

9 : 30 ~ 10 : 50 Symposium 35 **Moderators M. Kubota, K. Ikoma**
Reconsidering flatfoot: Pathology and treatment strategies in children and adults

- 2-8-S35-1 Pathophysiology, diagnosis, and treatment of flatfoot in children *Tatsuiro Ochiai, et al.*, Dept. of Orthop. Surg., Miyagi Children's Hosp. ...S496
- 2-8-S35-2 Perspective of terminology review on flatfoot: A new framework of progressive collapsing foot deformity *Takumi Matsumoto, et al.*, Dept. of Orthop., Jichi Medical Univ. ...S496
- 2-8-S35-3 Classifying adult flatfoot: From historical evolution to the current challenges of the PCFD system *Jun-ichi Fukushi, et al.*, Dept. of Orthop. Surg., Kyushu Medical Center ...S497
- 2-8-S35-4 Pathophysiology and progression mechanisms of progressive collapsing foot deformity (PCFD) *Hiroyuki Mitsui, et al.*, Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine ...S497
- 2-8-S35-5 Update on reconstructive surgery for progressive collapsing flatfoot deformity *Masahiro Maki, et al.*, The Orthop. Foot & Ankle Center, Kouseikai Takeda Hosp. ...S498

11 : 05 ~ 12 : 05 Invited lecture 14 (English) **Moderator M. Hirao**

- 2-8-IL14-1 Total ankle replacement: Past, present and future *James A. Nunley, et al.*, Dept. of Orthop. Surg., Duke Univ., Durham, NC, USA ...S499
- 2-8-IL14-2 Evolution of total ankle arthroplasty in Japan: Toward the establishment of combined TAA *Akira Taniguchi, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S499

12 : 35 ~ 13 : 45 Luncheon seminar 19 **Moderator A. Sakai**

- 2-8-LS19 Practical community collaboration in osteoporosis: Achievements and challenges *Nobukazu Okimoto, et al.*, Dept. of Orthop. Surg., Okimoto Clinic ...S500

14 : 00 ~ 15 : 00 Free papers 34 Foot & ankle **Moderators T. Hashimoto, T. Nakasa**

- 2-8-1 The medial cuneiform bone morphology is associated with the development of hallux valgus *Mayu Nishiguchi, et al.*, Dept. of Orthop. Surg., Hyogo Medical Univ. ...S501
- 2-8-2 Cadaveric study on Lisfranc joint stability *Sayaka Wakiyama, et al.*, Dept. of Orthop. Surg., Nara Prefecture General Medical Center ...S501
- 2-8-3 Evaluation of the amount of peroneus longus tendon insertion resection with modified Lapidus procedure for severe hallux valgus *Satoru Sakurai, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S502
- 2-8-4 Breakpoint in the correlation between Meary's angle and navicular height: A novel indicator for flatfoot evaluation *Nori Yamashita, et al.*, Dept. of Orthop. Surg., The Jikei Univ. School of Medicine ...S502
- 2-8-5 Short-term outcomes of posterior tibial tendon augmentation using the Leeds-Keio artificial ligament and consideration of indications for PCFD *Chika Nakaniwa, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S503
- 2-8-6 Intrasheath peroneal tendon subluxation: Clinical insights into pathology and the effectiveness of surgical treatment *Jun Takeda, et al.*, Dept. of Orthop., Juntendo Univ. ...S503

15 : 35 ~ 16 : 35 Instructional lecture 23 **Moderator N. Samoto**

- 2-8-EL23 Clinical features and treatment of chronic ankle instability *Atsushi Teramoto, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S504

16 : 50 ~ 17 : 50 **Afternoon seminar 1 (English)** **Moderator Y. Inaba**

- 2-8-AS1 Prevention of common complications after THA
 *Javad Parvizi*, Dept. of Orthop. Surg., Acibadem Univ., Ardmore, PA, USA/
Hyonmin Choe, Musculoskeletal Science, Yokohama City Univ. ...S504

2nd Day May 22 Room 9

8 : 00 ~ 9 : 00 **Free papers 35 Molecular biology** **Moderators M. Sato, N. Fujita**

- 2-9-1 S100A4-TLR4-TGF- β axis as a therapeutic target for Dupuytren's contracture in diabetic patients
 *Koki Kato, et al.*, Dept. of Orthop. Surg., Div. of Disease Control,
 Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ. ...S505
- 2-9-2 Molecular biological changes in the Achilles tendon under microgravity-induced disuse in space
 *Taro Kasai, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo ...S505
- 2-9-3 Disease susceptibility loci and genetic background of developmental dysplasia of the hip revealed
 by multicenter genome wide association study *Soichiro Yoshino, et al.*, Dept. of Orthop. Surg.,
 Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S506
- 2-9-4 Multi-omics profiling identifies osteoclast signatures in developing bone
 *Yasuhito Yahara, et al.*, Dept. of Orthop. Surg., Faculty of Medicine, Univ. of Toyama ...S506
- 2-9-5 Transcriptional factor REST is involved the age-related suppression of osteoblast differentiation
 *Norizumi Imazu, et al.*, Dept. of Orthop., Juntendo Univ. ...S507
- 2-9-6 An innovative drug delivery system for bone regeneration: Acidic peptide-bound chondroitin
 sulfate E *Kosuke Umemura, et al.*, Dept. of Orthop. Surg., Div. of Disease Control,
 Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ. ...S507

9 : 30 ~ 10 : 30 **Free papers 36** **Moderators K. Matsuda, T. Akiyama**
Basic research in cancer & infectious

- 2-9-7 Clinical significance of extrachromosomal DNA in bone and soft tissue sarcomas: A pan-histological
 analysis using whole-genome sequencing
 *Toshihide Hirai, et al.*, Dept. of Musculoskeletal Oncol.,
 Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp. ...S508
- 2-9-8 Identification of TIMELESS as the master regulator for occurrence of bone metastasis
 *Hirokazu Shimizu, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S508
- 2-9-9 Therapeutic development of hypoxia-responsive doxorubicin prodrug for soft tissue sarcoma
 *Akihiro Oda, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S509
- 2-9-10 Effects of blue light irradiation on metastatic bone tumor cells and bone metabolism
 *Keisuke Nishidono, et al.*, Dept. of Orthop.,
 Institute of Biomedical Sciences, Tokushima Univ. Graduate School ...S509
- 2-9-11 Proteomics analysis for the identification of novel therapeutic targets for malignant peripheral
 nerve sheath tumors *Itaru Ogawa, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S510
- 2-9-12 Effects of halicin on small colony variants of *S. aureus*
 *Akira Morita, et al.*, Dept. of Orthop. Surg., Yokohama City Univ. Hosp. ...S510

11 : 05 ~ 12 : 05 **Free papers 37 Infection: Epidemiology** **Moderators K. Izawa, K. Uchiyama**

- 2-9-13 Potential surgical site infection biomarkers identified by plasma metabolome analysis
 *Norihiro Isogai, et al.*, Dept. of Orthop. Surg., International Univ. of Health and Welfare ...S511

- 2-9-14 Preoperative serum factors and cefazolin resistance in spinal SSI
*Hiroki Katayama, et al.*, Musculoskeletal Science,
 Yokohama City Univ. Graduate School of Medicine...S511
- 2-9-15 Comparative analysis of the predictive value of NLR, PNI, and GNRI for surgical site infection after
 spinal surgery*Fumihiko Inoue, et al.*, Dept. of Orthop. Surg., Saga Univ...S512
- 2-9-16 A novel prognostic score for necrotizing soft tissue infection: Multicenter retrospective
 TRON study*Hiroya Mizokami, et al.*, Dept. of Orthop. Surg., Kariya Toyota General Hosp...S512
- 2-9-17 Trends in postoperative infections and pathogens after spinal surgery: Analysis of 10,432 cases
 over 15 years*Takahito Iga, et al.*, Dept. of Orthop. Surg., Keio Univ...S513
- 2-9-18 Treatment trends and outcomes of pyogenic vertebral osteomyelitis in Japan, 2015-2023
*Takaki Yoshiyama, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ...S513

12 : 35 ~ 13 : 45	Luncheon seminar 20	Moderator N. Miyakoshi
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- 2-9-LS20-1 Pitfalls in osteoporosis diagnosis: Recognizing osteomalacia, the rare disorder concealed
 behind pain*Taku Saito*, Orthop. Surg., Sensory and Motor System Medicine,
 Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo...S514
- 2-9-LS20-2 Tumor-induced osteomalacia: Understanding fragility fracture patterns for early diagnosis
*Hiroshi Kobayashi*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S514

14 : 00 ~ 15 : 00	Free papers (English) 38	Moderators K. Kosaki, H. Watanabe
Pediatrics, rehabilitation, and others		

- 2-9-19 The diagnostic efficacy of MRI-based vertebral bone quality score in assessing bone mineral
 density in AIS: A retrospective cohort study
*Shahzaib Riaz Baloch*, Dept. of Orthop. & Spine Surg., Dr. Zia Hosp., Karachi, Pakistan...S515
- 2-9-20 Deep learning keypoint detection for radiographic screening for developmental dysplasia of the hip
 in infants*Masatoshi Oba, et al.*, Dept. of Orthop. Surg., Kanagawa Children's Medical Center...S515
- 2-9-21 Identification of modifiable risk factors for casting-associated sores in the Ponseti management of
 idiopathic congenital talipes equinovarus: An ambispective analysis
*Sitanshu Barik, et al.*, Dept. of Orthop., AIIMS, Nagpur, India...S516
- 2-9-22 Mathematical stability modeling of pre-fall locomotor instability using wearable gait datasets to
 quantify risk in orthopaedic rehabilitation
*Prihantini Prihantini, et al.*, AI-BioMedicine Research Group,
 IMCDS-BioMed Research Foundation, Jakarta, Indonesia...S516
- 2-9-23 Assessment of muscle quality and quantity in individuals with diffuse idiopathic skeletal
 hyperostosis: Analysis of health screening data
*Kosei Ono, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ...S517
- 2-9-24 Machine learning-driven prediction of socioeconomic disparities in knee arthroplasty utilization
*Elfiany Syafruddin*, Computational Science Research Lab.,
 BLK Muhammadiyah Univ., Bulukumba, Indonesia...S517

15 : 35 ~ 16 : 35	Afternoon seminar 2	Moderator M. Tokunaga
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- 2-9-AS2-1 Prevention of venous thromboembolism after total knee arthroplasty: Including the experience
 with the neuromuscular electrostimulation device
*Tomoyuki Matsumoto, et al.*, Dept. of Orthop. Surg.,
 Kobe Univ. Graduate School of Medicine...S518
- 2-9-AS2-2 Short-term clinical outcomes using Coolief cooled radiofrequency ablation therapy as a novel
 treatment strategy for chronic postsurgical pain after TKA
*Masanori Tsubosaka, et al.*, Dept. of Orthop. Surg.,
 Kobe Univ. Graduate School of Medicine...S518

16 : 50 ~ 17 : 50	Afternoon seminar 3	Moderator S. Matsuda
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- 2-9-AS3-1 Real-world evidence emerging from passive data collection
 *Takafumi Hiranaka*, Dept. of Orthop. Surg. and Joint Surg. Centre,
 Takatsuki General Hosp. ...S519
- 2-9-AS3-2 Defining the optimal TKA in the era of big data and robotics
 *Kentaro Igarashi*, Dept. of Orthop. Surg., Yokohama Sakae Kyosai Hosp. ...S519

18 : 00 ~ 18 : 30	SICOT Special lecture (English)	Moderator S. Matsuda
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- How is technology helping us in driving hip preservation surgery forward?
 *Vikas Khanduja*, Société Internationale de Chirurgie Orthopédique et de Traumatologie

2nd Day May 22 Room 10

8 : 00 ~ 9 : 20	Symposium 36	Moderators H. Inoue, T. Noda
Insufficiency fractures: Recent topics		

- 2-10-S36-1 Treatment strategies for distal radius fractures as fragility fractures: Reflecting on the past, present, and future *Yukichi Zenke, et al.*, Trauma Reconstruction Center, Univ. of Occupational and Environmental Health ...S520
- 2-10-S36-2 Current topics in surgical treatment of proximal humerus fractures
 *Chuji Terada*, Dept. of Orthop. Surg., Fukuyama City Hosp. ...S520
- 2-10-S36-3 Total care for osteoporotic vertebral fractures: Optimal surgical strategy centered on anterior column reconstruction and perioperative management
 *Masayuki Ishihara*, Dept. of Orthop. Surg., Kansai Medical Univ. ...S521
- 2-10-S36-4 Has the treatment of fragile pelvic fractures changed in the past 10 years?
 *Yasuhisa Ueda, et al.*, Advanced Center for Emergency and Critical Care Medicine, Saitama Medical Center, Saitama Medical Univ. ...S521
- 2-10-S36-5 Orthogeriatric co-management for hip fractures: Practice and recent advances
 *Takahiro Waki, et al.*, Dept. of Orthop. Surg., Akashi Medical Center ...S522

9 : 30 ~ 10 : 50	Symposium 37	Moderators H. Minehara, S. Suganuma
Fracture treatment in multiple trauma		

- 2-10-S37-1 Preventable trauma death and disability in multiple trauma: Strategies to reduce mortality and functional impairment
 *Hiroaki Watanabe*, Shimane Advanced Trauma Center, Shimane Univ. Hosp. ...S523
- 2-10-S37-2 Treatment strategies for pelvic ring fractures in polytrauma: Validity and precautions of early definitive internal fixation
 *Norihide Kanda, et al.*, Advanced Critical Care Center, Gifu Univ. Hosp. ...S523
- 2-10-S37-3 The treatment of femoral shaft fracture in severe trauma with an ISS ≥ 16
 *Takao Mae*, Dept. of Orthop. Surg., Sagaken Medical Centre Koseikan ...S524
- 2-10-S37-4 The cutting edge of traumatic spinal cord injury treatment in multiple trauma
 *Koichi Inokuchi, et al.*, Advanced Center for Emergency and Critical Care Medicine, Saitama Medical Center, Saitama Medical Univ. ...S524

11 : 05 ~ 12 : 05	Invited lecture 15 (English)	Moderator K. Matsui
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- 2-10-IL15-1 National guidelines improve outcomes for patients with open fractures
 *Jagdeep Nanchahal*, Kennedy Institute, Oxford Univ., Oxford, UK ...S525

2-10-IL15-2 Current status of the management of acute Gustilo Type 3B open tibial fractures in Japan
*Kentaro Futamura*, Trauma Center, Shonan Kamakura General Hosp.S525

12 : 35 ~ 13 : 45	Luncheon seminar 21	Moderator H. Tsuchiya
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2-10-LS21-1 Research on controlling postoperative infections related to implants: Why iodine?
*Toshiharu Shirai, et al.*, Dept. of Orthop. Surg., Yokohama Sakae Kyosai Hosp.S526

2-10-LS21-2 Total hip arthroplasty suppressing perioperative periprosthetic joint infections: Clinical application and prospects of iodine coating technology
*Tamon Kabata, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.S526

14 : 00 ~ 15 : 20	Symposium 38 Fragility fractures of the pelvis	Moderators T. Iga, T. Noda
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2-10-S38-1 Diagnosis for fragility fracture of the pelvis
*Naofumi Shiota, et al.*, Dept. of Orthop. Surg. and Rehabilitation, Okayama Medical CenterS527

2-10-S38-2 Conservative treatment for fragility fracture of the pelvis
*Takashi Miyamoto*, Dept. of Orthop. Surg., Nagasaki Medical CenterS527

2-10-S38-3 Surgical treatment of fragility fractures of the pelvis
*Kazuo Sato, et al.*, Dept. of Orthop. Trauma, Sapporo Higashi Tokushukai Hosp.S528

2-10-S38-4 Osteoporosis treatment for patients with fragility fractures of the pelvis
*Takahiro Niikura, et al.*, Dept. of Orthop. Surg., Hyogo Prefectural Nishinomiya Hosp.S528

15 : 35 ~ 16 : 35	Instructional lecture 24	Moderator M. Todo
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2-10-EL24 Evolving strategies in fracture management for polytrauma patients
*Hiroaki Minehara, et al.*, Dept. of Traumatology, Fukushima Medical Univ. / Trauma and Recon. Center, Shin-yurigaoka General Hosp.S529

16 : 50 ~ 18 : 10	Symposium 39 Treatment of acute orthopaedic trauma in disasters	Moderators K. Inokuchi, T. Kurozumi
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2-10-S39-1 What knowledge and skills are required of orthopaedic surgeons in times of disaster?
*Taketo Kurozumi*, Dept. of Emergency Medicine, Teikyo Univ.S530

2-10-S39-2 What is the optimal treatment pathway for patients with multiple open fractures in major disasters?
*Shimpei Kitada, et al.*, Dept. of Orthop. Trauma Center, Hyogo Prefectural Nishinomiya Hosp.S530

2-10-S39-3 Treatment of spinal injuries during disasters
*Yasuo Ito, et al.*, Dept. of Orthop. Surg., Japanese Red Cross Kobe Hosp.S531

2-10-S39-4 Acute management of pelvic trauma in disaster situations
*Tomomi Fukuhara*, Dept. of Traumatology and Reconstructive Surg., Saiseikai Niigata Kenoh Hosp.S531

2-10-S39-5 Management of crush syndrome in disasters: Clinical experience with four cases
*Hirofumi Okano*, Dept. of Orthop. Surg., Hiroshima Red Cross Hosp. and Atomic-bomb Survivors Hosp.S532

2-10-S39-6 Systemic management of crush syndrome and the essential role of Orthopaedic surgeons in disaster response
*Jiro Oba, et al.*, DMAT Secretariat, Bureau of Health Security and Management, Japan Institute for Health Security (JIHS)S532

2nd Day May 22 Room 11

8 : 00 ~ 9 : 20 JOA Directors' proposed symposium 4 Moderators H. Morioka, H. Kawano

A turning point in the treatment of bone metastases:

Preserving motor function to enhance the well-being of cancer patients

- 2-11-JS4-1 Surgical outcomes of extremity bone metastases: Ambulatory function recovery and minimally invasive treatment options
 *Hitomi Hara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S533
- 2-11-JS4-2 Definitive surgery for long bone metastases toward enhanced patient well-being
 *Shintaro Iwata, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp...S533
- 2-11-JS4-3 Treatment outcomes in patients with spinal metastases
 *Shurei Sugita, et al.*, Dept. of Orthop. Surg., Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp...S534
- 2-11-JS4-4 Treatment strategies with immune checkpoint inhibitors for bone and spinal metastases based on individualized assessment
 *Yoshihiro Matsumoto*, Dept. of Orthop. Surg., Fukushima Medical Univ...S534
- 2-11-JS4-5 Walking ability and employment in patients with bone metastases
 *Yusuke Shinoda*, Dept. of Rehabilitation Medicine, Saitama Medical Univ...S535

9 : 30 ~ 10 : 50 Symposium 40 Moderators K. Ae, M. Endo

State-of-the-art treatment of bone and soft tissue tumors

- 2-11-S40-1 The role and challenges of the COMPRESS device: Eliminating aseptic loosening in tumor endoprosthesis *Robert Nakayama, et al.*, Dept. of Orthop. Surg., Keio Univ...S536
- 2-11-S40-2 Role of radiofrequency ablation for bone and soft tissue tumors
 *Jungo Imanishi, et al.*, Dept. of Orthop. Surg., Teikyo Univ...S536
- 2-11-S40-3 A paradigm shift in tumor amputation: Functional reconstruction with state-of-the-art prosthetics and the surgeon's role
 *Sayaka Fujiwara*, Rehabilitation Center, The Univ. of Tokyo Hosp...S537
- 2-11-S40-4 The potential of metaverse utilization in bone and soft tissue tumor care: Toward reducing isolation and promoting peer interaction
 *Joe Hasei*, Dept. of Medical Informatics and Clinical Support Technology Development, Okayama Univ. Graduate School of Medicine, Dentistry and Pharmaceutical Sciences...S537
- 2-11-S40-5 Development of virotherapy for musculoskeletal tumors
 *Satoshi Nagano, et al.*, Dept. of Physical Therapy, School of Health Sciences, Faculty of Medicine, Kagoshima Univ...S538

11 : 05 ~ 12 : 05 Invited lecture 16 (English) Moderator H. Morioka

- 2-11-IL16-1 Scientific evolution and clinical update on minimally invasive management of periacetabular metastases and pathological fractures
 *Francis Lee*, Dept. of Orthop. Surg., Yale Univ., New Haven, CT, USA...S539
- 2-11-IL16-2 Advances in the treatment of bone and spinal metastases: Prognosis, genomic profiling, and surgical perspectives
 *Yoshihiro Matsumoto*, Dept. of Orthop. Surg., Fukushima Medical Univ...S539

12 : 35 ~ 13 : 45 Luncheon seminar 22 Moderator Y. Itoi

- 2-11-LS22-1 Experience of bone marrow-derived mesenchymal stem cell therapy for spinal cord injury
 *Keisuke Ishii*, Dept. of Orthop. Surg., Teikyo Univ...S540

2-11-LS22-2 Update on bone marrow-derived mesenchymal stem cell therapy for spinal cord injury
*Ryosuke Hirota, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.··S540

14 : 00 ~ 15 : 20	Symposium 41	Moderators H. Kawashima, H. Kobayashi
Genomic medicine and research		

- 2-11-S41-1 Real-world data research on cancer genome medicine: Human intelligence challenged by advances in AI
*Masachika Ikegami*, Div. of Cellular Signaling, National Cancer Center Research Institute··S541
- 2-11-S41-2 Performance characteristics of a dual DNA-RNA comprehensive genomic profiling test
*Kousuke Watanabe*, Next-Generation Precision Medicine Development Laboratory, Graduate School of Medicine, The Univ. of Tokyo··S541
- 2-11-S41-3 Liquid biopsy in bone and soft tissue sarcomas: Current status and future perspectives
*Tomohiro Fujiwara, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.··S542
- 2-11-S41-4 Whole-genome sequencing in bone and soft tissue tumors: Current status and future perspectives*Toshihide Hirai, et al.*, Dept. of Musculoskeletal Oncol., Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.··S542
- 2-11-S41-5 Novel cancer drug development in the era of cancer genomic medicine
*Tatsunori Shimoi*, National Cancer Center Hosp.··S543

15 : 35 ~ 16 : 35	Instructional lecture 25	Moderator H. Murakami
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2-11-EL25 Diagnosis and treatment strategy in spinal tumors*Shurei Sugita*, Dept. of Orthop. Surg., Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.··S544

16 : 50 ~ 18 : 10	Symposium 42	Moderators H. Kawano, T. Noda
The role of orthopaedic surgeons in the treatment of bone metastases		

- 2-11-S42-1 Challenging the norms of immobility in bone metastasis patients
*Tabu Gokita, et al.*, Dept. of Orthop. Oncology, Saitama Cancer Center··S545
- 2-11-S42-2 The role of orthopaedic surgeons in bone metastasis management: University hospital approaches*Kunihiko Ikuta, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.··S545
- 2-11-S42-3 The role of orthopaedic surgeons in the management of bone metastases
*Kenta Momii, et al.*, Kyushu Univ. Hosp. Emergency and Critical Care Center··S546
- 2-11-S42-4 The roles for the treatment of bone metastasis by general orthopaedic physicians in local general hospitals*Keigo Yasui*, Dept. of Orthop. Surg., Obihiro Kosei Hosp.··S546
- 2-11-S42-5 Surgical management of bone metastases: A collaborative framework for designated cancer care hospitals, general orthopaedic surgeons, and musculoskeletal oncologists
*Jungo Imanishi, et al.*, Dept. of Orthop. Surg., Teikyo Univ.··S547
- 2-11-S42-6 The measures to promote the active involvement of orthopaedic surgeons in the management of bone metastases*Hideo Morioka, et al.*, Dept. of Orthop. Surg., Tokyo Medical Center··S547

2nd Day May 22 Room 12

8 : 00 ~ 9 : 20	Symposium 43 Pediatric trauma	Moderators N. Ota, T. Kinjo
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2-12-S43-1 Tips for ordering and interpreting images of children's fractures
*Taichi Irie*, Div. of Orthop., Sendai City Hosp.··S548

- 2-12-S43-2 Practical remodeling of pediatric fractures: Fractures that remodel and fractures that do not
 *Yohei Tomaru, et al.*, Chiba Child & Adult Orthop. Clinic...S548
- 2-12-S43-3 Lessons learned from regrettable surgical decisions in pediatric trauma
 *Ryosuke Sakata, et al.*, Dept. of Orthop. Surg., Kobe Children's Hosp...S549
- 2-12-S43-4 Regretted outcomes of conservative treatment for a fracture
 *Noboru Oikawa, et al.*, Dept. of Orthop. Surg., Saitama Children's Medical Center...S549
- 2-12-S43-5 Regarding pediatric fracture treatment to avoid leaving any regrets
 *Satoe Tanabe, et al.*, Dept. of Orthop. Surg., Showa Medical Univ. Koto Toyosu Hosp...S550

9 : 30 ~ 10 : 50	Symposium 44	Moderators H. Kitoh, K. Takikawa
Skeletal dysplasia: Problems at each life stage		

- 2-12-S44-1 Clinical and genetic diagnoses of skeletal dysplasia
 *Masaki Matsushita, et al.*, Dept. of Orthop./Rheumatology,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ...S551
- 2-12-S44-2 Diagnosis and treatment strategies for pediatric skeletal disorders:
 A multidisciplinary approach
 *Katsuaki Taira, et al.*, Dept. of Orthop. Surg., Saitama Children's Medical Center...S551
- 2-12-S44-3 Management of adult skeletal dysplasias: Current status and clinical issues
 *Sayumi Yabuki, et al.*, Dept. of Orthop.,
 Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled...S552
- 2-12-S44-4 Treatment of spinal lesions in skeletal disorders
 *Haruhisa Yanagida, et al.*, Dept. of Orthop. & Spine Surg., Fukuoka Children's Hosp...S552
- 2-12-S44-5 The experience of total hip arthroplasty in patients with skeletal dysplasia
 *Takeyuki Tanaka, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo...S553

11 : 05 ~ 12 : 05	Invited lecture 17 (English)	Moderator N. Haga
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- 2-12-IL17-1 Challenges in the limb surgery for skeletal dysplasia ... *Tae-Joon Cho*, Div. of Pediatric Orthop.,
 Seoul National Univ. Children's Hosp., Seoul, Korea/Dept. of Orthop. Surg.,
 Seoul National Univ. College of Medicine, Seoul, Korea...S554
- 2-12-IL17-2 Genetic research of skeletal dysplasia and its application to clinical practice in Japan
 *Shiro Ikegawa*, RIKEN, IMS...S554

12 : 35 ~ 13 : 45	Luncheon seminar 23	Moderator M. Ikeuchi
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- 2-12-LS23 Treatment of rotator cuff tears: History, evolution, and future perspective
 *Hiroyuki Sugaya*, Tokyo Sports & Orthop. Clinic...S555

14 : 00 ~ 15 : 20	Symposium 45	Moderators T. Nakagawa, E. Chosa
Latest updates on locomotive syndrome		

- 2-12-S45-1 Course and prognosis of locomotive syndrome: Findings from the ROAD study
 *Noriko Yoshimura, et al.*, Dept. of Preventive Medicine for Locomotive Organ Disorders,
 22nd Century Medical and Research Center, Graduate School of Medicine,
 The Univ. of Tokyo...S556
- 2-12-S45-2 Exercise and nutrition for preventing and improving locomotive syndrome, and
 future challenges *Hideaki Ishibashi*, Dept. of Orthop. Surg., Ina Hosp...S556
- 2-12-S45-3 Lower limb arthroplasty in relation to locomotive syndrome and frailty
 *Masahiko Ikeuchi*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ...S557
- 2-12-S45-4 Locomotive training to prevent transition into long-term care *Shigeki Miyata*, Miyata Clinic...S557

2-12-S45-5 Transition of patient acquisition strategies in orthopaedic clinics and their relationship with locomotive syndrome *Shinichi Wada*, Wada Orthop. Clinic...S558

15 : 35 ~ 16 : 35	Instructional lecture 26	Moderator K. Takikawa
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2-12-EL26 Endoscopic surgery for pediatric bone and joint disorders: For the restoration of bone growth and joint function *Takashi Saisu*, Chiba Child & Adult Orthop. Clinic...S559

16 : 50 ~ 18 : 10	Symposium 46	Moderators N. Yoshimura, H. Wakabayashi
Overcoming frailty and locomotive syndrome for healthy longevity		

2-12-S46-1 Epidemiological insights into frailty and locomotive syndrome: Current knowledge and future perspectives *Noriko Yoshimura, et al.*, Dept. of Preventive Medicine for Locomotive Organ Disorders, 22nd Century Medical and Research Center, Graduate School of Medicine, The Univ. of Tokyo...S560

2-12-S46-2 How to perceive and measure frailty *Shosuke Satake*, National Center for Geriatrics and Gerontology...S560

2-12-S46-3 Diagnosis and treatment of sarcopenia *Ken Sugimoto*, General Geriatric Medicine, Kawasaki Medical School...S561

2-12-S46-4 Moving two steps forward from locomotive syndrome as a countermeasure against physical frailty *Takashi Ohe*, NTT Medical Center Tokyo...S561

2nd Day May 22 Room 13

8 : 00 ~ 9 : 00	Free papers 39 Spine: Database	Moderators J. Takahashi, T. Doi
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2-13-1 Investigation of factors associated with mortality in older adults aged 75 years and older with osteoporotic vertebral fractures *Toshio Nakamae, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ...S562

2-13-2 Perioperative complications of multilevel versus single-level fusion surgery: A study using the Japanese Spinal Instrumentation Society-Database *Ryo Mizukoshi, et al.*, Database Committee of the Japanese Spinal Instrumentation Society...S562

2-13-3 Changes in age groups undergoing spinal surgery from 2014 to 2021: Based on NDB data *Kosei Nagata, et al.*, Dept. of Orthop. Surg., Saitama Medical Center, Saitama Medical Univ...S563

2-13-4 Emergency vs. elective admissions for vertebroplasty in osteoporotic vertebral fractures: A DPC database study *Ryuki Tahara, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo...S563

2-13-5 Current state of spinal instrumentation surgery in Japan: JSIS-DB report from 2018 to 2022 *Haruki Ueda, et al.*, Database Committee of the Japanese Spinal Instrumentation Society...S564

2-13-6 Association between propofol use and surgical site infections in spinal surgery *Kenta Takakura, et al.*, Dept. of Orthop. Surg., Gunma Univ. Graduate School of Medicine...S564

9 : 30 ~ 10 : 30	Free papers 40 Spine: Diagnosis	Moderators M. Doita, A. Higashikawa
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2-13-7 Differences in clinical characteristics between HLA-B27-positive and HLA-B27-negative patients with ankylosing spondylitis: Insights from the T-ASK study *Ryo Sato, et al.*, Dept. of Orthop. Surg., National Center for Geriatrics and Gerontology...S565

2-13-8 Characteristic imaging findings around the dural defect in superficial siderosis with spinal ventral fluid-filled collection in the spinal canal *Motonori Hashimoto, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo...S565

- 2-13-9 The influence of lower extremity joint degeneration on kinematic analysis of spastic gait
*Akitaka Yoshimura, et al.*, Dept. of Orthop. Surg., Fukuoka Univ. ...S566
- 2-13-10 Investigation of MRI-independent factors associated with neurological symptoms in patients with
 spinal metastases of lung cancer*Kazuhiro Fujimoto, et al.*, Dept. of Orthop. Surg.,
 Yamaguchi Univ. Graduate School of Medicine ...S566
- 2-13-11 Cerebrospinal fluid lysophosphatidylcholine levels are useful for differentiating myelopathy from
 cauda equina syndrome
*Takuya Takahashi, et al.*, Dept. of Orthop. Surg., Saiseikai Kawaguchi General Hosp. ...S567
- 2-13-12 Morning neurological symptoms in lumbar spinal stenosis
*Masayoshi Fukushima, et al.*, Spine Center, Toranomon Hosp. ...S567

11 : 05 ~ 12 : 05 Free papers 41 Tumor: Soft tissue sarcoma 2 Moderators K. Hayashi, K. Ikuta

- 2-13-13 The relationship between survival and postoperative infection in patients with soft tissue sarcoma:
 Data from a nationwide registry in Japan
*Jun Iwatsu, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation.,
 National Cancer Center Hosp. ...S568
- 2-13-14 Association between postoperative infection and survival in soft tissue sarcoma: International
 multicenter real world data analysis
*Hideki Nishimura, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S568
- 2-13-15 Association between neutrophil-to-lymphocyte ratio and psoas muscle index with prognosis of soft
 tissue sarcoma*Yutaka Nezu, et al.*, Musculoskeletal Science,
 Yokohama City Univ. Graduate School of Medicine ...S569
- 2-13-16 Can a non-contact thermometer predict the benign or malignant of soft tissue tumors?
*Toshio Kojima, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S569
- 2-13-17 Hypercoagulable states in patients with soft tissue sarcomas
 ...*Taketsugu Fujibuchi, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine ...S570
- 2-13-18 Risk factors for local control and surgical strategy in thigh soft tissue sarcomas with
 bone involvement*Fuminori Murase, et al.*, Dept. of Orthop./Rheumatology,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ. ...S570

12 : 35 ~ 13 : 45 Luncheon seminar 24 Moderator Y. Ishibashi

- 2-13-LS24 From the development to clinical application of a low-endotoxin alginate gel-based cartilage
 repair material*Norimasa Iwasaki*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S571

14 : 00 ~ 15 : 00 Free papers 42 Knee: Lower limb alignment Moderators M. Hasegawa, Y. Niki

- 2-13-19 Morphological analysis and AKO simulation for valgus knees in the Japanese population
*Kensaku Abe, et al.*, Dept. of Orthop. Surg.,
 Nagoya City Univ., Graduate School of Medical Sciences ...S572
- 2-13-20 Ultrasonographic medial meniscus extrusion and radiographic alignment as predictors of knee
 osteoarthritis: A five-year cohort study
*Naoya Ito, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S572
- 2-13-21 Optimal target alignment for medial meniscus posterior root tears: A biomechanical
 cadaveric study*Takaaki Hiranaka, et al.*, Dept. of Orthop. Surg.,
 Science of Functional Recovery and Reconstruction, Faculty of Medicine,
 Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S573

- 2-13-22 Clinical outcomes and radiological change after HTO vary depending on the combination of joint line obliquity and HKA by CPAK*Mitsuaki Kubota, et al.*, Dept. of Orthop., Juntendo Univ. ...S573
- 2-13-23 A longitudinal investigation into the universality of CPAK classification: A retrospective observational study with over 10 years follow-up*Hiroki Kishi, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp. ...S574
- 2-13-24 Longitudinal reduction of the medial proximal tibial angle: A 25-year cohort study*Yujiro Katayama, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S574

15 : 35 ~ 16 : 35	Afternoon seminar 4	Moderator M. Hirao
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- 2-13-AS4-1 Updated diagnosis and treatment of rheumatoid arthritis for general orthopaedic surgeons: Based on the latest clinical practice guidelines ...*Kosuke Ebina, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Osaka ...S575
- 2-13-AS4-2 Rheumatoid arthritis treatment essentials for general orthopaedic surgeons*Nobunori Takahashi*, Dept. of Orthop. Surg., Aichi Medical Univ. ...S575

16 : 50 ~ 17 : 50	Free papers 43	Moderators M. Takagi, T. Jinno
Hip joint: Evaluation of images		

- 2-13-25 Association between the anterior-shift sign and MRI findings in dysplastic hips: An evaluation using the SHOMRI score*Michio Morita, et al.*, Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ. ...S576
- 2-13-26 Relationship between hip bone morphology and anterior femoral offset in adult hips*Yosuke Kozuma, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S576
- 2-13-27 Three-dimensional relationship of the anterior acetabular wall and iliopsoas muscle: Normal hips vs. developmental dysplasia of the hip*Arata Kanaizumi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S577
- 2-13-28 Association of MRI-based gluteal fatty infiltration and muscle cross-sectional area with gait ability in patients with hip osteoarthritis*Gai Kobayashi, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S577
- 2-13-29 Association between acetabular coverage over femoral head and rate of joint space narrowing in non-arthritis hips*Toshiyuki Kawai*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. ...S578
- 2-13-30 Differences in pelvic morphology among different generations of hip joint disease*Soutarou Izumi, et al.*, Hiroshima Prefectural Rehabilitation Center ...S578