

The 58th Annual Musculoskeletal Tumor Meeting of the Japanese Orthopaedic Association

Held in Nara, July 17 and 18, 2025

On-demand sessions: August 1 to 31, 2025

Congress President, Kanya Honoki, MD, PhD

Department of Orthopedic Oncology and Reconstructive Medicine,
Nara Medical University

1st Day July 17 Room 1

8 : 00 ~ 9 : 40 Symposium 1

Moderators A. Matsumine, A. Kawai

Establishing a sustainable system for practice of bone and soft tissue tumor treatment

- 1-1-SY1-1 Past, present, and future of musculoskeletal oncology in Japan
.....*Akira Kawai*, Dept. of Musculoskeletal Oncology and Rehabilitation Medicine,
National Cancer Center Hosp.···S1309
- 1-1-SY1-2 Education and challenges for musculoskeletal tumor oncologists in core cancer hospitals
.....*Keisuke Ae, et al.*, The Cancer Institute Hosp. of JFCR···S1309
- 1-1-SY1-3 Building a system for the diagnosis and treatment of bone and soft tissue tumors at a core
university hospital*Makoto Endo, et al.*, Dept. of Orthop. Surg., Clinical Medicine,
Graduate School of Medical Sciences, Kyushu Univ.···S1310
- 1-1-SY1-4 Establishment of a treatment system for bone and soft tissue tumors in our region: Challenges
and countermeasures*Kensaku Yamaga, et al.*, Dept. of Orthop. Surg., Tottori Univ.···S1310
- 1-1-SY1-5 Issues in the treatment of bone and soft tissue tumors in areas with declining population and
aging population
.....*Hiroyuki Tsuchie, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S1311
- 1-1-SY1-6 Establishment of a sustainable system for the treatment of bone and soft tissue tumors:
Focusing on health insurance system
.....*Takeshi Morii, et al.*, Dept. of Orthop. Surg., Kyorin Univ.···S1311

10 : 00 ~ 11 : 00 Invited lecture 1

Moderator T. Yamaguchi

- 1-1-IL1 30 years of bone and soft tissue pathology. With current technology, are pathologists
still necessary?*Scott D. Nelson*, UCLA Santa Monica Orthop. Hosp., Santa Monica, CA, USA···S1312

11 : 25 ~ 12 : 25 Special lecture 1

Moderator H. Yoshikawa

- 1-1-SL1 Evolution and future prospect of basic research in sarcoma
.....*Junya Toguchida*, Center for iPS Cell Research and Application, Kyoto Univ.···S1312

12 : 40 ~ 13 : 40 Luncheon seminar 1

Moderator T. Yonemoto

- 1-1-LS1-1 Making mega-prosthesis accessible to orthopaedic surgeons: Role of conventional stems and
long-term survivor concerns
.....*Kunihiro Ikuta*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S1313

13 : 50 ~ 15 : 20	Symposium 2	Moderators Y. Matsumoto, T. Akiyama
Digital transformation and precision medicine in bone and soft tissue tumors		

- 1-1-SY2-1 Digital transformation in musculoskeletal oncology practice
*Joe Hasei, et al.*, Dept. of Medical Information and Assistive Technology Development,
 Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ...S1314
- 1-1-SY2-2 Can navigation-assisted tumor surgery contribute to the advancement of DX/
 personalized medicine?*Yuki Funauchi, et al.*, Dept. of Orthop. and Spinal Surg.,
 Graduate School of Medical and Dental Science, Institute of Science Tokyo...S1314
- 1-1-SY2-3 Current status of comprehensive genomic profiling for musculoskeletal sarcoma:
 An institutional study*Michiyuki Hakozaiki, et al.*, Higashi-Shirakawa Orthop. Academy,
 Fukushima Medical Univ...S1315
- 1-1-SY2-4 Spatial genomic analysis as the next step beyond cancer gene panel testing
*Yoshiyuki Suehara, et al.*, Div. of Cellular Signaling,
 National Cancer Center Research Institute...S1315
- 1-1-SY2-5 Multi-omics analysis on bone and soft-tissue sarcomas and their clinical application
*Makoto Hirata*, Dept. of Genetic Medicine and Services, National Cancer Center Hosp...S1316
- 1-1-SY2-6 Genomic analysis and personalized medicine for bone and soft tissue tumors
*Hiroshi Kobayashi*, Orthop. Surg., Sensory and Motor System Medicine,
 Surgical Sciences, Graduate School of Medicine, The Univ. of Tokyo...S1316

15 : 40 ~ 17 : 10	Panel discussion 1	Moderators T. Yonemoto, E. Kobayashi
Unmet needs of sarcoma patients in the AYA Generation: Strategies and challenges		

- 1-1-PD1-1 Unmet needs of adolescents and young adults with cancer-from
 an epidemiological perspective
*Kayo Nakata*, Dept. of Cancer Strategy, Cancer Control Center,
 Osaka International Cancer Institute...S1317
- 1-1-PD1-2 Support needed for AYA sarcoma patients to live their own lives
*Ako Hosono*, National Cancer Center Hosp. East...S1317
- 1-1-PD1-3 Unmet needs of adolescent and young adult (AYA) sarcoma patients:
 An orthopaedic perspective
*Tabu Gokita, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center...S1318
- 1-1-PD1-4 Characteristics of psychological and social issues in AYA generation sarcoma patients and tips
 on how to support*Keiko Shiraishi*, Kyushu Cancer Center...S1318
- 1-1-PD1-5 Expanding treatment possibilities: What I want to share based on my own experience
*Motono Kamei*, Lower leg soft tissue sarcoma survivor...S1319
- 1-1-PD1-6 A 20-year journey of 36-year-old osteosarcoma survivor: What I encountered and felt along
 the way*Shunsuke Nakanishi*, Osteosarcoma survivor...S1319

1st Day July 17 Room 2

8 : 00 ~ 9 : 00	Educational lecture 1	Moderator Y. Nishida
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- 1-2-EL1 Role of exercise for malignant bone and soft tissue tumors
*Koji Hiraoka*, Dept. of Orthop. Surg., Kurume Univ...S1320

9 : 05 ~ 10 : 05	Main program 1	Moderators S. Kakunaga, M. Emori
Treatment strategies for advanced soft tissue sarcoma		

- 1-2-MO1-1 Outcome in 53 patients treated with eribulin for soft tissue sarcoma: A single-institute retrospective study
..... *Yudai Murayama, et al.*, Div. of Musculoskeletal Oncology and Orthop. Surg., Tochigi Cancer Center...S1321
- 1-2-MO1-2 Clinical outcomes of chemotherapy for advanced non-round cell soft tissue sarcoma at our hospital *Hiroshi Urakawa, et al.*, Dept. of Advanced Medicine, Nagoya Univ. Hosp....S1321
- 1-2-MO1-3 Short-term clinical results after radiofrequency ablation (RFA) for metastases of bone and soft tissue sarcomas *Jungo Imanishi, et al.*, Dept. of Orthop. Surg., Teikyo Univ....S1322
- 1-2-MO1-4 Timing of chemotherapy initiation for alveolar soft part sarcoma of the extremities with pulmonary metastases
..... *Daichiro Takahara, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp....S1322
- 1-2-MO1-5 Efficacy of pazopanib for patients with multiple metastases of Ewing's sarcoma
..... *Shunji Nishimura, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine...S1323
- 1-2-MO1-6 Experience of using eribulin, trabectedin and pazopanib for advanced malignant soft tissue sarcoma *Yuya Izubuchi, et al.*, Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui...S1323

10 : 10 ~ 11 : 10	Educational lecture 2	Moderator A. Ogose
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- 1-2-EL2 Challenges and prospects for treatment development in Musculoskeletal oncology
..... *Robert Nakayama*, Dept. of Orthop. Surg., Keio Univ....S1324

12 : 40 ~ 13 : 40	Luncheon seminar 2	Moderator H. Kawano
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- 1-2-LS2-1 The inseparable relationship between phosphaturic mesenchymal tumor (PMT) and tumor-induced osteomalacia (TIO): Does surgical resection of PMT completely prevent TIO?
..... *Makoto Endo*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ....S1325
- 1-2-LS2-2 Tumor-induced osteomalacia: pitfalls and key points based on clinical experience
..... *Yoshihiro Nishida*, Dept. of Rehabilitation, Nagoya Univ. Hosp....S1325

13 : 50 ~ 14 : 50	Invited lecture 2	Moderator Y. Oda
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- 1-2-IL2 From the molecular pathology to the clinical practice in bone and soft tissue tumors
..... *Alberto Righi*, IRCCS Istituto Ortopedico Rizzoli, Bologna, Italy...S1326

15 : 00 ~ 16 : 05	Bone Tumor Club I	Moderators S. Yoshida, Y. Kikuchi
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- 1-2-BTC-1 Chest wall tumor *Chisachi Kubo, et al.*, Dept. of Surgical Pathology, Kyushu Rosai Hosp....S1327
- 1-2-BTC-2 A case of a soft tissue tumor with diverse histological features arising in the anterior aspect of the left thigh *Yoshiyuki Ayada, et al.*, Dept. of Pathology, Okayama Univ. Hosp....S1327
- 1-2-BTC-3 A case of hyalinizing epithelioid tumor with OGT::FOXO3 fusion
..... *Naohiro Makise, et al.*, Div. of Surgical Pathology, Chiba Cancer Center...S1328

16 : 05 ~ 17 : 10	Bone Tumor Club II	Moderators T. Tanaka, K. Washimi
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- 1-2-BTC-4 A case of a large soft tissue tumor of the lumbar region
..... *Naoki Kojima, et al.*, Dept. of Pathology, Saitama Cancer Center...S1328

- 1-2-BTC-5 A case of extra-axial chordoma with a dedifferentiated component in the recurrent tumor
 *Yoshiya Sugiura, et al.*, Dept. of Pathology,
 Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.···S1329
- 1-2-BTC-6 A case of pulmonary artery tumor
 *Yosuke Masumoto, et al.*, Dept. of Pathology Medicine, Kyushu Univ. Hosp.···S1329

17 : 20 ~ 19 : 20	Clinicopathologic conference	Moderators R. Fujimoto, T. Shirai, K. Kohashi
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- 1-2-CR1 A case of a calcaneal bone tumor with an adjacent intramuscular chondroid tumor
 *Yasutaka Murahashi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1330
- 1-2-CR2 Osteolytic lesion in the right iliac secondary to a right lumbar mass
 *Taisuke Matsuyama, et al.*, Dept. of Orthop. Surg., Teikyo Univ.···S1330
- 1-2-CR3 A case report of soft tissue tumor of RT. forearm
 *Kunihiko Numoto, et al.*, Dept. of Orthop. Surg., Kochi Health Sciences Center Hosp.···S1331
- 1-2-CR4 A case of poorly differentiated chordoma of the sacrum
 *Yoshinori Imura, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ.···S1331

1st Day July 17 Room 3

8 : 00 ~ 9 : 00	Educational lecture 3	Moderator E. Konishi
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- 1-3-EL3 New insights into the pathology of bone and soft tissue tumors
 *Kenichi Kohashi*, Dept. of Pathology, Graduate School of Medicine,
 Osaka Metropolitan Univ.···S1332

9 : 10 ~ 10 : 40	Symposium 3	Moderators T. Kondo, K. Horiuchi
Translational research in bone and soft tissue tumors for clinical application		

- 1-3-SY3-1 Current status and future perspectives of sarcoma research using patient-derived cancer models
 *Tadashi Kondo*, Div. of Rare Cancer Research, National Cancer Center Research Institute···S1333
- 1-3-SY3-2 Current status and challenges of patient-derived sarcoma models in translational research
 *Koichi Ogura, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation,
 National Cancer Center Hosp.···S1333
- 1-3-SY3-3 Modeling sarcoma of childhood and AYA generation to clarify disease mechanisms and to develop novel therapies
 *Miwa Tanaka*, Dept. of Cancer Epigenomics, The Cancer Institute···S1334
- 1-3-SY3-4 Introduction of Tochigi Cancer Biobank established with the aim of developing novel diagnostic and therapeutic methods for cancer
 *Kazutaka Kikuta*, Div. of Musculoskeletal Oncology and Orthop. Surg.,
 Tochigi Cancer Center···S1334
- 1-3-SY3-5 Chorioallantoic membrane model of musculoskeletal tumors: current status and prospects for the clinical application
 *Shunichi Toki, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center···S1335
- 1-3-SY3-6 Development of sarcoma organoid models and their application in novel treatments
 *Toru Wakamatsu, et al.*, Osaka International Cancer Institute···S1335

12 : 40 ~ 13 : 40	Luncheon seminar 3	Moderator A. Kido
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- 1-3-LS3-1 From primary care to palliative surgery against bone metastases: Passion pass on to the next generation who treat musculoskeletal disorders *Kazuya Oshima*, Osaka Keisatsu Hosp.···S1336

13 : 50 ~ 14 : 50	Educational lecture 4	Moderator S. Matsumoto
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- 1-3-EL4 AI diagnostic imaging support system for onco-orthopaedics
 *Shingo Sato*, Dept. of Palliative Care, Institute of Science Tokyo...S1337

15 : 00 ~ 16 : 40	Symposium 4	Moderators T. Takagi, K. Oshima
Palliative surgical treatment for spinal metastases: With multidisciplinary treatment		

- 1-3-SY4-1 Utilities of outpatient clinic for bone metastasis and those of alert system to detect spinal metastasis *Hideki Shigematsu, et al.*, Dept. of Orthop. Surg., Nara Medical Univ...S1338
- 1-3-SY4-2 The institutional multidisciplinary board for bone metastasis for the prevention of spinal cord injury caused by spinal metastasis *Takashi Hirai, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Science, Institute of Science Tokyo...S1338
- 1-3-SY4-3 The bone metastasis outpatient clinic and bone metastasis board based on the number of emergency surgeries for spinal metastases
 *Takeo Furuya, et al.*, Dept. of Orthop. Surg., Chiba Kaihin Municipal Hosp...S1339
- 1-3-SY4-4 Participation of orthopaedic surgeons in the treatment of spinal metastases at our hospital
 *Shurei Sugita, et al.*, Dept. of Orthop. Surg., Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp...S1339
- 1-3-SY4-5 Improving the efficiency of liaison treatment for metastatic bone tumors and indications for surgical treatment *Katsuhito Yoshioka, et al.*, Kanazawa Medical Center...S1340
- 1-3-SY4-6 Comprehensive management of spinal metastases: Active surgical intervention and the establishment of clinical systems in our hospital
 *Shunsuke Hamada, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center...S1340

1st Day July 17 Room 4

8 : 00 ~ 9 : 00	Main program 2	Moderators T. Yanagawa, T. Matsunobu
Advances in treatment techniques for bone and soft tissue tumors		

- 1-4-MO2-1 Application of extended reality to bone and soft tissue tumor surgery
 *Shintaro Iwata, et al.*, National Cancer Center Hosp...S1341
- 1-4-MO2-2 Multidisciplinary treatment with hyperthermia for myxoid liposarcoma
 *Hiroaki Kimura, et al.*, Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences...S1341
- 1-4-MO2-3 Experience with low-power ultrasound pulses (LIPUS) after the resection of bone and soft tissue tumors *Toshiyuki Takemori, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp...S1342
- 1-4-MO2-4 Trans-iliac direct lateral approach for lateral sacral aggressive tumors
 *Hirohisa Katagiri, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1342
- 1-4-MO2-5 Use of the superficial circumflex iliac artery perforator flap for reconstruction after sarcoma resection *Ryo Karakawa, et al.*, Dept. of Plastic and Reconstructive Surg., The Cancer Institute Hosp. of JFCR...S1343
- 1-4-MO2-6 Predictive factors for bleeding and surgical time in malignant soft tissue tumors without any reconstructions *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1343

9 : 05 ~ 10 : 05	Main program 3	Moderators H. Sugiura, H. Murata
Treatment strategies for refractory benign and intermediate malignant bone and soft tissue tumors		

- 1-4-MO3-1 Report on two cases of multiple glomus tumors in the unilateral lower extremity
..... *Yutaro Ishikawa, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1344
- 1-4-MO3-2 Three cases of high amputation for giant congenital vascular malformations in the
lower limbs *Masato Fumoto, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1344
- 1-4-MO3-3 Local injection of triamcinolone acetone can be effective for plantar fibromatosis
..... *Yusaku Yasuyama, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1345
- 1-4-MO3-4 Usefulness of bone cement in operation for giant cell tumor of bone
..... *Masami Hosaka, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center ...S1345
- 1-4-MO3-5★ 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. ...S1346
- 1-4-MO3-6 Long-term use of denosumab for recurrent giant cell tumor of bone
..... *Akira Yoshiyama, et al.*, Dept. of Orthop. Surg., Tokyo Medical Center ...S1346

10 : 10 ~ 11 : 10	Main program 4	Moderators I. Baba, U. Anazawa
Future perspectives on bone metastasis treatment - Part 1: Spinal metastases		

- 1-4-MO4-1 Impact of specialized outpatient clinic on bone metastasis on patients with spinal metastases
and spine surgeons
..... *Hiroyuki Tsuchie, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine ...S1347
- 1-4-MO4-2 Is surgical treatment of elderly patients with metastatic spinal tumors not recommended?
..... *Kengo Arima, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1347
- 1-4-MO4-3 Difference in associated factors for complications in spinal metastasis surgery
..... *Kazuto Miura, et al.*, Nagaoka Red Cross Hosp. ...S1348
- 1-4-MO4-4 Clinical outcomes after posterior spinal fixation surgery for metastatic spinal tumors
..... *Masato Yoshimoto, et al.*, Kyushu Rosai Hosp. ...S1348
- 1-4-MO4-5★ Prediction of pathological fractures in spinal metastases of lung cancer using FDG-PET
..... *Kosuke Takeda, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S1349
- 1-4-MO4-6 Immunonutritional status and prognostic scores for early mortality cases in the metastatic
spinal tumor patients *Ukei Anazawa, et al.*, Dept. of Orthop. Surg.,
Tokyo Dental College Ichikawa General Hosp. ...S1349

12 : 40 ~ 13 : 40	Luncheon seminar 4	Moderator A. Kawai
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- 1-4-LS4-1 Treatment strategy for malignant bone and soft tissue tumors: As the only facility in the
prefecture that can treat bone and soft tissue tumors
..... *Kazutaka Kikuta*, Div. of Musculoskeletal Oncol. and Orthop., Tochigi Cancaer Center ...S1350

13 : 50 ~ 14 : 50	Educational lecture 5	Moderator H. Katagiri
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- 1-4-EL5 Update supportive/palliative care and psycho-oncology, how to treat AYA patients
..... *Hiromichi Matsuoka*, National Cancer Center Hosp. ...S1351

15 : 00 ~ 16 : 00	Educational lecture 6	Moderator T. Ueda
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- 1-4-EL6 Application of 3D preoperative planning and surgical support devices, including Mixed Reality,
in bone tumor surgery
..... *Satoshi Takenaka*, Dept. of Orthop. Surg., Osaka International Cancer Institute ...S1351

16 : 10 ~ 17 : 10	Afternoon seminar 1	Moderator Y. Nishida
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- 1-4-AS1-1 Low alkaline phosphatase is useful for diagnosis of hypophosphatasia for adulthood
Hiroaki Murata, Dept. of Orthop. Surg., Matsushita Memorial Hosp.···S1352

1st Day July 17 Room 5

8 : 00 ~ 9 : 00	Free paper 1	Moderators K. Ogura, T. Fujiwara
Epidemiology, statistics, and registry		

- 1-5-FP1-1 Identification of prognostic factors in cancer osteoporosis outpatients using statistical and AI analyses
Hiroataka Koyanagi, et al., Dept. of Rehabilitation Medicine, Saitama Cancer Center···S1353
- 1-5-FP1-2 Questionnaire survey of multiple osteochondromatosis treatment in JOA certified facilities
Masayuki Morishita, et al., Dept. of Orthop. Surg., Kobe Children's Hosp.···S1353
- 1-5-FP1-3 High incidence of Ewing sarcoma in Okinawa: Exploring regional specificity through whole-genome analysis
Yoshiro Yoshikawa, Dept. of Orthop. Surg., Univ. of the Ryukyus Hosp.···S1354
- 1-5-FP1-4 Osteosarcoma in Japan: Report from the Bone and Soft Tissue Tumor Registry 2006-2022
Koichi Ogura, et al., Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp.···S1354
- 1-5-FP1-5 Annual incidence of malignant bone and soft tissue tumors in the AYA generation
Masatake Matsuoka, et al., Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1355
- 1-5-FP1-6 A study on factors influencing the resumption of systemic treatment after surgery in patients with metastatic femur
Sanehiro Ando, et al., Dept. of Orthop. Surg., Japanese Red Cross Musashino Hosp.···S1355
- 1-5-FP1-7 Factors associated with postoperative local recurrence of soft tissue sarcoma of the extremities and trunkYusuke Yoshimura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ.···S1356
- 1-5-FP1-8 Epidemiological survey of extraskeletal myxoid chondrosarcoma: Data from the Soft Tissue Tumor Registry of Japan
Akihito Nagano, et al., Dept. of Orthop. Surg., Div. of Disease Control, Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ.···S1356
- 1-5-FP1-9 Comparison of clinical features in patients with angiosarcoma of bone and soft tissue: A SEER database studyYuta Kamo, et al., Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1357
- 1-5-FP1-10 Comparison study of spinal metastasis and osteoporotic vertebral fractures after vertebroplasty using DPC databaseGo Uesugi, et al., Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo···S1357

9 : 05 ~ 10 : 05	Free paper 2 Radiation therapy	Moderators T. Hiruma, Y. Demizu
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- 1-5-FP2-1 Comparison of histological response among Ewing sarcoma treated with chemotherapy with/without preoperative radiotherapy
Hisaki Aiba, et al., Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences···S1358
- 1-5-FP2-2 Efficacy of adjuvant radiotherapy in elderly soft tissue sarcoma: Assessing low-invasive surgery with reduced margins
Junji Wasa, et al., Div. of Orthop. Oncology, Shizuoka Cancer Center···S1358

1-5-FP2-3	Treatment effectiveness in a case of proximal humeral chondrosarcoma treated with sealed radiation source therapy ······ <i>Keiichi Akahori, et al.</i> , Dept. of Orthop. Surg., Tottori Univ.···S1359
1-5-FP2-4	Stereotactic body radiotherapy with focal boost for spinal oligo-metastasis ····· <i>Masateru Fujiwara, et al.</i> , Dept. of Radiotherapy, Suita Tokushukai Hosp.···S1359
1-5-FP2-5	The significance of postoperative adjuvant radiotherapy for soft tissue sarcoma ····· <i>Takashi Ariizumi, et al.</i> , Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences···S1360
1-5-FP2-6	Preoperative radiotherapy combined with chemotherapy is a potential option for non-round-cell soft tissue sarcomas ··· <i>Kenji Sato, et al.</i> , Dept. of Orthop. Surg., Teikyo Univ.···S1360
1-5-FP2-7	Efficacy of SBRT for the primary site in <i>CIC</i> -rearranged sarcoma with pulmonary metastases: A case report ··· <i>Shintaro Yokoyama, et al.</i> , Dept. of Musculoskeletal Oncology, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.···S1361
1-5-FP2-8	Selective perioperative radiation therapy for soft tissue sarcoma patients ····· <i>Toshihiko Nishisho, et al.</i> , Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1361
1-5-FP2-9	A case of implantation of an absorbable spacer by retroperitoneal approach for unresectable retroperitoneal angiosarcoma ······ <i>Hiromi Sasaki, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.···S1362
1-5-FP2-10	The treatment outcomes and complications of carbon ion therapy ····· <i>Hirokazu Ideta, et al.</i> , Dept. of Orthop. Surg., Shinshu Univ.···S1362

10 : 10 ~ 11 : 10 Free paper 3
Pathological diagnosis · others

Moderators H. Nakajima, H. Nagasawa

1-5-FP3-1★	Predictors of early metastasis in soft tissue sarcoma using nutritional markers ····· <i>Tomotaka Yoshida, et al.</i> , Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine···S1363
1-5-FP3-2	Testing for circulating tumor cells in bone and soft tissue malignant tumors ····· <i>Yuta Nishizawa, et al.</i> , CELLCLOUD···S1363
1-5-FP3-3	Comparative accuracy of eight prognostic scoring systems in untreated patients with spinal metastases ····· <i>Shuhei Ohyama, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.···S1364
1-5-FP3-4	A case of extraskeletal myxoid chondrosarcoma with positive myoepithelial markers ····· <i>Hakubun Kyo, et al.</i> , Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1364
1-5-FP3-5	Clinical outcomes and pathology of chordoma ····· <i>Yukiko Komatsu, et al.</i> , Dept. of Orthop. Surg., Shinshu Univ.···S1365
1-5-FP3-6	Validation of prognostic accuracy of the revised Katagiri score and PATHFx 3.0 in metastatic femoral bone tumors ······ <i>Tatsuro Saruga, et al.</i> , Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine···S1365
1-5-FP3-7	Prediction of femoral bone strength in the presence of tumors and tumor-like lesions using finite element analysis ······ <i>Tadashi Iwai, et al.</i> , Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine···S1366
1-5-FP3-8	Cases of bone and soft tissue tumors required pathological consultation in our department ····· <i>Tomohito Hagi, et al.</i> , Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine···S1366
1-5-FP3-9	A difficult to diagnose case of angiomatoid fibrous histiocytoma ····· <i>Ryo Nishida, et al.</i> , Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine···S1367

- 1-5-FP3-10 Three cases of bone and soft tissue tumors diagnosed as benign by biopsy but treated as malignant
*Akio Sakamoto, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ.··S1367

13 : 50 ~ 14 : 50	Main program 5	Moderators I. Fujita, T. Morii
Management of refractory infections after bone and soft tissue tumor surgery		

- 1-5-MO5-1 Is surgical drainage necessary after mega prosthesis surgery? A study based on JOA guidelines for infection control
*Ikuo Fujita, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center··S1368
- 1-5-MO5-2 Risk factors and local high-concentration antibial infusion therapy for megaprosthesis infection*Taketsugu Fujibuchi, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine··S1368
- 1-5-MO5-3 CLAP for late postoperative infection of malignant bone and soft tissue tumors
*Takashi Tajima, et al.*, Dept. of Orthop. Surg., Kyorin Univ.··S1369
- 1-5-MO5-4 Study of cases of infection with a malignant soft tissue tumour
*Keiko Hayakawa, et al.*, Dept. of Orthop. Oncology, Surg., The Cancer Institute Hosp. of JFCR··S1369
- 1-5-MO5-5 Continuous local antibiotic perfusion (CLAP) for infection after surgery for bone tumor
*Akira Nomura, et al.*, Dept. of Orthop. Surg., Surgical Science, Tokai Univ.··S1370
- 1-5-MO5-6 Analysis of the relationship between osteosarcoma survival and postoperative infection
*Satoshi Kamio, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp.··S1370

15 : 00 ~ 16 : 00	Free paper 4 Basic research	Moderators S. Nagano, R. Nakayama
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- 1-5-FP4-1★ Molecular genetics of Myxoepithelioid tumor with chordoid features (METC)
*Chiaki Sato, et al.*, Dept. of Anatomic Pathology, Pathological Sciences, Graduate School of Medical Sciences, Kyushu Univ.··S1371
- 1-5-FP4-2 CART cell therapy for synovial sarcoma targeting ligands for activating receptor of natural killer cell*Tomohiro Miyazaki, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences··S1371
- 1-5-FP4-3★ Redox regulatory mechanisms in tumor progression of synovial sarcoma
*Hideyuki Kinoshita, et al.*, Chiba Cancer Center··S1372
- 1-5-FP4-4★ Spatial genomic analysis of giant cell tumor of bone
*Yo Kimura, et al.*, Div. of Cellular Signaling, National Cancer Center Research Institute··S1372
- 1-5-FP4-5 Exploration of COL6A1 function in Ewing sarcoma: association with slow-cycling cell characteristics
 ...*Yuta Nakamatsu, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine··S1373
- 1-5-FP4-6 Whole-genome and transcriptome analysis of dermatofibrosarcoma protuberans
*Toshihide Hirai, et al.*, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.··S1373
- 1-5-FP4-7 Abscopal effect for bone and soft tissue sarcomas
*Kenta Nakata, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine··S1374
- 1-5-FP4-8 Spatial transcriptomic analysis of osteosarcoma
*Yo Kimura, et al.*, Div. of Cellular Signaling, National Cancer Center Research Institute··S1374
- 1-5-FP4-9 Development of a novel drug therapy targeting glutamine metabolism in synovial sarcoma
*Duc Thanh Tran, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine··S1375

- 1-P3-2★ The utility of various parameters of FDG-PET/CT in evaluating chemotherapeutic effectiveness in malignant bone tumors
*Atsushi Mihara, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine...S1383
- 1-P3-3 A case of dedifferentiated liposarcoma presenting super bone scan with 18F-FDG PET
*Makoto Ieguchi, et al.*, Izumiotsu Medical Center...S1384
- 1-P3-4 PET/CT is useful for diagnosis of bone metastasis progression with sclerotic lesions post-treatment in breast cancer*Yasuhiro Nakamura, et al.*, Dept. of Orthop., Juntendo Univ...S1384
- 1-P3-5 A trial of 3D reconstruction from MRI images in extremity soft tissue sarcoma
*Akira Takazawa, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1385
- 1-P3-6 A case of intramuscular Baker cyst mimicking soft tissue tumors
*Hiroyuki Takeuchi, et al.*, Hanwa Memorial Hosp...S1385

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15 : 00 ~ 15 : 25	Poster 4 Pathological diagnosis, others 1	Moderator Y. Tome
1-P4-1	A case of extraskeltal myxoid chondrosarcoma with revised pathological diagnosis after multi-gene cancer panel testing <i>Ryosuke Nishi, et al.</i> , Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...S1386	
1-P4-2	Four elderly cases of myxofibrosarcoma previously treated with unplanned excision <i>Kenichiro Uchimura, et al.</i> , Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ...S1386	
1-P4-3	A case of high grade myxofibrosarcoma with suspected Pleomorphic hyalinizing angiectatic tumor <i>Kaede Noguchi, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ...S1387	
1-P4-4	5 cases of glomus tumor occurred in without extremity <i>Kozo Hosono, et al.</i> , Dept. of Orthop. Surg. and Oncology, Okazaki City Hosp...S1387	
1-P4-5	Two soft tissue tumor cases, who diagnosed hemangioma preoperatively, but different pathological diagnoses made <i>Masato Tomita, et al.</i> , Dept. of Orthop. Surg., Nagasaki Harbor Medical Center...S1388	

15 : 25 ~ 16 : 00	Poster 5 Surgical treatment 1	Moderator A. Sakamoto
1-P5-1★	Postoperative outcomes for infiltrative soft tissue sarcoma of the limbs and trunk <i>Ryota Yamauchi, et al.</i> , Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S1389	
1-P5-2	Clinical outcomes of the retroperitoneal sarcoma <i>Yusuke Kaneko, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ...S1389	
1-P5-3	Preoperative evaluation of complicated resected organs in retroperitoneal sarcoma <i>Akira Shiga, et al.</i> , Dept. of Musculoskeletal Tumor Surg., Kanagawa Cancer Center...S1390	
1-P5-4	Two cases of femoral tumor diagnosed and treated using a drill for intramedullary nail fixation <i>Natsuhiko Takata, et al.</i> , Kawaguchi Municipal Medical Center...S1390	
1-P5-5	A case of posterior tibial tendon tear caused by multiple osteochondromas <i>Kentaro Iwata, et al.</i> , Dept. of Orthop. Surg., Sapporo Medical Univ...S1391	
1-P5-6	A case of osteosarcoma of metatarsal bone <i>Haru Masuko, et al.</i> , Dept. of Orthop. Surg., Surgical Science, Tokai Univ...S1391	
1-P5-7	Factors associated with local recurrence of giant cell tumor of bone <i>Junya Shimizu, et al.</i> , Dept. of Orthop. Surg., Sapporo Medical Univ...S1392	

16 : 00 ~ 16 : 30	Poster 6 Surgical treatment 2	Moderator M. Hatori
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- 1-P6-1 Four cases with custom-made tumor knee prosthesis lasted over 30 years
..... *Seiichi Matsumoto, et al.*, Dept. of Orthop. Oncology, Surg.,
The Cancer Institute Hosp. of JFCR...S1393
- 1-P6-2 Comparison of surgical treatments for metastatic bone tumors in the proximal femur
..... *Teruhiko Ando, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and
Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ...S1393
- 1-P6-3 Do patients with infiltrative soft tissue sarcoma who received additional wide excision have
a poor prognosis? *Seiji Shimomura, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation,
National Cancer Center Hosp...S1394
- 1-P6-4 Clinical outcomes in elderly patients with dedifferentiated liposarcoma
..... *Hideki Nishimura, et al.*, Dept. of Orthop. Surg., Kagawa Univ...S1394
- 1-P6-5 Treatment of chondrosarcoma diagnosed on pathological fracture
..... *Tetsuya Hamada, et al.*, Dept. of Orthop. Surg., Kurume Univ...S1395
- 1-P6-6 Lipomatosis of nerve arising in the digital nerve, a case report
..... *Takeo Katsumori, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center...S1395

1st Day July 17 Poster Room 3

15 : 00 ~ 15 : 35	Poster 7 Case reports 1	Moderator H. Hatano
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- 1-P7-1 A case of sarcoidosis diagnosed from a calcaneal lesion
..... *Sho Nakao, et al.*, Dept. of Orthop. Surg., Keio Univ...S1396
- 1-P7-2 A case of sacral osteomyelitis after two-time carbon ion radiotherapy for sacral chordoma
..... *Yu Sugiyama, et al.*, Dept. of Orthop. Surg., Keio Univ...S1396
- 1-P7-3 A case of painful extragastrointestinal stromal tumor derived from the vastus intermedius muscle
..... *Kosei Ando, et al.*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science...S1397
- 1-P7-4 A case of talar leiomyosarcoma requiring differentiation due to similar imaging findings and
course to benign disease *Takashi Higuchi, et al.*, Kanazawa Red Cross Hosp...S1397
- 1-P7-5 A case of myxoma occurring in the hand
..... *Waka Handa, et al.*, The Cancer Institute Hosp. of JFCR...S1398
- 1-P7-6 The case of leiomyosarcoma of the lateral knee that was difficult to treat
..... *Tetsuo Shimoyama, et al.*, Dept. of Orthop. Surg., Fujita Health Univ...S1398
- 1-P7-7 Two cases of synovial chondromatosis of the finger joints
..... *Ryusuke Hasegawa, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ...S1399

15 : 35 ~ 16 : 05	Poster 8 Case reports 2	Moderator S. Yamamoto
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- 1-P8-1 A case of NTRK fusion gene-positive sarcoma treated with pembrolizumab
..... *Yuta Kubota, et al.*, Dept. of Orthop. Surg., Oita Univ...S1400
- 1-P8-2 A case of a novel technique for obtaining tissue samples in percutaneous biopsy of spinal tumours
in children *Tasuku Ino, et al.*, Dept. of Orthop. Surg., Saga Univ...S1400
- 1-P8-3 A 79-year-old male with Rosai-Dorfman syndrome
..... *Chigusa Sawamura, et al.*, Dept. of Orthop. Saitama Cancer Center...S1401
- 1-P8-4 A case of enucleation surgery preserving motor and sensory nerves for a schwannoma derived
from the ulnar nerve *Tomoki Terada, et al.*, Dept. of Musculoskeletal Surg.,
Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1401
- 1-P8-5 Index finger lipoma caused by blunt trauma: Is it real?
..... *Yasunori Taniguchi, et al.*, Dept. of Orthop. Surg., Kishigawa Rehabilitation Hosp...S1402

- 1-P8-6 Case report: Inflammatory undifferentiated pleomorphic sarcoma treated with radiotherapy
*Reina Kaneko, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,
 Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.··S1402

16 : 05 ~ 16 : 30 Poster 9

Moderator H. Futani

Other new treatments, rehabilitation, function, quality of life, and others 1

- 1-P9-1 Analysis of factors influencing prognosis in patients with soft tissue sarcoma who underwent
 unplanned excision
*Hiroyuki Tsuchie, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine··S1403
- 1-P9-2 Clinical features and prognosis of pediatric Langerhans cell histiocytosis
*Teruki Kidani, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine··S1403
- 1-P9-3 Cancer therapy-induced osteopenia and compression fractures: Clinical features and challenges in
 osteoporosis management
*Daiki Taruta, et al.*, Dept. of Orthop. Surg., Shinshu Ueda Medical Center··S1404
- 1-P9-4 Postoperative outcomes after bipolar hip arthroplasty for tumors in terms of functional prognosis
*Kazuki Nagao, et al.*, Saitama Medical Center, Jichi Medical Univ.··S1404
- 1-P9-5 Short- and mid-term results of GMRS lower limb reconstruction system performed at our hospital
*Tomohiko Sakuda, et al.*, The Cancer Institute Hosp. of JFCR··S1405

2nd Day July 18 Room 1

8 : 20 ~ 9 : 50 Symposium 5

Moderators T. Kunisada, S. Tsukushi

The present and future perspective of limb-sparing surgery

- 2-1-SY5-1 Joint preservation surgery using artificial joints
*Eiji Nakata, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and
 Reconstruction, Faculty of Medicine, Dentistry, and
 Pharmaceutical Sciences, Okayama Univ.··S1406
- 2-1-SY5-2 Use of intraoperative radiotherapy in malignant bone and soft tissue tumors
*Kunihiro Asanuma, et al.*, Orthop. Surg., Matusaka Chuo General Hosp.··S1406
- 2-1-SY5-3 Reconstruction with frozen autograft: Now & beyond
*Katsuhiro Hayashi, et al.*, Dept. of Orthop. Surg., Kanazawa Univ. Hosp.··S1407
- 2-1-SY5-4 Vascularized tissue transfer for tissue defects following wide tumor resection
*Hideo Hasegawa, et al.*, Dept. of Orthop. Surg., Nara Medical Univ.··S1407
- 2-1-SY5-5 Impact of technological advancements on short-term outcomes in flap reconstruction after soft
 tissue sarcoma resection*Ryo Karakawa, et al.*, Dept. of Plastic and Reconstructive Surg.,
 The Cancer Institute Hosp. of JFCR··S1408
- 2-1-SY5-6 Pasteurized bone and vascularized periosteal graft for bone defect after resection of bone and
 soft tissue tumors*Taisuke Furuta, et al.*, Dept. of Orthop. Surg., Hiroshima Univ. Hosp.··S1408

10 : 00 ~ 11 : 30 Panel discussion 2

Moderators H. Morioka, H. Hara

Well-being of orthopedic oncologists: Work styles and career development

- 2-1-PD2-1 Initiatives of the system reform committee, Japanese Orthopaedic Association
*Hitomi Hara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine··S1409
- 2-1-PD2-2 Well-being of orthopaedic oncologists: Work style and career development: An orthopaedic
 oncologist engaging in work style reform as the chief manager of the Tokushima University
 Orthopedic Group
*Toshihiko Nishisho, et al.*, Dept. of Orthop., Institute of Biomedical Sciences,
 Tokushima Univ. Graduate School··S1409

- 2-1-PD2-3 The diverse paths to becoming a musculoskeletal oncologist, which make you unique and valuable
 ... *Sayaka Yamaguchi*, Dept. of Advanced Therapy for Musculoskeletal Disorders, Keio Univ. ...S1410
- 2-1-PD2-4 Challenges and initiatives in setting up a bone and soft tissue oncology practice
 *Yu Toda, et al.*, Dept. of Orthop. Surg., Saga Univ. ...S1410
- 2-1-PD2-5 Career shift from physiatrist to orthopaedic oncologist
 *Ryoko Sawada, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1411
- 2-1-PD2-6 Well-being and career development of young specialists in bone and soft tissue tumors
 *Rie Suzuki, et al.*, Osaka International Cancer Institute ...S1411

11 : 50 ~ 12 : 50	Special lecture 2	Moderator H. Tsuchiya
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- 2-1-SL2 Our challenges in the diagnosis and treatment of bone and soft tissue sarcomas
 *Toshifumi Ozaki*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S1412

13 : 10 ~ 14 : 10	Luncheon seminar 5 Neurofibromatosis type 1	Moderator Y. Matsumoto
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- 2-1-LS5-1 Management of NF1 complications and PN: Optimizing surgical indications and pharmacotherapy *Robert Nakayama*, Dept. of Orthop. Surg., Keio Univ. ...S1412

14 : 20 ~ 16 : 05	Symposium 6	Moderators T. Akisue, R. Imai
Treatment strategies for unresectable bone and soft tissue tumors		

- 2-1-SY6-1 Role of interventional radiology in treating pelvic tumors
 *Hidetatsu Otani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ. ...S1413
- 2-1-SY6-2 Lung radiofrequency ablation for metastasis from malignant musculoskeletal tumors
 *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S1413
- 2-1-SY6-3 Boron neutron capture therapy (BNCT) for bone and soft tissue tumors
 *Takuya Fujimoto*, Dept. of Orthop. Surg., Hyogo Cancer Center ...S1414
- 2-1-SY6-4 Proton beam therapy for bone and soft tissue sarcomas: indications and limitations
 *Yusuke Demizu*, Dept. of Radiation Oncology, Kobe Proton Center ...S1414
- 2-1-SY6-5 Indications and challenges of carbon ion radiation therapy (CIRT) for bone and soft tissue sarcomas *Yuki Funauchi, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo ...S1415
- 2-1-SY6-6 Carbon ion radiotherapy for retroperitoneal sarcoma: A single-institution study
 *Reiko Imai, et al.*, QST Hosp. ...S1415
- 2-1-SY6-7 Treatment policy of retroperitoneal sarcoma doctors in Japan: Result from post-publication survey of guidelines *Shintaro Iwata*, National Cancer Center Hosp. ...S1416

2nd Day July 18 Room 2

8 : 20 ~ 9 : 20	Invited lecture 3	Moderator F. Nakatani
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- 2-2-IL3 Surgical treatment of children with bone sarcomas of the extremities
 *Costantino Errani*, Orthop. Service, Musculoskeletal Oncology Dept., Istituto Ortopedico Rizzoli, Bologna, Italy ...S1417

9 : 30 ~ 10 : 30	Main program 6	Moderators Y. Kitagawa, N. Yamamoto
Innovative approaches and clinical outcomes in the treatment of unresectable cases		

- 2-2-MO6-1 Intra-arterial chemotherapy with concomitant radiation therapy for unresectable malignant musculoskeletal neoplasm
..... *Shunichi Toki, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1418
- 2-2-MO6-2 The usefulness and problems of chemoradiotherapy aimed at curing of high-grade soft tissue sarcoma *Shusa Ohshika, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S1418
- 2-2-MO6-3 Short-term clinical results of multi-disciplinary treatment for dedifferentiated liposarcomas: A case series *Jungo Imanishi, et al.*, Dept. of Orthop. Surg., Teikyo Univ...S1419
- 2-2-MO6-4 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...S1419
- 2-2-MO6-5 Research about inadequate radical resection for malignant spinal and pelvic bone sarcoma *Akira Iwata, et al.*, Dept. of Musculoskeletal Oncology, NHO Hokkaido Cancer Center...S1420
- 2-2-MO6-6 Strategies for metastatic pelvic acetabular tumors: The importance of minimal rest restrictions
..... *Yasuhiro Shiga, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ...S1420

10 : 40 ~ 11 : 40	Invited lecture 4	Moderator S. Iwata
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- 2-2-IL4 The road winds on: Aldehyde dehydrogenase (ALDH) in osteosarcoma metastatic potential and disulfiram in the treatment of osteosarcoma pulmonary metastases
..... *Kurt Richard Weiss*, Univ. of Pittsburgh Dept. of Orthop. Surg. and UPMC Hillman Cancer Center, Pittsburgh, PA, USA...S1421

13 : 10 ~ 14 : 10	Luncheon seminar 6	Moderator M. Takeyama
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- 2-2-LS6-1 Current status and challenges of tumor prostheses: Preparation and strategies for revision surgery
..... *Hidetatsu Otani*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ...S1422

14 : 20 ~ 15 : 20	Invited lecture 5	Moderator T. Kunisada
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- 2-2-IL5 Allograft reconstruction following the segmental resection of malignant bone tumors in the long bones *Kap Jung Kim*, Dept. of Orthop. Surg., College of Medicine, Eulji Univ., Daejeon, Republic of Korea...S1423

15 : 30 ~ 16 : 30	Main program 7	Moderators S. Sugihara, M. Hakozaiki
Multidisciplinary and community-based collaborative care in bone and soft tissue tumors		

- 2-2-MO7-1 Education of bone and soft tissue oncologists and practice collaboration system
..... *Eisuke Kobayashi, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp...S1424
- 2-2-MO7-2 Characteristics and role of bone and soft tissue tumor clinics in community hospitals
..... *Eisuke Arai, et al.*, Dept. of Orthop. Surg. and Oncology, Okazaki City Hosp...S1424
- 2-2-MO7-3 Terminal events in cases of tumor death due to bone and soft tissue tumors
..... *Kumiko Yotsuya, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S1425
- 2-2-MO7-4 Introduction of online clinic system in the management of bone and soft-tissue tumors
..... *Tomohiro Fujiwara, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ...S1425

- 2-2-MO7-5 Grade-specific cancer education for school
*Kaoru Aoki, et al.*, Dept. of Applied Physical Therapy,
 Shinshu Univ. School of Health Sciences...S1426
- 2-2-MO7-6 A study of the causes of delays in patients with soft tissue sarcoma presenting to
 specialty facility*Kensaku Yamaga, et al.*, Dept. of Orthop. Surg., Tottori Univ....S1426

16 : 40 ~ 18 : 10	Symposium 7	Moderators K. Tanaka, H. Kawashima
Exploration of novel treatments for osteosarcoma		

- 2-2-SY7-1 Clinical outcomes of osteosarcoma with lung metastasis thorough the classification by
 chronological order*Kazuha Nakabachi, et al.*, Hokkaido Cancer Center...S1427
- 2-2-SY7-2 Research and development of gene therapy for osteosarcoma
*Satoshi Nagano, et al.*, Dept. of Physical Therapy, School of Health Sciences,
 Faculty of Medicine, Kagoshima Univ....S1427
- 2-2-SY7-3 Development of novel therapeutic approach targeting tumor microenvironment
 of osteosarcoma*Tomohiro Fujiwara, et al.*, Dept. of Orthop. Surg.,
 Science of Functional Recovery and Reconstruction, Faculty of Medicine,
 Dentistry, and Pharmaceutical Sciences, Okayama Univ....S1428
- 2-2-SY7-4 Establishment of molecular targeted therapeutic approach for osteosarcoma and
 its microenvironment ...*Akihiro Yoneda*, Center of Exp. Anim. Sci. IAMR, Nara Medical Univ....S1428
- 2-2-SY7-5 Radiodynamic therapy using 5-aminolevulinic acid may be effective in bone and soft
 tissue sarcoma*Yuki Tanemura, et al.*, Dept. of Orthop. Surg., Mie Univ. Hosp....S1429
- 2-2-SY7-6 INTER-EWING-1: International clinical trial for newly diagnosed Ewing sarcoma
*Shintaro Iwata, et al.*, National Cancer Center Hosp....S1429

2nd Day July 18 Room 3

7 : 15 ~ 8 : 15	Morning seminar 1	Moderator T. Ozaki
Potential and future prospect in cotton-shaped artificial bone for bone tumor surgery		

- 2-3-MS1-1 Clinical potentials in cotton-shaped artificial bone
*Eisuke Kobayashi*, Dept. of Musculoskeletal Oncol. Rehabilitation,
 National Cancer Center Hosp....S1430
- 2-3-MS1-2 Surgical tips for enhancing the usability of cotton-shaped artificial bone in bone tumor surgery
*Akira Nabeshima*, Dept. of Orthop. Surg., Clinical Medicine,
 Graduate School of Medical Sciences, Kyushu Univ....S1430

8 : 20 ~ 9 : 20	Educational lecture 7	Moderator T. Morii
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- 2-3-EL7 Reading and writing medical papers in the AI era
*Keisuke Horiuchi*, Dept. of Orthop. Surg., National Defense Medical College...S1431

9 : 30 ~ 10 : 30	Educational lecture 8	Moderator T. Takagi
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- 2-3-EL8 Palliative interventional radiology for painful bone and soft-tissue tumors
*Hideyuki Nishiofuku*, Dept. of Diagnostic and Interventional Radiology,
 Palliative Care Center, Nara Medical Univ....S1431

10 : 40 ~ 11 : 40	Educational lecture 9	Moderator A. Kido
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- 2-3-EL9 Prolonging survival in cancer patients through management of locomotive syndrome
*Yusuke Shinoda*, Dept. of Rehabilitation Medicine, Saitama Medical Univ....S1432

13 : 10 ~ 14 : 10	Luncheon seminar 7	Moderator J. Imanishi
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- 2-3-LS7-1 Clinical experience with a novel compressive implant: considerations on indications, surgical strategy, and pitfalls *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S1433

14 : 20 ~ 15 : 20	Educational lecture 10	Moderator J. Nishida
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- 2-3-EL10 Reconstruction methods and lymphedema management after resection of bone and soft tissue tumors *Takamasa Shimizu*, Dept. of Orthop. Surg., Nara Medical Univ. ...S1434

15 : 30 ~ 17 : 00	Symposium 8	Moderators H. Hiraga, T. Torigoe
Advances and challenges in imaging diagnosis of bone and soft tissue tumors		

- 2-3-SY8-1 Development of an AI-based osteosarcoma X-ray reading system for regulatory approval *Joe Hasei, et al.*, Dept. of Medical Information and Assistive Technology Development, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S1435
- 2-3-SY8-2 Analysis of immune microenvironment of invasive soft tissue sarcoma focusing on the tumor edge *Akane Ariga, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo ...S1435
- 2-3-SY8-3 Nuclear medicine examination in bone and soft tissue tumors *Toshiharu Shirai*, Yokohama Sakae Kyosai Hosp. ...S1436
- 2-3-SY8-4 The utility of FDG-PET and whole-body MRI in myxoid liposarcoma *Akira Nabeshima, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S1436
- 2-3-SY8-5 Usefulness of PET-CT in determining the effectiveness of bone tumor therapy *Masanobu Takeyama, et al.*, Dept. of Musculoskeletal Tumor Surg., Kanagawa Cancer Center ...S1437
- 2-3-SY8-6 SUVmax of PET-CT is useful for prognostic stratification of non-responder in osteosarcoma to preoperative chemotherapy *Toshiyuki Takemori, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp. ...S1437

17 : 10 ~ 18 : 10	Main program 8	Moderators M. Hosaka, H. Koyanagi
Quality of life in bone and soft tissue tumor patients: Rehabilitation, exercise, and physical activity		

- 2-3-MO8-1★ The potential of bone metastasis rehabilitation in cancer locomotive syndrome: ADL/QOL assessment in non-surgical cases *Natsuko Fukuoka, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S1438
- 2-3-MO8-2 Comparative study of vertebroplasty in spinal metastasis and osteoporotic vertebral fractures: DPC database analysis *Go Uesugi, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo ...S1438
- 2-3-MO8-3 Factors associated with decreased function and quality of life after surgery for soft-tissue sarcoma of the thigh *Atsushi Tanaka, et al.*, Dept. of Orthop. Surg., Shinshu Univ. ...S1439
- 2-3-MO8-4★ Research on physical activity in patients underwent elbow reconstruction from a Japanese Musculoskeletal Oncology Group *Jun Sugaya, et al.*, Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp. ...S1439
- 2-3-MO8-5 Association of muscle volume with relative dose intensity and survival in high-grade extremity osteosarcoma *Hironari Tamiya, et al.*, Dept. of Orthop. Surg., Osaka International Cancer Institute ...S1440

- 2-3-MO8-6 Early safety and efficacy of an unsupervised exercise program for cancer patients during and after treatment *Tabu Gokita, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center...S1440

2nd Day July 18 Room 4

7 : 15 ~ 8 : 15 Morning seminar 2 Up-to-date treatment of vascular tumors and vascular malformations	Moderator Y. Nishida
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- 2-4-MS2-1 Up-to-date treatment of vascular tumors and vascular malformations: Focusing on pharmacotherapy, IVR, and other non-surgical treatments
 *Hiroshi Furukawa, et al.*, Dept. of Plastic and Reconstructive Surg., Aichi Medical Univ...S1441
- 2-4-MS2-2 Rapamycin should be a new treatment option for refractory intramuscular hemangiomas (venous malformations)
 *Keiichi Muramatsu*, Dept. of Orthop. Surg., Hand Div., Nagato General Hosp...S1441

8 : 20 ~ 9 : 20 Main program 9 Long-term follow-up strategies and lifelong management for bone and soft tissue tumor patients	Moderators Y. Yoshida, M. Hoshi
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- 2-4-MO9-1 Does extended curettage decrease the local recurrence rate of chondromyxoid fibroma?
 *Liuzhe Zhang, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp.,
 The Univ. of Tokyo...S1442
- 2-4-MO9-2 Management for non-ossifying fibroma and fibrous cortical defect
 *Manabu Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp...S1442
- 2-4-MO9-3 Long-term follow-up in pediatric patients with benign bone tumors
 *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1443
- 2-4-MO9-4 Bone and soft tumor working group in the update of clinical practice guidelines for fertility preservation *Robert Nakayama, et al.*, Dept. of Orthop. Surg., Keio Univ...S1443
- 2-4-MO9-5 Impact of chemotherapy for bone sarcoma on bone density in children, adolescents and young adults: A study by CT values
 *Masato Sugawara, et al.*, Dept. of Orthop. Surg., Yamagata Univ...S1444
- 2-4-MO9-6 Clinical features of secondary malignant neoplasms in pediatric patients with malignant bone and soft tissue tumors *Hiroshi Hatano, et al.*, Niigata Cancer Center Hosp...S1444

9 : 30 ~ 10 : 30 Free paper 5 Surgical treatment 1	Moderators K. Kikuta, S. Takenaka
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- 2-4-FP5-1 Local invasion pattern of myxoid round cell liposarcoma with reference to preservation of neurovascular bundles
 *Yoji Shido, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S1445
- 2-4-FP5-2★ Risk factors for perioperative complications in retroperitoneal sarcoma surgery
 *Makoto Yamaguchi, et al.*, Dept. of Orthop. Surg., Nagoya City Univ.,
 Graduate School of Medical Sciences...S1445
- 2-4-FP5-3 High complication rate and poor prognosis of radiation-associated sarcoma in the pelvis
 *Koichi Okajima, et al.*, Dept. of Orthop. Surg.,
 The Univ. of Tokyo Hosp., The Univ. of Tokyo...S1446
- 2-4-FP5-4 Retrospective evaluation of the FAA using the linea aspera an indicator for modular prostheses of proximal femur
 *Yuichi Ichikawa, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ...S1446
- 2-4-FP5-5 Retroperitoneal sarcoma invades to dorsal subcutaneous tissue with contralateral renal cell carcinoma *Noboru Kambe, et al.*, Dept. of Orthop. and Spinal Surg.,
 Graduate School of Medical and Dental Sciences, Institute of Science Tokyo...S1447

2-4-FP5-6	Surgical outcomes and prognostic factors of non-metastatic radiation-induced sarcoma of bone <i>Yusuke Tsuda, et al.</i> , Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S1447
2-4-FP5-7	A case of multiple malignant transformation of Ollier's disease <i>Kohei Kono, et al.</i> , Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine...S1448
2-4-FP5-8	Clinical outcome of synovial sarcoma <i>Takuya Watanabe, et al.</i> , Dept. of Orthop. Oncology and Surg., Saitama International Medical Center, Saitama Medical Univ...S1448
2-4-FP5-9	Investigation of factors associated with bone union of frozen autograft using liquid nitrogen <i>Yusei Katsuyama, et al.</i> , Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...S1449
2-4-FP5-10	Factors associated with nonunion in malignant bone tumors of lower limb long bone treated with frozen autograft <i>Sei Morinaga, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ...S1449

10 : 40 ~ 11 : 40	Free paper 6 Surgical treatment 2	Moderators K. Asanuma, S. Ohshika
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2-4-FP6-1	Surgical outcomes of amputation and reconstruction for malignant bone tumors of the fingers <i>Taro Nagai, et al.</i> , Dept. of Orthop. Surg., Tokyo Medical Univ...S1450
2-4-FP6-2	The role of preoperative Intensity modulated radiation therapy for infiltrative subtypes of soft-tissue sarcomas <i>Satoshi Tsukushi, et al.</i> , Dept. of Orthop. Surg., Aichi Cancer Center...S1450
2-4-FP6-3	Surgical approach to chondroblastoma arising in the proximal posterior tibia <i>Yosuke Honda, et al.</i> , Japanese Red Cross Hamamatsu Hosp...S1451
2-4-FP6-4	A case of osteofibrous dysplasia of the right tibia operated on after 18 years <i>Hitoshi Yamada, et al.</i> , Dept. of Orthop. Surg., Yuasa Foundation Jusendo General Hosp...S1451
2-4-FP6-5	Survival time after resection for soft tissue metastasis of cancer in our institution <i>Takashi Noguchi, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ...S1452
2-4-FP6-6	Relationship between surgical treatment and prognosis for metastatic bone tumors of the femur <i>Yuya Izubuchi, et al.</i> , Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui...S1452
2-4-FP6-7	Short-term outcomes of tumor endoprosthetic replacement using Compress-type implants for malignant bone tumors <i>Naomasa Fukase, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1453
2-4-FP6-8	Surgical method for pathological fracture of proximal femoral bone metastasis <i>Masahiro Yoshida, et al.</i> , Aichi Cancer Center...S1453
2-4-FP6-9	The factors affecting MSTTS score after wide excision for malignant bone and soft tissue tumors of the upper extremity <i>Hanako Tsuji, et al.</i> , Dept. of Orthop. Surg., Tokyo Medical Univ...S1454
2-4-FP6-10	Investigating the impact of surgical methods for metastatic femoral bone tumors on postoperative treatment for cancers <i>Takaaki Tanaka, et al.</i> , Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui...S1454

14 : 20 ~ 15 : 20	Main program 10	Moderators Y. Tanzawa, J. Imanishi
Future perspectives on bone metastasis treatment - Part 2: Limb and pelvic metastases		

2-4-MO10-1	Efficacy of long-term denosumab treatment for bone metastases <i>Hitomi Hara, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1455
2-4-MO10-2	Comparative analysis of surgical invasiveness in internal fixation for pathological versus traumatic fractures <i>Katsuhiro Hayashi, et al.</i> , School of Health Sciences, College of Medical, Pharmaceutical and Health Sciences, Kanazawa Univ...S1455

2-4-MO10-3	Predicting perioperative mortality after surgery for metastatic bone tumor <i>Tomoaki Torigoe, et al.</i> , Dept. of Orthop. Oncology and Surg., Saitama International Medical Center, Saitama Medical Univ.···S1456
2-4-MO10-4	The consultation system for bone metastatic cases by using communication tool within electronic medical record system <i>Tomoya Matsunobu, et al.</i> , Dept. of Orthop. Surg., Kyushu Rosai Hosp.···S1456
2-4-MO10-5★	Impact of pathological fractures on patients with femoral metastasis: Tokai tumor consortium multi-center study..... <i>Tomohisa Sakai, et al.</i> , Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S1457
2-4-MO10-6	Prognostic prediction of ICI treatment using nutritional scores: Early mortality risk in metastatic bone tumors <i>Takeo Suzuki, et al.</i> , Dept. of Orthop. Surg., Fukushima Medical Univ.···S1457

15 : 30 ~ 16 : 30	Free paper 7 Surgical treatment 3	Moderators K. Hayashi, K. Sato
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2-4-FP7-1	Treatment outcomes of dedifferentiated liposarcoma by site <i>Masanori Okamoto, et al.</i> , Dept. of Orthop. Surg., Shinshu Univ.···S1458
2-4-FP7-2	A case report of osteoid osteoma of C7 lamina underwent endoscopic tumor resection with CT navigation <i>Fumitake Tezuka, et al.</i> , Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1458
2-4-FP7-3	Impaction bone grafting in revision for tumor endoprosthesis around the knee <i>Munehisa Kito, et al.</i> , Dept. of Orthop. Surg., Shinshu Univ.···S1459
2-4-FP7-4	The impact of residual tumor on postoperative outcomes in synovial chondromatosis <i>Norio Kurosawa, et al.</i> , Dept. of Orthop. Oncology, Surg., The Cancer Institute Hosp. of JFCR···S1459
2-4-FP7-5	Factors influencing the timing of resumption of systemic treatment after surgery in patients with metastatic femur <i>Yuki Ishibashi, et al.</i> , Japanese Red Cross Musashino Hosp.···S1460
2-4-FP7-6	Impact of unplanned excision in soft tissue sarcoma in hand: Evaluation of additional wide resection <i>Hiroshi Koike, et al.</i> , Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S1460
2-4-FP7-7	A case of thoracic spinal phosphaturic mesenchymal tumor resection using microscope-based augmented reality navigation <i>Fumitake Tezuka, et al.</i> , Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1461
2-4-FP7-8	Does lung resection improve the survival of bone and soft tissue sarcoma patients with lung metastases? <i>Mariko Kawamura, et al.</i> , Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1461
2-4-FP7-9	Treatment outcomes of soft tissue sarcoma in contact with bone <i>Suguru Fukushima, et al.</i> , Dept. of Orthop. Surg., Kyushu Cancer Center···S1462
2-4-FP7-10	Three cases of combined radiofrequency ablation before curettage for bone metastasis <i>Ryoko Sawada, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine···S1462

16 : 40 ~ 17 : 40	Free paper 8 Surgical treatment 4	Moderators E. Nakata, K. Ikuta
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2-4-FP8-1	Pelvic sarcomas: A comparative study of surgical and non-surgical treatment outcomes <i>Hiroshi Koike, et al.</i> , Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S1463
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2-4-FP8-2	Surgical management of metastatic spinal cord compression <i>Ryo Miyagi, et al.</i> , Dept. of Orthop. Surg., Tokushima Prefectural Central Hosp.··S1463
2-4-FP8-3	The challenge of predicting early mortality in palliative surgery for metastatic spinal tumors <i>Tetsuto Yamaura, et al.</i> , Dept. of Orthop. Surg., Hyogo Medical Univ.··S1464
2-4-FP8-4	A case of pseudomyogenic hemangioendothelioma requiring differentiation from abscess <i>Tsukasa Mizuno, et al.</i> , Dept. of Orthop. Surg., National Defense Medical College··S1464
2-4-FP8-5	Surgical procedures and clinical outcomes for soft tissue sarcomas adjacent to bone <i>Jun Iwatsu, et al.</i> , Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine··S1465
2-4-FP8-6	Five cases requiring femoral artery reconstruction for extensive resection of malignant soft tissue tumors in the Groin <i>Tomoaki Mori, et al.</i> , Dept. of Orthop. Surg., Keio Univ.··S1465
2-4-FP8-7	Treatment outcome of malignant bone tumors that arise from the rib <i>Masanori Saito, et al.</i> , The Cancer Institute Hosp. of JFCR··S1466
2-4-FP8-8	Recovery of ambulation in elderly undergoing fracture surgery for femoral metastasis <i>Hirokazu Shimizu, et al.</i> , Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.··S1466
2-4-FP8-9	Clinical experience of angiofibroma of soft tissue cases <i>Taisuke Tanizawa, et al.</i> , The Cancer Institute Hosp. of JFCR··S1467
2-4-FP8-10	Clinical features of excessive elderly patients with soft tissue sarcoma over 85 or 90 years old ··· <i>Hiroyuki Tsuchie, et al.</i> , Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine··S1467

2nd Day July 18 Room 5

8 : 20 ~ 9 : 20	Free paper 9 Bone metastasis	Moderators M. Susa, H. Tsuchie
2-5-FP9-1	Current status and problems of bone metastasis treatment in our hospital as deciphered from radiologic reports <i>Taisuke Matsuyama, et al.</i> , Dept. of Orthop. Surg., Teikyo Univ.··S1468	
2-5-FP9-2	Outcomes of each treatment for spinal metastasis causing neurological symptoms in patients with prostate cancer <i>Hirokazu Shoji, et al.</i> , Niigata City General Hosp.··S1468	
2-5-FP9-3	Multimodal therapy for bone metastases centered on the cancer board and multidisciplinary team collaboration <i>Hideki Murata, et al.</i> , Shizuoka Cancer Center··S1469	
2-5-FP9-4	Impact of immune-inflammatory and nutrition status on prognosis prediction in patients with metastatic spinal tumor <i>Yoichi Kaneuchi, et al.</i> , Dept. of Orthop. Surg., Fukushima Medical Univ.··S1469	
2-5-FP9-5	Efficacy of surgical treatment for oligometastases of bone <i>Keisuke Akaike, et al.</i> , Dept. of Orthop. Surg., Yamanashi Prefectural Central Hosp.··S1470	
2-5-FP9-6	Treatment algorithm for metastatic bone tumors of the lower extremity with pathological fractures <i>Kazuhiko Hashimoto, et al.</i> , Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine··S1470	
2-5-FP9-7	Ongoing issue in bone metastasis management: Comparison of clinical problems between “Then” and “Now” <i>Sayaka Yamaguchi, et al.</i> , Dept. of Orthop. Surg., Keio Univ.··S1471	
2-5-FP9-8	Deep learning enables to clarify the association of osteoporosis risk with the incidence of bone metastasis <i>Hirokazu Shimizu, et al.</i> , Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.··S1471	
2-5-FP9-9	Outcome in bone metastases of squamous cell carcinoma of the lung <i>Naoki Iwasaki, et al.</i> , Dept. of Orthop. Surg., Kasukabe Medical Center··S1472	
2-5-FP9-10	How the administration timing of zoledronic acid affects metastatic bone tumors - <i>Manabu Watanabe, et al.</i> , Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine··S1472	

9 : 30 ~ 10 : 30	Free paper 10	Moderators	Y. Shinoda, T. Nakamura
Other new treatments, rehabilitation, function, quality of life, and others			

- 2-5-FP10-1★ Long-term walking ability after Pirogoff amputation for midfoot synovial sarcoma
..... *Hiroki Sato, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1473
- 2-5-FP10-2 Clinical characteristics and prognostic factors of undifferentiated pleomorphic sarcoma and myxofibrosarcoma
..... *Yoshinori Imura, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medicine, Osaka Univ. ...S1473
- 2-5-FP10-3 Clinical investigation of bone density loss and fracture in children with cancer
..... *Masayuki Morishita, et al.*, Dept. of Orthop. Surg., Kobe Children's Hosp. ...S1474
- 2-5-FP10-4 Cross-cultural adaptation of Japanese version of the Spine Oncology Study Group Outcomes Questionnaire (SOSGOQ) 2.0
..... *Yoichi Kaneuchi, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1474
- 2-5-FP10-5 Bone metastasis screening at a regional general hospital without orthopaedic oncologists
..... *Nobuhiko Yokoyama, et al.*, Dept. of Orthop. Surg.,
Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S1475
- 2-5-FP10-6 Gait analysis to identify feature of gait and gaze linked to fear of falling in postoperative lower limb tumors patients
..... *Itsuki Nagaoka, et al.*, Faculty of Science and Technology, Keio Univ. ...S1475
- 2-5-FP10-7 Indications and short-term outcomes of radiofrequency ablation for musculoskeletal tumors other than osteoid osteoma
..... *Kei Takeuchi, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1476
- 2-5-FP10-8 Application of intraoperative MRI to bone and soft tissue tumor surgery at our hospital
..... *Akihiro Oda, et al.*, Dept. of Orthop. Surg.,
Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S1476
- 2-5-FP10-9 Examination of the relationship between metastatic patterns of bone metastases and primary tumors
..... *Takeo Fujito, et al.*, Dept. of Orthop./Rheumatology,
Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
Graduate School of Medicine, Nagoya Univ. ...S1477
- 2-5-FP10-10 Evaluation of iron condition and utility of intravenous supplementation in patients with bone and soft tissue tumors
..... *Naoki Takada, et al.*, Dept. of Orthop. Surg.,
Osaka Metropolitan Univ. Graduate School of Medicine ...S1477

10 : 40 ~ 11 : 40	Free paper 11	Diagnosis - Imaging	Moderators	T. Yasuda, H. Otani
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- 2-5-FP11-1 Prediction of prognosis and estimation of timing for sarcoma development by tumor doubling time analysis of sarcomas
..... *Akira Ogose, et al.*, Uonuma Institute of Community Medicine, Niigata Univ. Hosp. ...S1478
- 2-5-FP11-2 Risk factors for metastatic spinal cord compression in patients with spinal metastatic: Analysis of epidural metastases
..... *Shuhei Ohyama, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medicine, Chiba Univ. ...S1478
- 2-5-FP11-3 Characteristics of epidural metastases in patients with symptomatic spinal metastases
..... *Shuhei Ohyama, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medicine, Chiba Univ. ...S1479
- 2-5-FP11-4 A proposed radiological model for preoperative chemotherapy response prediction in patients with Ewing sarcoma
..... *Hisaki Aiba, et al.*, Dept. of Orthop. Surg.,
Nagoya City Univ., Graduate School of Medical Sciences ...S1479
- 2-5-FP11-5 Prognostic analysis of osteosarcoma with indeterminate pulmonary nodules
..... *Hirokazu Shimizu, et al.*, Dept. of Orthop. Surg.,
Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S1480

2-5-FP11-6	Differentiation between atypical lipomatous tumor and dedifferentiated liposarcoma using metabolic parameters in PET/MRI <i>Itaru Ogawa, et al.</i> , Dept. of Orthop. Surg., Fukushima Medical Univ.··S1480
2-5-FP11-7	A retrospective study of femoral sarcoma surgery cases with vascular separation maneuver <i>Hiroto Kamoda, et al.</i> , Dept. of Orthop. Surg., Chiba Cancer Center··S1481
2-5-FP11-8	A case of Kimura's disease in the upper arm required differentiation from malignant soft tissue tumor <i>Daisuke Hatanaka, et al.</i> , Dept. of Orthop. Surg., Nihon Univ.··S1481
2-5-FP11-9	Frequency and background of FOPE <i>Ryuta Iwanaga, et al.</i> , Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine··S1482
2-5-FP11-10	Identification of osteochondroma sites using a one-class model trained on normal knee X-rays and cGAN-generated images <i>Akio Sakamoto, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ.··S1482

14 : 20 ~ 15 : 20	Free paper 12	Pharmacotherapy	Moderators	M. Endo, A. Yoshiyama
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2-5-FP12-1	CHONQUER: A phase 3 study of ivosidenib vs placebo in IDH1-mutant conventional chondrosarcoma encore presentation <i>Akira Kawai, et al.</i> , National Cancer Center Hosp.··S1483
2-5-FP12-2	Outcome of the second line chemotherapy for advance soft tissue sarcoma over 70 years old <i>Yutaka Nezu, et al.</i> , Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine··S1483
2-5-FP12-3	A study of the use of Regorafenib in children with advanced osteosarcoma at our hospital <i>Yumi Matsuyama, et al.</i> , Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine··S1484
2-5-FP12-4	Efficacy of chemotherapy and prognostic factors for unresectable advanced osteosarcoma <i>Shinichirou Yoshida, et al.</i> , Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine··S1484
2-5-FP12-5	Therapeutic effects of immune checkpoint inhibitors on metastatic bone tumors <i>Kan Ito, et al.</i> , Shizuoka Cancer Center··S1485
2-5-FP12-6	Osteoporosis in cancer patients <i>Nokitaka Setsu, et al.</i> , Dept. of Orthop. Surg., Kyushu Cancer Center··S1485
2-5-FP12-7	A case of NTRK fusion gene positive unresectable dedifferentiated chordoma successfully treated with NTRK inhibitor <i>Toshihiko Ando, et al.</i> , Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo··S1486
2-5-FP12-8	Sorafenib in relapsed and unresectable osteosarcoma <i>Nokitaka Setsu, et al.</i> , Dept. of Orthop. Surg., Kyushu Cancer Center··S1486
2-5-FP12-9	A case of refractory abdominal desmoid tumor <i>Shotaro Nakamura, et al.</i> , Dept. of Orthop. Surg., Hyogo Cancer Center··S1487
2-5-FP12-10	Treatment outcomes of preoperative ai therapy for extremity soft tissue sarcomas at our institution <i>Ryu Terauchi, et al.</i> , Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine··S1487

15 : 30 ~ 16 : 30	Free paper 13	Case reports 1	Moderators	M. Ieguchi, Y. Shido
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2-5-FP13-1	A case of primary retroperitoneal pleomorphic sarcoma with pronounced inflammation resected after chemoradiotherapy <i>Tetsuya Ogawa, et al.</i> , Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine··S1488
2-5-FP13-2	Radiation-induced periosteal chondrosarcoma of the ilium: A case report <i>Hitomi Tsunashima, et al.</i> , Dept. of Orthop. Surg., National Defense Medical College··S1488
2-5-FP13-3	Myxoinflammatory fibroblastic sarcoma in the middle finger: A case report <i>Ken Inoue, et al.</i> , JR Sapporo Hosp.··S1489

2-5-FP13-4	Malignant transformation of a cutaneous mixed tumor of the finger: A case report <i>Masanori Kurokawa, et al.</i> , Dept. of Orthop. Surg., Fukushima Medical Univ.···S1489
2-5-FP13-5	A case of clear cell sarcoma in the Achilles tendon successfully treated with autologous tendon reconstruction <i>Yuki Mori, et al.</i> , Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine···S1490
2-5-FP13-6	A case of high grade sarcoma with intravascular tumor embolism reached the remission after chemotherapy and resection <i>Kengo Sasai, et al.</i> , Dept. of Orthop. Surg., Asahikawa Medical Univ.···S1490
2-5-FP13-7	Erdheim-Chester disease presenting as bilateral pathological femoral fractures <i>Takeshi Okamoto, et al.</i> , Dept. of Orthop. Surg. Otsu Red Cross Hosp.···S1491
2-5-FP13-8	Synchronous multicentric osteosarcoma: A case report and review of literature <i>Ryuji Nemoto, et al.</i> , Dept. of Orthop. Surg., National Defense Medical College···S1491
2-5-FP13-9	A case of malignant myoepithelioma arising on the upper arm <i>Hayato Tatsumi, et al.</i> , Dept. of Orthop. Surg., Hiroshima Prefectural Hosp.···S1492
2-5-FP13-10	Two pediatric cases of scurvy with selective eating and autism spectrum disorder presented as suspected bone tumors <i>Naohiro Shinohara, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.···S1492

16 : 40 ~ 17 : 40	Free paper 14 Case reports 2	Moderators K. Yamada, T. Kawamoto
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2-5-FP14-1	Three cases of CIC-rearranged sarcoma diagnosed at our hospital <i>Hiroki Takahashi, et al.</i> , Chiba Cancer Center···S1493
2-5-FP14-2	Translumbar amputation for a recurrent soft tissue sarcoma in the pelvis (from retroperitoneal space to thigh) <i>Kenji Endo, et al.</i> , Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1493
2-5-FP14-3	FGF23-related tumor-induced osteomalacia: three cases highlighting diagnoses and treatments ··· <i>Kosei Ando, et al.</i> , Dept. of Orthop. Surg., Shiga Univ. of Medical Science···S1494
2-5-FP14-4	A case of atypical teratoid/rhabdoid tumor(AT/RT) in the spine of an adult <i>Shohei Murata, et al.</i> , Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S1494
2-5-FP14-5	Two cases of tumor-induced osteomalacia caused by FGF-23 producing tumors <i>Koki Yoshioka, et al.</i> , Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ.···S1495
2-5-FP14-6	A case of hemophilic pseudotumor in the finger of a child <i>Risa Takenaka, et al.</i> , Saiseikai Otaru Hosp.···S1495
2-5-FP14-7	A case of simple bone cyst of the humerus that developed after percutaneous pinning of the hemeral fracture <i>Osamu Dohi, et al.</i> , Dept. of Orthop. Surg., Tohoku Kosai Hosp.···S1496
2-5-FP14-8	Ewing sarcoma of the scapula treated with carbon ion radiotherapy to preserve limb function: A report of 3 cases <i>Noriko Kato, et al.</i> , Dept. of Orthop. Surg., Gunma Univ. Graduate School of Medicine···S1496
2-5-FP14-9	A case of bone metastasis with pathological fracture of distal humerus, treated by endoprosthetic replacement <i>Shoji Kojima, et al.</i> , Dept. of Orthop. Surg., Aichi Medical Univ.···S1497
2-5-FP14-10	Persistent joint effusion in the knees due to lipoma aborescens <i>Hiroyuki Futani, et al.</i> , Osaka Kaisei Hosp.···S1497

2nd Day July 18 Poster Room 1

15 : 00 ~ 15 : 25		Poster 10 Epidemiology, statistics, and registry 2	Moderator K. Hayakawa
2-P10-1	Statistics of MPNST in Japan: Report from the population-based National Cancer Registry in Japan	..... <i>Shudai Muramatsu, et al.</i> , Dept. of Musculoskeletal Oncol. Rehabilitation, National Cancer Center Hosp.···S1498	
2-P10-2	What blood tests are useful in predicting prognosis in metastatic bone tumors?	..... <i>Ryo Satake, et al.</i> , Shizuoka Cancer Center···S1498	
2-P10-3	Relationship between nutritional assessment and early death in patients with femoral metastasis who underwent surgery	..... <i>Itsuo Watanabe, et al.</i> , Dept. of Rehabilitation, Tokyo Dental College Ichikawa General Hosp.···S1499	
2-P10-4	ITD is calculated as an interval from the onset of awareness of a tumor to diagnosis	..... <i>Daigo Shiraishi, et al.</i> , Dept. of Orthop. Surg., Sapporo Medical Univ.···S1499	
2-P10-5	Clinical features and prognosis of patients with pathological proximal femoral fractures of cancer metastasis	..... <i>Tetsuro Yamagishi, et al.</i> , Niigata Cancer Center Hosp.···S1500	
15 : 25 ~ 16 : 00		Poster 11 Basic research: Part 2	Moderator T. Nishisho
2-P11-1★	Spatial transcriptomic analysis of MPNST and neurofibroma	..... <i>Satoshi Kamio, et al.</i> , Div. of Cellular Signaling, National Cancer Center Research Institute···S1501	
2-P11-2★	Development of Anti-Galectin-3 humanized antibody for the treatment of osteosarcoma	..... <i>Kosei Nakajima, et al.</i> , National Cancer Center···S1501	
2-P11-3★	Identification of p21-positive immature osteoblasts as potential cells of origin for osteosarcomas	..... <i>Masato Saito, et al.</i> , Dept. of Orthop. Surg., Keio Univ.···S1502	
2-P11-4★	Violet light induces apoptosis via ROS in chordoma	..... <i>Shunsuke Tamaki, et al.</i> , Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1502	
2-P11-5★	Establishment of patient-derived organoid models for personalized medicine in malignant bone and soft tissue tumors	..... <i>Hirokazu Tanaka, et al.</i> , Dept. of Orthop., Juntendo Univ.···S1503	
2-P11-6	The effect of teriparatide on bone metastasis of breast cancer	..... <i>Takashi Kawaragi, et al.</i> , Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S1503	
2-P11-7	Analysis of the regulatory factors of osteosarcoma differentiation	..... <i>Makoto Takeuchi, et al.</i> , Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School···S1504	
16 : 00 ~ 16 : 30		Poster 12 Pathological diagnosis, others 2	Moderator R. Terauchi
2-P12-1★	A case of extraskeletal myxoid chondrosarcoma arising in the ilium	..... <i>Yuichiro Nonaka, et al.</i> , Dept. of Orthop. Surg., Keio Univ.···S1505	
2-P12-2★	A broad spectrum of myxoid variation of spindle cell lipoma: A report of 6 cases	..... <i>Satoshi Miwa, et al.</i> , Dept. of Musculoskeletal Oncology, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.···S1505	
2-P12-3	Sclerosing perineurioma coexisting with acoustic schwannoma in the right ring finger	..... <i>Ryo Bando, et al.</i> , Dept. of Orthop. Surg., Saitama Cancer Center···S1506	
2-P12-4	Diagnosis of primary site with bone metastatic patients visited to orthopaedic surgeons for the first time	..... <i>Shuichiro Suzuki, et al.</i> , Matsumoto Medical Center···S1506	
2-P12-5	A review of patient characteristics by department addressed in the diagnosis of multiple myeloma	..... <i>Shuntaro Wada, et al.</i> , Dept. of Orthop. Surg., Iwate Medical Univ.···S1507	
2-P12-6	Clinical outcome of cardiac soft tissue sarcomas <i>Shunji Nishimura, et al.</i> , Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine···S1507	

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- 2-P13-1 Clinical outcomes of the knee reconstruction using frozen autograft combined with total knee arthroplasty
..... *Yasunori Tome, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus...S1508
- 2-P13-2 The case of treatment of bone metastases from ovarian granulosa cell tumors
..... *Tomohiko Ito, et al.*, Dept. of Orthop. Surg., Kindai Univ. Nara Hosp....S1508
- 2-P13-3 A case of distal leg malignant soft-tissue tumor managed to antegrade pedicle frozen autograft for limb preservation
..... *Naoki Furukawa, et al.*, Dept. of Orthop., Juntendo Univ....S1509
- 2-P13-4 Two cases of hip dislocations after proximal femur replacement for metastatic bone tumor
..... *Naoki Tsuruta, et al.*, Kitami Red Cross Hosp....S1509
- 2-P13-5 Cases of fibroma of tendon sheath in the ankle and sole
..... *Tetsuo Shimoyama, et al.*, Dept. of Orthop. Surg., Fujita Health Univ....S1510
- 2-P13-6 The surgical management of enchondromas with pathologic fractures of the hand
..... *Eiji Kozawa, et al.*, Dept. of Orthop. Surg., Nagoya Memorial Hosp....S1510

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- 2-P14-1 Clinical feature of extrapleural solitary fibrous tumor
..... *Yoshikuni Mimata, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ....S1511
- 2-P14-2 A review of treatment outcomes after inappropriate resection at our hospital
..... *Yoshinori Takemura, et al.*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science...S1511
- 2-P14-3 Outcomes of particle therapy for malignant bone and soft tissue tumors of the extremities
..... *Shunsuke Yahiro, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1512
- 2-P14-4 The need for fragility fracture prevention to improve life outcomes in cancer patients
..... *Hitoshi Yamada, et al.*, Dept. of Orthop. Surg., Yuasa Foundation Jusendo General Hosp....S1512
- 2-P14-5 Diagnosis and treatment of intra-articular tumors of the knee joint
..... *Yasuo Yoshimura, et al.*, Dept. of Orthop. Surg., Shinshu Ueda Medical Center...S1513

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- 2-P15-1 A case of peroneal nerve palsy caused by a ganglion
..... *Saaya Masaki, et al.*, Nagoya Memorial Hosp....S1514
- 2-P15-2 Two cases of malignant melanoma diagnosed of lymph node metastasis
..... *Takashi Okuda, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ....S1514
- 2-P15-3 A rare case of synovial sarcoma originating from the greater omentum
..... *Naohiro Osada, et al.*, Okazaki City Hosp....S1515
- 2-P15-4 A study of six cases of atypical spindle cell/pleomorphic lipomatous tumor
..... *Shuichi Fujiwara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1515
- 2-P15-5 Plexiform schwannoma of middle finger: A case report
..... *Yoshihiro Araki, et al.*, Dept. of Orthop. Surg., Hirose Hosp....S1516
- 2-P15-6 A case of kaposiform hemangioendothelioma with saphenous nerve entrapment
..... *Hina Nakamura, et al.*, Dept. of Orthop. and Spinal Surg., Institute of Science Tokyo Hosp....S1516
- 2-P15-7 A case of Ewing's sarcoma suspected a schwannoma of the chest wall
..... *Hideji Nishida, et al.*, Toyama Nishi General Hosp....S1517

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Other new treatments, rehabilitation, function, quality of life, and others 3

- 2-P16-1 Investigation of the proportion of cancer patients among in-hospital referrals to our department and the needs *Satoshi Okita, et al.*, Dept. of Orthop., Shimane Univ. ...S1518
- 2-P16-2 Prognostic factors for survival in lung cancer patients with bone metastases
..... *Ikuo Kudawara, et al.*, Dept. of Orthop. Surg.,
National Hosp. Organization Osaka National Hosp. ...S1518
- 2-P16-3 Unplanned excision of soft tissue sarcoma in a single institute
..... *Hiromichi Oshiro, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus ...S1519
- 2-P16-4 Treatment outcome of surgical treatment or heavy ion radiation for malignant bone/soft-tissue tumors of periacetabulum *Takanao Kurozumi, et al.*, Dept. of Orthop. Surg.,
Science of Functional Recovery and Reconstruction, Faculty of Medicine,
Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S1519
- 2-P16-5 A case of long-term survival with NY-ESO-1-specific TCR-T cell therapy for advanced synovial sarcoma *Hironori Date, et al.*, Dept. of Musculoskeletal Surg.,
Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S1520

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Moderator H. Kimura

- 2-P17-1 A case of malignant transformation of periosteal chondroma arising in the fifth metacarpal bone
..... *Tomohiro Izawa, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S1521
- 2-P17-2 Two cases of giant cell tumor of bone during pregnancy
..... *Koki Shimizu, et al.*, Dept. of Orthop. Surg., Nagoya Memorial Hosp. ...S1521
- 2-P17-3 Giant cell tumor of distal radius treated with preoperative denosumab and external fixation to preserve wrist function *Kazuki Minamidate, et al.*, Gunma Prefectural Cancer Center ...S1522
- 2-P17-4 Pathological fracture of proximal humerus due to angiosarcoma mimicking renal cell carcinoma, a case report
..... *Katsuhiro Fukushima, et al.*, Dept. of Orthop. Surg., Ishinomaki Red Cross Hosp. ...S1522
- 2-P17-5 Two cases Leeds-Keio was used on wide resection of malignant and foreign body granulomas were formed postoperatively *Genji Suemitsu, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S1523
- 2-P17-6 Significance of orthopaedic interventions in terminal cancer patients
..... *Katsushi Suzuki, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center ...S1523
- 2-P17-7 Treatment experience with continuous local antibiotic perfusion for infection following tumor prosthesis reconstruction *Shiro Saito, et al.*, Nagoya Tokushukai General Hosp. ...S1524