

The 56th Annual Musculoskeletal Tumor Meeting of the Japanese Orthopaedic Association

Held in Tokyo, July 13 and 14, 2023

On-demand sessions: July 26 - August 31, 2023

Congress President, Jun Nishida

Department of Orthopaedic Surgery, Tokyo Medical University

1st Day July 13 Room 1

8 : 30 ~ 10 : 00 Symposium 1 Moderators A. Matsumine, M. Hakoziaki Educating and developing the musculoskeletal tumor surgeon

- 1-1-SY01-1 Current status of training of bone and soft tissue oncologists in Japan and overseas
- *Makoto Endo*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ.···S1301
- 1-1-SY01-2 Musculoskeletal oncology of an inexperienced orthopaedic surgeon
····· *Yu Toda, et al.*, Dept. of Orthop. Surg., Saga Univ.···S1301
- 1-1-SY01-3 What fascinates orthopaedic surgeons to basic and translational research in bone and soft-tissue tumors? ······ *Tomohiro Fujiwara, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine···S1302
- 1-1-SY01-4 The attraction of clinical study in bone and soft tissue tumors
····· *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg.,
Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine···S1302
- 1-1-SY01-5 From basic science to clinical translation in musculoskeletal tumor
····· *Koichi Ogura, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
National Cancer Center Hosp.···S1303
- 1-1-SY01-6 Educational system for orthopaedic oncologist
····· *Seiichi Matsumoto*, Cancer Institute Hosp. of JFCR···S1303

10 : 50 ~ 11 : 50 Special lecture 1 Moderator K. Tsuchiya

- 1-1-SL01-1 My "Dream, Dare, and Do" for the future ······ *Hiroyuki Tsuchiya*, Dept. of Orthop. Surg.,
Graduate School of Medical Sciences, Kanazawa Univ.···S1304

12 : 00 ~ 13 : 00 Luncheon seminar 1 Moderator Y. Yazawa

- 1-1-LS01-1 Joint function reconstruction with mega-prosthesis for bone and soft tissue tumors and metastatic bone tumors -Mid and long term outcomes of GMRS lower extremity prosthesis system in Japan-
····· *Keisuke Ae*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR···S1304

13 : 10 ~ 14 : 40 Symposium 2 Moderators Y. Suehara, E. Kobayashi The current situation and issues of genomic medicine in musculoskeletal tumor treatment

- 1-1-SY02-1 Prospect of the development of comprehensive genomic profiling in Japan and the United States ······ *Shinji Kohsaka*, National Cancer Center Research Institute···S1305
- 1-1-SY02-2 Construction of medical system for effective use of comprehensive genomic profiling
····· *Eiji Nakata, et al.*, Science of Functional Recovery and Reconstruction,
Okayama Univ. Graduate School of Medicine···S1305
- 1-1-SY02-3 Clinical genomic analysis of musculoskeletal tumors
····· *Robert Nakayama, et al.*, Dept. of Orthop. Surg., Keio Univ.···S1306

- 1-1-SY02-4 Immunotherapy for sarcoma in the post-genome era
 *Tomohide Tsukahara*, Dept. of Pathol., Sapporo Medical Univ.··S1306
- 1-1-SY02-5 Utilization of RNA panel in bone and soft tissue sarcomas
 *Hiroshi Kobayashi*, Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo··S1307
- 1-1-SY02-6 Current status and future prospects of genomic medicine for pediatric and AYA cancers:
 Bone & soft tissue tumors *Kayoko Tao, et al.*, National Cancer Center Hosp.··S1307

14 : 50 ~ 15 : 50 Educational lecture 1 Moderator K. Tanaka

- 1-1-EL01-1 Bone destruction and pain in cancer bone metastases, how occur?
 *Hiroyuki Kawashima*, Div. of Orthop. Surg.,
 Dept. of Regenerative and Transplant Medicine,
 Niigata Univ. Graduate School of Medical and Dental Sciences··S1308

16 : 00 ~ 17 : 00 Educational lecture 2 Moderator Y. Nishida

- 1-1-EL02-1 'Hallmarks of Cancer': Up-to-dates in sarcomas
 *Kanya Honoki*, Dept. of Orthop. Surg., Nara Medical Univ.··S1308

1st Day July 13 Room 2

**8 : 30 ~ 10 : 00 Panel discussion 1 Moderators H. Sugiura, Y. Shinoda
 How to develop treatment for cancer-related locomotive syndromes**

- 1-2-PD01-1 What has and has not changed with the bone metastasis cancer board
 *Munenori Watanuki, et al.*, Dept. of Orthop. Surg., JR Sendai Hosp.··S1309
- 1-2-PD01-2 What has changed and what has not changed with an outpatient clinic specializing in
 bone metastases *Takeo Furuya, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medicine, Chiba Univ.··S1309
- 1-2-PD01-3 Multidisciplinary care for overturning patients with cancer loco
 *Masahiro Yoshida, et al.*, Aichi Cancer Center··S1310
- 1-2-PD01-4 Treatment strategy for osteoporotic cancer patients
 *Hiroataka Koyanagi, et al.*, Dept. of Orthop. Oncol., Saitama Cancer Center··S1310
- 1-2-PD01-5 Future of "Cancer Locomo": An experience of screening for sarcopenia in over
 one thousand patients with cancer
 *Toshihisa Osanai, et al.*, Div. of Rehab Med., Hokkaido Cancer Center··S1311
- 1-2-PD01-6 How to prevent and improve locomotive syndrome in cancer patients
 *Jungo Imanishi, et al.*, Dept. of Orthop. Surg., Teikyo Univ.··S1311

12 : 00 ~ 13 : 00 Luncheon seminar 2 Moderator S. Matsumoto

- 1-2-LS02-1 Unsolved problems in tumor endoprosthesis
 *Yuusuke Tsuda*, Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo··S1312

**13 : 10 ~ 14 : 40 Panel discussion 2 Moderators T. Hiruma, R. Imai
 Carbon ion radiotherapy for musculoskeletal tumors: Recent advances and current issues**

- 1-2-PD02-1 Carbon-ion radiotherapy for bone and soft tissue tumor at SAGA HIMAT
 *Akira Matsunobu*, SAGA HIMAT··S1313
- 1-2-PD02-2 Cooperation between Osaka International Cancer Institute and Osaka Heavy Ion
 Therapy Center *Satoshi Takenaka, et al.*, Musculoskeletal Oncology Service,
 Osaka International Cancer Institute··S1313

- 1-2-PD02-3 Better indications of heavy ion therapy from a physician's perspective. Can it be expanded?
 *Yuki Funachi, et al.*, Dept. of Orthop. and Spinal Surg.,
 Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ.··S1314
- 1-2-PD02-4 Indications of carbon ion radiotherapy for bone and soft tissue sarcoma
 *Tsukasa Yonemoto, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center··S1314
- 1-2-PD02-5 Side effects of radiotherapy: Cases from a station at Kanagawa Cancer Center
 *Fumiko Schwarz, et al.*, Dept. of Nursing Kanagawa Cancer Center··S1315
- 1-2-PD02-6 Carbon-ion radiotherapy for bone and soft tissue tumors at the East Japan Heavy Ion Center
 *Hiraku Sato*, East Japan Heavy Ion Center, Yamagata Univ. Faculty of Medicine··S1315

14 : 50 ~ 16 : 50 Free paper (Bone tumor club) 1 Moderators M. Ikegami, H. Koyanagi

- 1-2-FP01-1 Left acetabular tumor
 *Yurina Mikasa, et al.*, Dept. of Human Path., Wakayama Medical Univ.··S1316
- 1-2-FP01-2 Giant soft tissue tumor of the left shoulder
 *Kyoko Yamashita, et al.*, Dept. of Pathol., Cancer Institute Hosp. of JFCR··S1316
- 1-2-FP01-3 A case of myxoid pleomorphic liposarcoma with rhabdoid cells
 *Ikuma Kato, et al.*, Dept. Mol. Pathol., Yokohama City Univ.··S1317
- 1-2-FP01-4 A case of soft tissue sarcoma regressed after chemotherapy following THA revision for
 suspected postoperative infection
 *Hanako Tsuji, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ.··S1317
- 1-2-FP01-5 Osteolytic lesion arising from the left femoral head to the neck
 *Yoshinao Kikuchi, et al.*, Dept. of Pathol., Teikyo Univ.··S1318
- 1-2-FP01-6 A case of mesenchymal neoplasm with *ACTB::GLI1* fusion
 *Naohiro Makise, et al.*, Div. Surg. Pathol., Chiba Cancer Center··S1318

17 : 10 ~ 19 : 10 Clinicopathologic conference Moderators T. Torigoe, M. Hisaoka, S. Hitachi

- 1-2-CC-1 A case of the distal femur bone tumor
 *Tatsuro Saruga, et al.*, Dept. of Orthop. Surg., Hirosaki Univ.
 Graduate School of Medicine··S1319
- 1-2-CC-2 Bone tumor in sacrum *Naoki Oike, et al.*, Div. of Orthop. Surg.,
 Dept. of Regenerative and Transplant Medicine,
 Niigata Univ. Graduate School of Medical and Dental Sciences··S1319
- 1-2-CC-3 A plantar tumor that was difficult to diagnose and rapidly developed multiple bone metastases
 *Shunsuke Hamada, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center··S1320
- 1-2-CC-4 A case of tibia tumor
 *Takayuki Kawaguchi, et al.*, Dept. of Orthop. Surg., Hyogo College of Medicine··S1320

1st Day July 13 Room 3

8 : 30 ~ 9 : 30 Educational lecture 3 Moderator Y. Matsumoto

- 1-3-EL03-1 An encouragement of bone metastasis treatment for orthopaedic oncologists
 *Hirota Kawano*, Dept. of Orthop. Surg., Teikyo Univ.··S1321

9 : 40 ~ 10 : 40 Educational lecture 4 Moderator H. Hiraga

- 1-3-EL04-1 Prediction of recurrence after cancer treatment by AI: Application of AI in tumor morphology
 *Masahiko Kuroda*, Dept. of Mol. Pathol., Tokyo Medical Univ.··S1321

12 : 00 ~ 13 : 00 Luncheon seminar 3 Moderator H. Sugiura

1-3-LS03-1 The future of soft tissue and bone tumour classification: What can you expect from your pathologist?
*Daniel Baunhoer*, Bone Tumour Reference Centre and DOESAK Reference Registry at the Institute of Medical Genetics and Pathology, Univ. Hosp. Basel, Basel, Switzerland...S1322

13 : 10 ~ 14 : 10 Educational lecture 5 Moderator A. Ogose

1-3-EL05-1 Pathological diagnosis and molecular genetic analysis in the WHO 2020 classification of bone and soft tissue tumors*Yoshinao Oda*, Dept. of Anatomic Pathol., Graduate School of Medical Sciences, Kyushu Univ...S1322

14 : 20 ~ 15 : 20 Afternoon seminar 1 Moderator A. Matsumine

1-3-AS01-1 Pearls and pitfalls in trabectedin treatment for advanced soft tissue sarcomas*Shintaro Iwata*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp...S1323

**15 : 30 ~ 17 : 00 Symposium 3 Moderators N. Yamamoto, T. Tanizawa
 The future anticipation of biological reconstruction**

1-3-SY03-1 Biological reconstruction using liquid nitrogen-treated tumor-bearing bone*Norio Yamamoto, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ...S1324

1-3-SY03-2 Long-term clinical outcome of pasteurized autografts in surgery for bone and soft tissue sarcoma*Tabu Gokita, et al.*, Dept. of Orthop. Oncol., Saitama Cancer Center...S1324

1-3-SY03-3 The long term outcomes of intraoperative extracorporeal irradiated autografts for musculoskeletal tumors*Naoki Oike, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences...S1325

1-3-SY03-4 Reconstruction surgery with distraction osteogenesis for bone tumor*Hidenori Matsubara, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ...S1325

1-3-SY03-5 Vascularized bone graft for reconstruction of skeletal defect after resection of musculoskeletal tumor*Kunihiko Ikuta, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ...S1326

1-3-SY03-6 Treatment of reconstruction by intercalary allograft after wide resection in lower leg*Keiko Hayakawa, et al.*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR...S1326

1st Day July 13 Room 4

8 : 30 ~ 9 : 30 Invited lecture 1 Moderator Y. Oda

1-4-IL01-1 Advances in the molecular pathology of translation-associated sarcomas*Torsten O. Nielsen*, Dept. of Pathology, Univ. of British Columbia, Vancouver, Canada...S1327

9 : 40 ~ 10 : 40 Invited lecture 2 Moderator A. Kawai

1-4-IL02-1 Structure and function of ATP-dependent chromatin remodeling complexes in human sarcomas*Cigall Kadoch*, Dana-Farber Cancer Institute and Harvard Medical School, Dept. of Pediatric Oncology, Boston, MA, USA...S1327

12 : 00 ~ 13 : 00	Luncheon seminar 4	Moderator H. Hiraga
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1-4-LS04-1 Finding tumor induced osteomalacia in daily medical practice by measuring serum phosphorus concentration*Hiraku Kameda*, Hokkaido Univ. Hosp.···S1328

13 : 10 ~ 14 : 10	Best Poster Award	Moderators K. Hiraoka, U. Anazawa
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1-4-BP-1 Development of novel therapeutic agents targeting redox regulation in rhabdomyosarcoma with PDX model*Hideyuki Kinoshita, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center···S1329

1-4-BP-2 Graft survivals after reconstruction using tumor-bearing frozen autograft in the extremities*Shinji Miwa, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.···S1329

1-4-BP-3 Prognostic implication of immunohistochemical perilipin 1 and adipophilin expression in high-grade liposarcoma*Kengo Kawaguchi, et al.*, Dept. of Anatomic Pathol., Graduate School of Medical Sciences, Kyushu Univ.···S1330

1-4-BP-4 The mid- to long-term assessment for patient-reported outcome measure of tumor endoprostheses around the knee*Yasuhiko Kokubu, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ.···S1330

1-4-BP-5 Lovastatin induces novel cell death due to impaired mitochondria iron utilization specifically in osteosarcoma cells*Shingo Kishi, et al.*, Dept. Pathol., Research Institute Nozaki Tokushukai···S1331

1-4-BP-6 Therapeutic results of tenosynovial giant cell tumor of ankle*Hideki Nishimura, et al.*, Dept. of Orthop. Surg., Kagawa Univ.···S1331

1-4-BP-7 Blue LED induces apoptotic cell death in bone and soft tissue sarcomas*Shinji Kawaguchi, et al.*, Dept. of Orthop., The Univ. of Tokushima Graduate School···S1332

14 : 20 ~ 15 : 20	Best Presentation Award	Moderators T. Akiyama, T. Kunisada
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1-4-BO-1 Survival analysis in patients with soft tissue sarcomas who did not receive surgical intervention*Masatake Matsuoka, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1333

1-4-BO-2 Development of a risk scoring system to predict surgical-site infection after soft-tissue sarcoma resection*Shinji Miwa, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.···S1333

1-4-BO-3 The usefulness of prognostic nutritional index in predicting prognosis of soft tissue sarcomas*Keiju Saito, et al.*, Dept. of Orthop. Surg., Yokohama City Univ.···S1334

1-4-BO-4 Apparent and true decline in performance status in patients with spinal metastatic tumors with skeletal related events*Masataka Miura, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.···S1334

1-4-BO-5 Super methotrexate-resistance in osteosarcoma cells is linked to malignancy and expression of PI3K/AKT/mTOR and c-MYC*Yusuke Aoki, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus···S1335

1-4-BO-6 Establishment and characterization of NCC-DSM1-C1: A novel cell line derived from a patient with desmoid fibromatosis*Taro Akiyama, et al.*, National Cancer Center Research Institute···S1335

1-4-BO-7 Grouping myxofibrosarcoma by mode of infiltration*Yu Toda, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.···S1336

Day 1

15 : 30 ~ 16 : 30	Invited lecture 3	Moderator H. Futani
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- 1-4-IL03-1 Three dimensional printing technique for reconstruction following resection of massive bone tumor*Hyun-Guy Kang, et al.*, Orthop. Oncology Clinic, National Cancer Center, Gyeonggi-do, Korea...S1337

1st Day July 13 Room 5

8 : 30 ~ 9 : 30	Free paper 2 Benign bone tumors	Moderators A. Sakamoto, Y. Shido
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- 1-5-FP02-1 Clinical study of surgical treatment of a painful bone tumor arising in the proximal tibia in a child*Naohiro Osada, et al.*, Dept. of Orthop. Surg, Nagoya Memorial Hosp...S1338
- 1-5-FP02-2 Knee locking caused by osteochondroma of the proximal tibia adjacent to the pes anserinus: A case report*Tatsuru Sonobe, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ...S1338
- 1-5-FP02-3 The thickness of the cartilage cap may be related to the spontaneous regression in the patients with osteochondroma*Ryohei Adachi, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1339
- 1-5-FP02-4 Treatment of the fractured osteochondroma in the young athlete's knee*Hiroyuki Futani, et al.*, Dept. of Orthop. Surg., Hyogo College of Medicine...S1339
- 1-5-FP02-5 Osteoscopic surgery of enchondromas of the hand during childhood in Ollier disease*Takayuki Kawaguchi, et al.*, Dept. of Orthop. Surg., Hyogo College of Medicine...S1340
- 1-5-FP02-6 Outcomes of minimally invasive surgery using CT for osteoid osteoma*Naoya Terao, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences...S1340
- 1-5-FP02-7 CT-guided curettage and ablation with electrocautery for osteoid osteoma*Satoshi Kamio, et al.*, Dept. of Orthop. Surg., Keio Univ...S1341
- 1-5-FP02-8 Short-term results of internal fixation with elastic stable intramedullary nailing for solitary bone cysts*Masayuki Morishita, et al.*, Kobe Children's Hosp...S1341
- 1-5-FP02-9 Long-term clinical outcome of solitary bone cyst in long bone: A Japanese Musculoskeletal Oncology Group study*Akihiko Takeuchi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ...S1342
- 1-5-FP02-10 Epidemiology and clinical characteristics of SBC in Japan using the national registry of bone and soft tissue tumors*Akihiko Takeuchi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ...S1342
- 1-5-FP02-11 Clinical outcome of patients with Paget's disease of bone*Michiro Susa, et al.*, Dept. of Orthop. Surg., National Defense Medical College...S1343
- 1-5-FP02-12 Treatment outcomes of curettage in tumor-induced osteomalacia lesions in bone*Koichi Okajima, et al.*, Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo...S1343

9 : 40 ~ 10 : 40	Free paper 3 Border line bone tumors	Moderators K. Sato, M. Emori
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- 1-5-FP03-1 Femoral head chondroblastoma: Experience of five cases*Tepppei Tomaru, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1344
- 1-5-FP03-2 Giant cell tumor of bone arising simultaneously in the distal right tibia and right sciatic bone*Shin Ishihara, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp...S1344
- 1-5-FP03-3 A case of Giant cell tumor of bone forming a large extraosseous mass with stalk originated from a sacral and iliac bone*Toshimori Tsukanishi, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ., Ibaraki Medical Center...S1345

Day 1

- 1-5-FP03-4 A case of ulna transposition following resection after denosumab for recurrence of giant cell tumor of distal radius *Hiromi Sasaki, et al.*, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ. ...S1345
- 1-5-FP03-5 Preoperative administration of denosumab for soft tissue recurrence of giant cell tumor of bone, a case report *Masami Hosaka, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center ...S1346
- 1-5-FP03-6 The effect of preoperative denosumab treatment on osteoclast and progenitor cell population in GCTB *Ryunosuke Oyama, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ. ...S1346
- 1-5-FP03-7 The efficacy and safety of de-escalation of denosumab for giant cell tumor of bone *Haruyoshi Katayama, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine ...S1347
- 1-5-FP03-8 Denosumab for recurrent/unresectable giant cell tumor of bone in a single institute *Hiromichi Oshiro, et al.*, Orthop. Surg., Univ. of the Ryukyus ...S1347
- 1-5-FP03-9 Three cases of giant cell tumor of acetabulum *Yuta Taniguchi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1348
- 1-5-FP03-10 Osteoarthritis after curettage for giant cell tumor of bone around the knee *Takeo Fujito, et al.*, Dept. of Orthop. Surg., Nagoya Univ. Hosp. ...S1348
- 1-5-FP03-11 Outcome of reoperation for local recurrence following en bloc resection for bone giant cell tumor of the extremity *Tomoya Masunaga, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S1349
- 1-5-FP03-12 Outcome of reoperation for local recurrence following preoperative denosumab and curettage for giant cell tumor of bone *Shinji Tsukamoto, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S1349

12 : 00 ~ 13 : 00	Luncheon seminar 5	Moderator T. Shirai
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- 1-5-LS05-1 Mega-prosthetic reconstruction for massive bone defect in the lower extremity so far and hereafter *Jungo Imanishi*, Dept. of Orthop. Surg., Teikyo Univ. ...S1350

13 : 10 ~ 14 : 10	Main program 1	Moderators H. Nakajima, H. Urakawa
Treatment of metastatic bone tumor 1		

- 1-5-M01-1 The start of bone metastasis treatment at regional core hospital *Keisuke Akaike, et al.*, Dept. of Orthop. Surg., Yamanashi Prefectural Central Hosp. ...S1351
- 1-5-M01-2 The role of the orthopaedic surgeon for the appropriate treatment of primary unknown metastatic bone tumor *Yu Toda, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp. ...S1351
- 1-5-M01-3 Prediction of early postoperative mortality by NLR and PLR in metastatic spinal tumors *Kosuke Takeda, et al.*, Chiba Cancer Center ...S1352
- 1-5-M01-4 Comparison of surgical outcomes in metastatic spine tumors according to the grade of the primary site *Hiroki Ohnishi, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1352
- 1-5-M01-5 Prognostic tendency of bone metastasis from lung cancer over the last decade *Yasuo Yazawa, et al.*, Dept. of Orthop. Oncol. and Surg., Saitama Medical Univ. International Medical Center ...S1353
- 1-5-M01-6 The accuracy and availability of ¹⁸F-FDG PET/CT on myxoid liposarcoma *Akane Ariga, et al.*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR ...S1353

14 : 20 ~ 15 : 20 Afternoon seminar 2 Moderator A. Kawai

1-5-AS02-1 Orthopaedic surgical anatomy of upper extremity for young surgeon
 *Katsunori Inagaki*, Dept. of Orthop. Surg., Showa Univ. ...S1354

**15 : 30 ~ 17 : 00 Panel discussion 3 Moderators T. Morii, S. Iwata
 Musculoskeletal tumor treatment during the pandemic**

1-5-PD03-1 Impact of the COVID-19 pandemic on the treatment of malignant bone and
 soft tissue tumors: Review of the literature
 *Kensaku Yamaga, et al.*, Dept. of Orthop. Surg., Tottori Univ. ...S1355

1-5-PD03-2 A review of sarcoma treatment strategies during the COVID-19 pandemic
 *Masanori Okamoto, et al.*, Dept. of Orthop. Surg., Shinshu Univ. ...S1355

1-5-PD03-3 Impact of the COVID-19 pandemic on bone and soft tissue tumor care in Japan
 *Shintaro Iwata, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp. ...S1356

1-5-PD03-4 Impact of COVID-19 in the treatment of bone and soft tissue tumors in our institution
 *Kosei Ando, et al.*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science ...S1356

1-5-PD03-5 The COVID-19 pandemic: Experiences in cluster response
 *Takaaki Tanaka*, Dept. of Orthop. Rehabilitation Medicine, The Univ. of Fukui ...S1357

1-5-PD03-6 A study from clinical practice of bone and soft tissue tumor under pandemic: Management
 of unknown menace *Takeshi Morii, et al.*, Dept. of Orthop. Surg., Kyorin Univ. ...S1357

1st Day July 13 Room 6

8 : 30 ~ 9 : 30 Jaffe's triangle seminar 1 Moderator T. Matsunobu

1-6-JT01-1 Diagnostic imaging of bone tumors
 *Sota Oguro*, Dept. of Radiology, Tohoku Univ. Hosp. ...S1358

9 : 40 ~ 10 : 40 Jaffe's triangle seminar 2 Moderator H. Hatano

1-6-JT02-1 How to make good use of the Radiologists in the strategy to treat musculoskeletal tumors
 *Teruko Ueno*, Cancer Institute Hosp. of JFCR ...S1358

12 : 00 ~ 13 : 00 Luncheon seminar 6 Moderator K. Honoki

1-6-LS06-1 Multiple fractures and low alkaline phosphatase are important factors of hypophosphatasia
 *Hiroaki Murata*, Matsushita Memorial Hosp. ...S1359

1-6-LS06-2 The importance of early diagnosis: Hypophosphatasia without typical symptoms
 *Aki Takahashi*, Tokyo Dental College ...S1359

13 : 10 ~ 14 : 10 Jaffe's triangle seminar 3 Moderator K. Hayashi

1-6-JT03-1 Microsurgery to bone and soft tissue tumor surgery
 *Keiichi Muramatsu*, Dept. of Orthop. Surg., Yamaguchi Univ.
 Graduate School of Medicine ...S1360

14 : 20 ~ 15 : 20 Afternoon seminar 3 Moderator E. Itoi

1-6-AS03-1 Indication and future prospects of reverse shoulder arthroplasty for cases with bone and
 soft tissue tumors *Yoshihiro Nishida*, Dept. of Rehabilitation, Nagoya Univ. Hosp. ...S1360

15 : 30 ~ 16 : 30 **Jaffe's triangle seminar 4**

Moderator H. Yamada

- 1-6-JT04-1 The concept of adequate surgical margin, from the latest findings
.....*Keisuke Ae, et al.*, Cancer Institute Hosp. of JFCR...S1361

1st Day July 13 Room poster

13 : 10 ~ 13 : 40 **Poster 1 Benign bone tumors 1**

Moderator S. Sugihara

- 1-P1-1 Clinical results of treatment for enchondroma with pathological fracture
.....*Osamu Dohi, et al.*, Dept. of Orthop. Surg., Tohoku Kosai Hosp...S1362
- 1-P1-2 Osteochondroma of the cervical spine: A case report of hereditary multiple osteochondromas
.....*Hiroyuki Ishiguro, et al.*, Orthop. Dept., National Hosp. Organization Osaka National Hosp. ...S1362
- 1-P1-3 Incidence of central cartilage tumors: Focusing on MRI images
.....*Ryuta Iwanaga, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine...S1363
- 1-P1-4 A case of Langerhans cell histiocytosis of the 8th rib in an adult
.....*Eiji Kozawa, et al.*, Dept. of Orthop. Surg. Nagoya Memorial Hosp. ...S1363
- 1-P1-5 Treatment for femoral head chondroblastoma with surgical hip dislocation via an anterior approach: A report of two cases*Yuki Aibara, et al.*, Dept. of Orthop. Surg., Keio Univ...S1364
- 1-P1-6 A case of extensive femoral head chondroblastoma treated with double approach from femoral head and greater trochanter*Kanako Shiba, et al.*, Dept. of Orthop., Dokkyo Medical Univ...S1364

13 : 40 ~ 14 : 10 **Poster 2 Benign bone tumors 2**

Moderator K. Kikuta

- 1-P2-1 A case of hemangioma of femur treated by surgery
.....*Shunichi Toki, et al.*, Dept. of Orthop., Institute of Biomedical Sciences,
Tokushima Univ. Graduate School...S1365
- 1-P2-2 Intraosseous thoracic schwannoma. A case report
.....*Misato Iwanaka, et al.*, Dept. of Orthop. Surg., Keio Univ...S1365
- 1-P2-3 Calcaneal bone tumor treated with new calcium phosphate bone paste: A case report
.....*Tetsu Mitsuhashi, et al.*, Ibaraki Prefectural Central Hosp...S1366
- 1-P2-4 Pathological fracture of giant cell tumor with using denosumab for visualizing intraarticular lesions: A case report*Itaru Ogawa, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ...S1366
- 1-P2-5 A case of cystic fibrous dysplasia in acetabulum treated by joint preserving surgery
.....*Shuichiro Suzuki, et al.*, Dept. of Orthop. Surg., Matsumoto Medical Center...S1367
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- 1-P3-1 Four cases of FGF23-related hypophosphatemic osteomalacia
.....*Ryo Okada, et al.*, Dept. of Orthop., Institute of Biomedical Sciences,
Tokushima Univ. Graduate School...S1368
- 1-P3-2 Clinical course of Langerhans cell histiocytosis with a diagnosis confirmed by an initial orthopaedic outpatient clinic*Masayuki Morishita, et al.*, Kobe Children's Hosp...S1368
- 1-P3-3 Two cases of focal periphyseal edema with suspected bone tumors
.....*Keiichi Akahori, et al.*, Dept. of Orthop. Surg., Tottori Univ...S1369
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.....*Ryotaro Otaka, et al.*, Dept. of Orthop., Dokkyo Medical Univ...S1369

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..... *Tomohiro Miyazaki, et al.*, Div. of Orthop. Surg.,
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..... *Yuhei Mogi, et al.*, Dept. of Orthop. Surg.,
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..... *Shigeki Kakunaga, et al.*, Dept. of Orthop. Surg., Osaka International Cancer Institute ...S1378
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..... *Manabu Hoshi, et al.*, Dept. of Orthop. Surg.,
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..... *Hiroataka Kurata, et al.*, Dept. of Orthop. Surg., Tohoku Univ. ...S1379

- 1-P6-4 Clinical outcome in patients with head and neck soft tissue sarcoma
 *Tomohito Hagi, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1379
- 1-P6-5 Treatment outcome of soft tissue sarcoma of axillary origin
 *Masanori Saito, et al.*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR...S1380
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 *Eiji Nakata, et al.*, Science of Functional Recovery and Reconstruction,
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 *Shudai Muramatsu, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
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 *Shuichi Fujiwara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1382
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 *Marie Uchino, et al.*, Dept. of Musculoskeletal Oncology and Orthop. Surg.,
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- 1-P7-4 Biological reconstruction of the hip after resection of periacetabular oncological lesions
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- 1-P7-5 Treatment and outcomes for advanced chondrosarcoma
 *Kayo Suzuki, et al.*, Dept. of Orthop. Surg., Univ. of Toyama...S1384
- 1-P7-6 Clinical outcomes of chordoma: Review of the clinical course of recurrent cases
 *Yukiko Komatsu, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1384

13 : 40 ~ 14 : 10 Poster 8 Malignant bone tumors 2 Moderator O. Dohi

- 1-P8-1 Preservation of shoulder function for low-grade chondrosarcoma in the proximal humerus using
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- 1-P8-2 Treatment using tyrosine kinase inhibitor against refractory osteosarcoma; Case series
 *Takashi Noguchi, et al.*, Dept. of Orthop. Surg., Kyoto Univ. Hosp...S1385
- 1-P8-3 Evaluation of antitumor effect on osteosarcoma by photothermal therapy using carbon nanotubes
 *Tomohiko Sakuda, et al.*, Dept. of Orthop. Surg.,
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 Dept. of Musculoskeletal Oncology and Metabolic Bone Disease Research,
 Fukushima Medical Univ...S1387
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 in the distal tibia *Hana Yao, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ.
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14 : 10 ~ 14 : 40 Poster 9 Metastatic bone tumors 1 Moderator E. Kozawa

- 1-P9-1 Metastasis of an adenocarcinoma of the prostate in the index finger
 *Kojiro Yoshikawa, et al.*, Tokyo Medical Univ. Hosp...S1388
- 1-P9-2 A case of bone metastasis with pathological fracture of distal humerus, treated by internal fixation
 by MIPO technique *Katsuhisa Kawanami, et al.*, Dept. of Orthop. Surg., Aichi Medical Univ...S1388

- 1-P9-3 Surgical treatment options for metastatic bone tumors of the long tubular bone of the lower extremity *Michihito Miyagi, et al.*, Shizuoka City Shizuoka Hosp. ...S1389
- 1-P9-4 Femoral metastasis of renal cell carcinoma performed curettage and nailing after stereotactic radiation: A case report *Takeo Shimogawa, et al.*, Orthop. Surg., Ibaraki Prefectural Central Hosp. ...S1389
- 1-P9-5 Analysis of bone union after internal fixation for impending or pathological fracture of metastatic femoral bone tumor *Tomoaki Mori, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1390
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- 1-P10-1 Analysis of bone biopsy to metastatic bone tumor *Daiichiro Takahara, et al.*, Dept. of Orthop. Surg., Yamagata Univ. ...S1391
- 1-P10-2 Hormonal therapy for metastatic spinal cord compression from prostate cancer *Tomonori Kawaharada, et al.*, Ishinomaki Red Cross Hosp. ...S1391
- 1-P10-3 Outcomes of percutaneous surgery for ambulatory patients with metastatic spine tumors: BKP versus PPS *Junya Miyahara, et al.*, Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo ...S1392
- 1-P10-4 Impact of specialized outpatient clinic on bone metastasis and its burden on spine surgeons *Hiroyuki Tsuchie, et al.*, Div. of Orthop. Surg., Akita Univ. ...S1392
- 1-P10-5 Bone metastasis treatment by outpatient clinic specializing in bone metastasis *Takeo Furuya, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S1393
- 1-P10-6 Clinical characteristics of brain metastases in sarcoma patients *Yudai Murayama, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences ...S1393

15 : 20 ~ 15 : 50	Poster 11 Metastatic bone tumors 3	Moderator H. Tada
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- 1-P11-1 Preventive strategy and the current situation based on the onset mechanism of osteonecrosis of the jaw *Taiki Suzuki, et al.*, Dept. of Oral Oncology, Oral and Maxillofacial Surg., Tokyo Dental College ...S1394
- 1-P11-2 Clinical outcomes of denosumab for solid carcinoma bone metastasis in the real world *Atsushi Mihara, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine ...S1394
- 1-P11-3 Denosumab usage for bone metastases in our hospital and impact of denosumab discontinuation *Nobuhiko Yokoyama, et al.*, Dept. of Orthop. Surg., National Kyushu Cancer Center ...S1395
- 1-P11-4 Clinical result of radiotherapy combined with rehabilitation for acetabular metastasis *Tadaaki Koyama, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center ...S1395
- 1-P11-5 Two cases of mini-open periacetabular cementoplasty (MO-PAC) for periacetabular bone metastasis *Masahiro Kirisawa, et al.*, Dept. of Orthop. Oncol. and Surg., Saitama Medical Univ. International Medical Center ...S1396
- 1-P11-6 Investigation of cancer of unknown primary at initial diagnosis associated with pathological or impending fracture *Eiji Osaka, et al.*, The Dept. of Orthop. Surg., Nihon Univ. ...S1396

15 : 50 ~ 16 : 25	Poster 12 Tumor-like lesions	Moderator K. Asanuma
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- 1-P12-1 A case of RDC with huge ossifying lesion which needs differential diagnosis of soft tissue tumor *Taro Uehara, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ. ...S1397
- 1-P12-2 Subcutaneous sarcoidosis mimics infiltrative malignant soft-tissue tumor: Two cases report and literature review *Yoshihiro Araki, et al.*, Dept. of Orthop. Surg., Fukui Prefectural Hosp. ...S1397
- 1-P12-3 2 cases of soft tissue mass caused by localized deposition of amyloid in the extremity *Yuichiro Murakami, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ. ...S1398

- 1-P12-4 A case of subungual exostosis of early recurrence and rapid growth
*Shohei Murata, et al.*, Kakunodate General Hosp.···S1398
- 1-P12-5 A case of ossifying myositis of the hand that was difficult to diagnose
*Tsukasa Mizuno, et al.*, Dept. of Orthop. Surg., National Defense Medical College···S1399
- 1-P12-6 A case of adult hypophosphatasia with massive tumoral calcinosis
*Tatsuo Yokoi, et al.*, Dept. of Orthop. Surg., Gifu Prefectural General Medical Center···S1399
- 1-P12-7 A case of Gorham disease in the scapula
*Toshinori Tsukanishi, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ.,
 Ibaraki Medical Center···S1400

2nd Day July 14 Room 1

8 : 30 ~ 10 : 00 Symposium 4

Moderators T. Goto, K. Horiuchi

The pros and cons of bone modifying agents

- 2-1-SY04-1 Biological and pathological changes in giant cell tumor of bone with denosumab treatment
*Masanobu Takeyama, et al.*, Dept. of Orthop. Surg., Yokohama City Univ.···S1401
- 2-1-SY04-2 Pros and cons of denosumab therapy in treating surgically challenging cases of giant cell
 tumor of bone*Naofumi Asano, et al.*, Dept. of Orthop. Surg., Keio Univ.···S1401
- 2-1-SY04-3 Pros and cons of denosumab treatment for operable giant cell tumor of bone
*Hiroshi Urakawa*, Dept. of Advanced Medicine, Nagoya Univ. Hosp.···S1402
- 2-1-SY04-4 Local recurrence of giant cell tumor of bone underwent preoperative administration of
 denosumab*Takanori Hatanaka, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ.···S1402
- 2-1-SY04-5 Denosumab in pediatric patients
*Nokitaka Setsu, et al.*, Div. of Orthop. Surg., Kyushu Cancer Center···S1403
- 2-1-SY04-6 Multimodal approach toward symptomatic skeletal metastasis in the pelvic bone
*Sayaka Yamaguchi, et al.*, Dept. of Orthop. Surg., Keio Univ.···S1403

10 : 50 ~ 11 : 50 Special lecture 2

Moderator Y. Yazawa

- 2-1-SL02-1 Personal history of imaging diagnosis of bone tumor
*Shigeru Ehara*, Dept. of Radiol., JCHO Sendai Hosp.···S1404

12 : 00 ~ 13 : 00 Luncheon seminar 7

Moderator S. Tanaka

- 2-1-LS07-1 Let's learn about cancer treatment-induced bone loss!: Basic knowledge for orthopaedic
 surgeons in the cancer era*Hiroataka Kawano*, Dept. of Orthop. Surg., Teikyo Univ.···S1404

13 : 10 ~ 14 : 10 Educational lecture 6

Moderator T. Tajino

- 2-1-EL06-1 History of pasteurized bone graft and future prospects
*Jun Manabe*, Dept. of Orthop. Oncol., Saitama Cancer Center···S1405

14 : 20 ~ 15 : 20 Educational lecture 7

Moderator R. Nakayama

- 2-1-EL07-1 Fertility preservation for patients with musculoskeletal tumor
*Seido Takaie, et al.*, Dept. of OBGYN, St. Marianna Univ. School of Medicine···S1405

2nd Day July 14 Room 2

7 : 20 ~ 8 : 20 Morning seminar 1 Moderator T. Hiruma

- 2-2-MS01-1 Treatment strategy for bone and soft tissue tumors at our facility: As the only treatable facility in the prefecture
*Kazutaka Kikuta*, Dept. of Bone and Soft Tissue Oncology and Orthop.,
 Tochigi Cancer Center...S1406

8 : 30 ~ 9 : 30 Educational lecture 8 Moderator H. Morioka

- 2-2-EL08-1 Diagnosis and treatment of bone and soft tissue tumors: Where do we come from? Where are we going?
*Akihiko Matsumine*, Dept. of Orthop. Rehabilitation Medicine, The Univ. of Fukui...S1407

9 : 40 ~ 10 : 40 Educational lecture 9 Moderator T. Akisue

- 2-2-EL09-1 Prognostic factors for bone metastases: Their evolution and clinical application
*Hirohisa Katagiri*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1407

12 : 00 ~ 13 : 00 Luncheon seminar 8 Moderator T. Ueda

- 2-2-LS08-1 Position paper 2023 on medication-related osteonecrosis of the jaw
*Hiromitsu Kishimoto*, Dept. of Oral Surg., Hyogo Medical Univ...S1408

13 : 10 ~ 14 : 40 Symposium 5 Moderators K. Ihara, S. Tsukushi

The reconstructive procedure for the upper extremity following resection of sarcoma: Current status and future measures

- 2-2-SY05-1 Functional reconstruction of shoulder joint
*Katsuhiro Hayashi, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ...S1409
- 2-2-SY05-2 Clinical evaluation of sling procedure in malignant bone and soft tissue sarcomas around shoulder joints*Eisuke Kobayashi, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp...S1409
- 2-2-SY05-3 Proximal humerus reconstruction after tumor resection
*Yoshikuni Mimata, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ...S1410
- 2-2-SY05-4 Functional reconstruction in soft tissue sarcoma cases around the elbow
*Taisuke Tanizawa, et al.*, Cancer Institute Hosp. of JFCR...S1410
- 2-2-SY05-5 Reconstruction of the forearm and wrist following resection of musculoskeletal tumor
*Hiroshi Hatano, et al.*, Niigata Cancer Center Hosp...S1411
- 2-2-SY05-6 Therapeutics outcome of bone and soft tissue sarcomas of the hand
*Keiichi Muramatsu, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ.
 Graduate School of Medicine...S1411

14 : 50 ~ 15 : 50 Educational lecture 10 Moderator S. Shimose

- 2-2-EL10-1 Essentials of medical treatment for three groups in bone/soft tissue tumor treatment
*Yoshihiro Nishida*, Dept. of Rehabilitation, Nagoya Univ. Hosp...S1412

2nd Day July 14 Room 3

7 : 20 ~ 8 : 20 Morning seminar 2 Moderator Y. Inaba

- 2-3-MS02-1 Evolution of prostheses in musculoskeletal oncology
 *Pietro Ruggieri, et al.*, Dept. of Orthop. and Orthop. Oncology, Univ. of Padova,
 Padova, Italy...S1413

**8 : 30 ~ 9 : 30 Main program 2 Moderators T. Shirai, Y. Tome
 Treatment of the advanced musculoskeletal tumor**

- 2-3-M02-1 Response factor analysis of 2nd-line chemotherapy for soft-tissue sarcoma based on C-CAT
 information
 *Masachika Ikegami, et al.*, Dept. of Musculoskeletal Oncol., Komagome Hosp...S1414
- 2-3-M02-2 Exploring the biomarker for predicting the effect of eribulin using C-CAT
 *Shin Ishihara, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp...S1414
- 2-3-M02-3 Chemotherapy for metastatic advanced soft tissue sarcoma in our hospital
 *Satoshi Takenaka, et al.*, Musculoskeletal Oncology Service,
 Osaka International Cancer Institute...S1415
- 2-3-M02-4 Characteristics and clinical results of metastatic organs of soft tissue sarcoma without lung
 metastasis *Taketoshi Yasuda, et al.*, Dept. of Orthop. Surg., Univ. of Toyama...S1415
- 2-3-M02-5 Indication for surgical treatment of metastasis from musculoskeletal sarcoma
 *Hiroshi Hatano, et al.*, Niigata Cancer Center Hosp...S1416
- 2-3-M02-6 Genome analyses for predicting the prognosis of osteosarcoma
 *Hidetatsu Otani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ...S1416

**9 : 40 ~ 10 : 40 Main program 3 Moderators T. Yasuda, M. Sugawara
 Treatment of metastatic bone tumor 2**

- 2-3-M03-1 Nonoperative treatment of spinal metastases with possible instability
 *Atsushi Tanaka, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1417
- 2-3-M03-2 Surgery for patients with metastatic spinal tumors through inter-hospital collaboration
 *Hideki Murata, et al.*, Shizuoka Cancer Center...S1417
- 2-3-M03-3 Rehabilitation program for patients with bone metastases at a university hospital:
 ADL and psychological effects
 *Natsuko Fukuoka, et al.*, Dept. of Orthop. Surg., Kagawa Univ...S1418
- 2-3-M03-4 What is the appropriate surgical procedure for metastatic pelvic bone tumors?
 *Shusa Ohshika, et al.*, Dept. of Orthop. Surg., Hiroasaki Univ.
 Graduate School of Medicine...S1418
- 2-3-M03-5 Survival time after palliative radiation therapy in patients with bone metastases in the
 high-risk group *Hideki Murata, et al.*, Shizuoka Cancer Center...S1419
- 2-3-M03-6 Prognostic scoring system in treatment of metastatic spinal tumor
 *Itsuo Watanabe, et al.*, Dept. of Orthop. Surg.,
 Tokyo Dental College Ichikawa General Hosp...S1419

12 : 00 ~ 13 : 00 Luncheon seminar 9 Moderator T. Ozaki

- 2-3-LS09-1 Comprehensive management for locomotive syndrome in cancer patients
 *Tatsuya Takagi*, Dept. of Orthop., Juntendo Univ...S1420

13 : 10 ~ 14 : 40	Panel discussion 4	Moderators T. Takagi, H. Hara
How do we deal with bone metastasis?		

- 2-3-PD04-1 How to detect the cases of bone metastatic tumor and how to manage those case?
.....*Hideki Shigematsu, et al.*, Dept. of Orthop. Surg., Nara Medical Univ.··S1421
- 2-3-PD04-2 Clinical outcome of surgical treatment for femoral metastasis
.....*Takuya Shiroshta, et al.*, Dept. of Orthop. Surg., Japanese Red Cross Kumamoto Hosp.··S1421
- 2-3-PD04-3 Liaison treatment of bone metastasis: The importance of cooperation with the department of radiology
.....*Katsuhito Yoshioka, et al.*, Dept. of Orthop. Surg., NHO Kanazawa Medical Center ···S1422
- 2-3-PD04-4 Conservative treatment and rehabilitation for spinal metastasis with bone metastasis care system
.....*Shinsuke Sugihara, et al.*, National Hosp. Organization Shikoku Cancer Center··S1422
- 2-3-PD04-5 Medical and dental combined multidisciplinary treatment system and full-remote cancer board for bone metastasis ····*Shingo Sato, et al.*, Center for Innovative Cancer Treatment, Tokyo Medical and Dental Univ.··S1423
- 2-3-PD04-6 Bone metastasis patients who underwent initial inpatient care by orthopaedics: Road to home palliative treatment
.....*Masami Hosaka, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center··S1423

14 : 50 ~ 16 : 20	Symposium 6	Moderators Y. Yoshida, T. Yonemoto
The treatment of pediatric musculoskeletal tumor: Recent advances and remaining issues		

- 2-3-SY06-1 Problems in surgery for pediatric malignant bone tumors
.....*Hiroaki Hiraga, et al.*, Dept. of Musculoskeletal Oncology, Hokkaido Cancer Center, National Hosp. Organization··S1424
- 2-3-SY06-2 Reconstruction for pediatric malignant bone tumor ······*Toshiyuki Kunisada, et al.*, Dept. of Musculoskeletal Reconstruction for Medical Materials, Okayama Univ.··S1424
- 2-3-SY06-3 Outcome of limb-sparing surgery for pediatric bone sarcoma around the knee: A multicenter study ······*Tetsuya Sekita, et al.*, Dept. of Orthop. Surg., Keio Univ.··S1425
- 2-3-SY06-4 What we learn from the childhood sarcoma patients
.....*Kanya Honoki, et al.*, Dept. of Orthop. Surg., Nara Medical Univ.··S1425
- 2-3-SY06-5 Treatment-related late adverse effect for young sarcoma
.....*Manabu Hoshi, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine··S1426
- 2-3-SY06-6 Cooperation with pediatrics for treatment of sarcomas in children
.....*Keisuke Ae, et al.*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR··S1426

16 : 30 ~ 17 : 30	Main program 4	Moderators M. Tomita, T. Fujimoto
Innovative medication therapy		

- 2-3-M04-1 Expectations and precautions for the MEK inhibitor selumetinib for plexiform neurofibroma
.....*Yoshihiro Nishida, et al.*, Dept. of Rehabilitation, Nagoya Univ. Hosp.··S1427
- 2-3-M04-2 Creating patient-derived xenograft models of bone and soft tissue tumors
.....*Seiji Okada, et al.*, Div. of Hematopoiesis, Joint Research Center for Human Retrovirus Infection, Kumamoto Univ.··S1427
- 2-3-M04-3 Identification of PRRX1 as a therapeutic target and new drug development in malignant peripheral nerve sheath tumors
.....*Shota Takihira, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine··S1428

- 2-3-M04-4 Possibility of immunotherapy for bone and soft tissue tumor
 *Yoshihiro Matsumoto, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kyushu Univ.··S1428
- 2-3-M04-5 Potential of new BNCT treatment method for unresectable myxofibrosarcoma in upper
 extremities of the elderly
 *Takuya Fujimoto, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center··S1429
- 2-3-M04-6 Boron neutron capture therapy and photoimmunotherapy: Can they be applied to bone and
 soft tissue sarcomas? *Katsumi Hirose, et al.*, Southern Tohoku BNCT Research Center··S1429

2nd Day July 14 Room 4

7 : 20 ~ 8 : 20 Morning seminar 3 Moderator N. Iwasaki

- 2-4-MS03-1 Reverse shoulder arthroplasty for proximal humerus tumor
 *Kazuhiro Shibayama*, Dept. of Sports Orthop., NTT East Hosp.··S1430

8 : 30 ~ 9 : 30 Invited lecture 4 Moderator H. Kawashima

- 2-4-IL04-1 Sacral tumors: The Mayo Clinic approach and experience
 *Peter S. Rose*, Mayo Clinic Rochester, MN, USA··S1431

9 : 40 ~ 10 : 40 Invited lecture 5 Moderator T. Ozaki

- 2-4-IL05-1 Importance of radiologic pathologic correlation in diagnosis and treatment of musculoskeletal
 neoplasms
 *Mark D. Murphey*, ACR Institute for Radiologic Pathology, Silver Spring, MD, USA··S1431

12 : 00 ~ 13 : 00 Luncheon seminar 10 Moderator K. Nakanishi

- 2-4-LS10-1 Radical surgery for spinal metastasis: Distinguishment between osteoporotic and
 pathological fracture *Hideki Murakami*, Dept. of Orthop. Surg., Nagoya City Univ.,
 Graduate School of Medical Sciences··S1432

13 : 10 ~ 14 : 10 Invited lecture 6 Moderator H. Kawano

- 2-4-IL06-1 Developing a rational approach to growth disturbance in children with bone tumors
 *Saminathan Suresh Nathan*, Mount Elizabeth Medical Centre, Singapore··S1433

14 : 20 ~ 15 : 20 Invited lecture 7 Moderator T. Akiyama

- 2-4-IL07-1 Treatment of pelvic tumors: From the past to the newer techniques of reconstruction
 *Pietro Ruggieri, et al.*, Dept. of Orthop. and Orthop. Oncology, Univ. of Padova,
 Padova, Italy··S1433

15 : 30 ~ 16 : 30 Educational lecture 11 Moderator K. Okada

- 2-4-EL11-1 Development of supportive, palliative, and psychosocial care for cancer distress with patient
 public involvement *Yosuke Uchitomi*, National Cancer Center Research Institute··S1434

16 : 40 ~ 17 : 40 Educational lecture 12 Moderator K. Hiraoka

- 2-4-EL12-1 Interventional radiology for spinal metastases
 *Hiroya Saito*, Dept. of Radiology, Sapporo Higashi Tokusuyukai Hosp.··S1434

2nd Day July 14 Room 5

8 : 30 ~ 9 : 30 Free paper 4 Malignant bone tumors 1 Moderators I. Itonaga, H. Shiraishi

- 2-5-FP04-1 Role of SPRR1A in osteosarcoma cells
 *Tomohiro Miyamoto, et al.*, Dept. of Orthop. Surg., Kobe Univ.
 Graduate School of Medicine...S1435
- 2-5-FP04-2 Genomic landscape of actionable alterations in ultra-rare sarcomas: Report from the C-CAT
 database *Koichi Ogura, et al.*, Dept. of Musculoskeletal Oncology and
 Rehabilitation, National Cancer Center Hosp...S1435
- 2-5-FP04-3 Decline of Fbxw7 promotes tumorigenesis via Myc accumulation in Ewing sarcoma cells
 *Masanori Kawano, et al.*, Dept. of Orthop. Surg., Oita Univ...S1436
- 2-5-FP04-4 Is tumor resection based on images after preoperative chemotherapy justified for Ewing
 sarcoma of bone? *Shintaro Iwata, et al.*, Dept. of Musculoskeletal Oncology and
 Rehabilitation, National Cancer Center Hosp...S1436
- 2-5-FP04-5 Clinical outcome in patients with adamantinoma: Report from bone and soft tissue tumor
 registry in Japan *Junya Shimizu, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ...S1437
- 2-5-FP04-6 Statistics of primary spine malignant tumors in Japan
 *Ryuto Tsuchiya, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
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- 2-5-FP04-7 Does resection of the primary malignant bone tumor with distant metastases at
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 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ...S1438
- 2-5-FP04-8 Clinical outcome of secondary chondrosarcoma arising from osteochondroma
 *Yasuo Yoshimura, et al.*, Dept. of Orthop. Surg., Shinshu-Ueda Medical Center...S1438
- 2-5-FP04-9 Reconstruction of wrist after resection of distal radius
 *Keiko Hayakawa, et al.*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR...S1439
- 2-5-FP04-10 A case of a 71-year-old patient with acetabular osteosarcoma who survived 5 years with
 preserved ambulatory function *Naomasa Fukase, et al.*,
 Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1439
- 2-5-FP04-11 Comparison of the clinical outcomes between surgery and particle beam therapy for
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 *Toshiyuki Takemori, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1440

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- 2-5-FP05-1 Implant fracture of compress prosthesis: Two case reports
 *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous
 Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ...S1441
- 2-5-FP05-2 The relationship between femoral rotation and stem anteversion in endoprosthetic proximal femur
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- 2-5-FP05-3 Treatment experience with ceramic spacers for pediatric malignant bone tumors arising from
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- 2-5-FP05-4 Long-term outcomes after minimally-invasive extendable endoprosthesis replacement:
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 *Yusuke Tsuda, et al.*, Orthop. Surg., Graduate School of Medicine,
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- 2-5-FP05-5 Long-term results of extended curettage for G1 central chondrosarcoma of long bones
 *Ikuo Kudawara, et al.*, National Hosp. Organization Osaka National Hosp. ...S1443

- 2-5-FP05-6 Oncological and functional outcomes of extra-versus intra-articular resection of the hip joint for pelvic bone sarcomas
 *Tomohiro Fujiwara, et al.*, The Royal Orthop. Hosp., Birmingham, UK...S1443
- 2-5-FP05-7 Amputation surgery shortened survivals in patients with localized primary bone sarcoma
 *Nayuhito Yanagisawa, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ...S1444
- 2-5-FP05-8 A surgical case of a right proximal humeral chondrosarcoma treated with brachytherapy
 *Keiichi Akahori, et al.*, Dept. of Orthop. Surg., Tottori Univ...S1444
- 2-5-FP05-9 A case of Ewing's sarcoma in scapular reconstructed with autograft treated by liquid nitrogen
 *Akira Nomura, et al.*, Dept. of Orthop. Surg., Tokai Univ...S1445
- 2-5-FP05-10 Biological reconstruction for distal lower leg sarcoma
 *Yuichi Ichikawa, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ...S1445
- 2-5-FP05-11 Clinical outcomes of frozen autograft for femoral malignant bone and soft tissue sarcomas
 *Yasunori Tome, et al.*, Orthop. Surg., Univ. of the Ryukyus...S1446
- 2-5-FP05-12 Clinical outcome and pathology of Intraoperative extracorporeal irradiation autograft: Comparison with frozen autograft
 *Yuta Takeuchi, et al.*, Shizuoka General Hosp...S1446

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..... <i>Takeshi Morii</i> , Dept. of Orthop. Surg., Kyorin Univ...S1447 |
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- 2-5-FP06-1 Analysis of musculoskeletal tumor cases with plastic reconstruction
 *Hiroto Kamoda, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center...S1448
- 2-5-FP06-2 Identification of cancer predisposing syndromes in patients with bone and soft-tissue sarcoma by whole-genome sequence
 *Makoto Hirata, et al.*, National Cancer Center Hosp...S1448
- 2-5-FP06-3 Whole genome and transcriptome analysis of bone and soft tissue sarcomas: A preliminary study
 *Toshihide Hirai, et al.*, Div. of Molecular Pathology, National Cancer Center Research Institute...S1449
- 2-5-FP06-4 The role of comprehensive genomic profiling in sarcoma
 *Takuto Itano, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1449
- 2-5-FP06-5 Clinical significance of DNA methylation status in soft tissue sarcomas
 *Min Wook Joo, et al.*, Dept. of Orthop. Surg., St. Vincent's Hosp., College of Medicine, The Catholic Univ. of Korea, Seoul, Korea...S1450
- 2-5-FP06-6 Effects of anti-tumor agents on bone microstructure and metabolism in mice
 *Takahiro Ishizaka, et al.*, Dept. of Orthop. Surg., National Defense Medical College...S1450
- 2-5-FP06-7 Prevalence of low bone mineral density and risk of fractures in bone sarcoma survivors: A scoping review
 *Keisuke Horiuchi, et al.*, Dept. of Orthop. Surg., National Defense Medical College...S1451
- 2-5-FP06-8 Survey of drug therapy for phantom limb pain after amputation in patients of bone and soft tissue tumors
 *Takashi Ariizumi, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences...S1451
- 2-5-FP06-9 CLAP for the infection after surgery of soft tissue sarcoma: A report of two cases
 *Toshiyuki Takemori, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1452

- 2-5-FP06-10 Postoperative complications of malignant soft tissue tumors of the hip joint: Focusing on wound infection
 *Seiji Shimomura, et al.*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...S1452
- 2-5-FP06-11 Incidence and risk factors for venous thromboembolism after resection of malignant bone and soft tissue tumors
 *Yuya Izubuchi, et al.*, Dept. of Orthop. Rehabilitation Medicine, The Univ. of Fukui...S1453
- 2-5-FP06-12 Experience and challenge in the management of bone and soft tissue tumors during COVID-19 pandemic in Tochigi
 *Toru Hirozane, et al.*, Dept. of Orthop., Tochigi Cancer Center...S1453

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- 2-5-FP07-1 Clinical outcome in popliteal fossa of soft tissue sarcoma.
 *Tetsuya Hamada, et al.*, Dept. of Orthop. Surg., Kurume Univ...S1454
- 2-5-FP07-2 Clinical presentation and outcome of high-grade soft tissue sarcoma of the hand and wrist
 *Michihito Miyagi, et al.*, Shizuoka City Shizuoka Hosp...S1454
- 2-5-FP07-3 Functional outcome after surgery for malignant bone and soft tissue tumors of the hand and forearm
 *Akira Nabeshima, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1455
- 2-5-FP07-4 Risk factors of early distant metastasis after primary tumor treatment in soft tissue sarcoma
 *Hiroyuki Tsuchie, et al.*, Div. of Orthop. Surg., Akita Univ...S1455
- 2-5-FP07-5 Postoperative outcome of limb salvage surgery with *in situ* preparation technique for soft tissue tumors sarcoma
 *Ryota Yamauchi, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S1456
- 2-5-FP07-6 Change of ADC values in MRI diffusion-weighted by preoperative chemotherapy for malignant soft tissue tumors
 *Jun Iwatsu, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine...S1456
- 2-5-FP07-7 Clinical outcomes for resectable pediatric rhabdomyosarcoma of the extremity and trunk
 *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ...S1457
- 2-5-FP07-8 Secondary osteosarcoma after carbon ion radiotherapy for desmoid-type fibromatosis: A case report
 *Mizuki Aketo, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ...S1457
- 2-5-FP07-9 Anti-tumor effect and neurotoxicity of ethanol adjuvant therapy after surgery of a soft tissue sarcoma
 *Yoshitaka Ban, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine...S1458
- 2-5-FP07-10 Ultrasound-guided surgery for malignant soft tissue tumor
 *Takayuki Kawaguchi, et al.*, Dept. of Orthop. Surg., Hyogo College of Medicine...S1458
- 2-5-FP07-11 Clinicopathological features of soft tissue sarcoma by tissue of origin
 *Shintaro Iwata, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp...S1459
- 2-5-FP07-12 Clinicopathological background of local recurrence in high grade sarcoma of the extremity with preoperative chemotherapy
 *Satoshi Tsukushi, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center...S1459

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- 2-5-M05-1 Clinical features of pelvic sarcoma causing intestinal perforation
 *Akane Ariga, et al.*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR...S1460

- 2-5-M05-2 Effect of postoperative complications on the outcome of soft tissue sarcoma surgery and risk factors for complications *Taketsugu Fujibuchi, et al.*, Dept. of Bone and Joint Surg., Ehime Univ. Graduate School of Medicine...S1460
- 2-5-M05-3 Can JOA Guideline for Prevention of Surgical Site Infection be recommended for malignant bone tumor surgery? *Ikuo Fujita, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1461
- 2-5-M05-4 Novel reconstruction method by mega-prosthesis wrapped with vancomycin-containing cement after resection of malignancies *Kazuhiko Hashimoto, et al.*, Dept. of Orthop. Surg., Kindai Univ...S1461
- 2-5-M05-5 Reconstruction with treated autografts: Complications and graft survival *Naoki Takada, et al.*, Div. of Orthop. Oncology, Shizuoka Cancer Center...S1462
- 2-5-M05-6 Risk factor of wound complications in surgery of soft tissue sarcoma in adductor compartment *Koichi Okajima, et al.*, Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo...S1462

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- 2-5-FP08-1 Prediction of grade in patients with soft tissue sarcoma using SUVmax of PET-CT *Yusuke Kawabata, et al.*, Dept. of Orthop. Surg., Yokohama City Univ...S1463
- 2-5-FP08-2 Surveillance by whole-body MRI for neurofibromatosis type 1 *Mashu Futagawa, et al.*, Dept. Clin. Genomic Med., Okayama Univ. Hosp...S1463
- 2-5-FP08-3 Immune escape in lung metastasis of Leiomyosarcoma; Upregulated EpCAM expression inhibits CD8⁺ T cell migration *Masaya Kanahori, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1464
- 2-5-FP08-4 Effect of tumor-associated macrophage and CD47 on prognosis in high grade soft tissue sarcoma *Kunihiro Asanuma, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1464
- 2-5-FP08-5 Targeting AURKA pathway to induce antitumor activity against INI1-deficient epithelioid sarcoma *Akitomo Inoue, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ...S1465
- 2-5-FP08-6 Risk factors of prognostic and complication in age-group differences of elderly soft tissue sarcoma patients *Ayana Kondo, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1465
- 2-5-FP08-7 Radiation therapy in older patients with non-small round cell sarcomas at extremities *Masatake Matsuoka, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ...S1466
- 2-5-FP08-8 Treatment of soft tissue sarcoma in over 80 aged patients *Ichiro Baba, et al.*, Dept. of Orthop. Surg., Osaka Medical and Pharmaceutical Univ...S1466
- 2-5-FP08-9 Association between time to treatment initiation and prognosis in patients with soft-tissue sarcoma *Haruna Takami, et al.*, Osaka International Cancer Institute...S1467
- 2-5-FP08-10 Clinical significance of geographic factors in STS patients: To improve pre-hospital factors in sarcoma management *Toshiaki Hata, et al.*, Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1467
- 2-5-FP08-11 Does multidisciplinary therapy in sarcoma center improve the prognosis of patients with soft tissue sarcoma? *Tsukasa Yonemoto, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center...S1468
- 2-5-FP08-12 Work status of patients with soft tissue sarcoma in a single institution *Tomoya Matsunobu, et al.*, Dept. of Orthop. Surg., Kyushu Rosai Hosp...S1468

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2-6-JT07-1	Genome analyses for bone and soft tissue tumors in clinical setting <i>Yoshiyuki Suehara</i> , Kamonomiya Orthop. Clinic...S1471	
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2-6-FP09-3	A novel therapeutic predictive score on immune checkpoint inhibitors for non-small cell lung cancer with bone metastases <i>Yohei Asano, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ....S1473	
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2-6-FP09-6	Two cases of reverse shoulder arthroplasty after resection of malignant bone tumor of the proximal humerus <i>Shuntaro Wada, et al.</i> , Dept. of Orthop. Surg., Iwate Medical Univ....S1474	
2-6-FP09-7	Reconstruction with reverse shoulder arthroplasty after resection of proximal metastatic bone tumor of the humerus <i>Ryuji Nemoto, et al.</i> , Dept. of Orthop. Surg., National Defense Medical College...S1475	
2-6-FP09-8	Tumor type artificial head replacement for femoral bone metastases Prognosis and postoperative complications <i>Ryo Satake, et al.</i> , Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S1475	

- 2-6-FP09-9 Comparison between the operation cases for spinal metastasis before and after the bone metastasis support
 *Kazuto Miura, et al.*, Dept. of Spine and Spinal Cord Surg., Nagaoka Red Cross Hosp.···S1476
- 2-6-FP09-10 The clinical and educational effects of the bone metastasis board in our hospital
 *Shinichirou Yoshida, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine···S1476
- 2-5-FP09-11 Cancer related musculoskeletal disorders after cancer treatment
 *Ukei Anazawa, et al.*, Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp.···S1477
- 2-5-FP09-12 Locomotive syndrome and associated factors in cancer patients scheduled for surgery
 *Yoshimi Katayama, et al.*, Dept. of Rehabilitation Medicine, Okayama Univ. Hosp.···S1477

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- 2-6-JT09-1 Chemotherapy for bone and soft tissue sarcoma
 *Satoshi Abe*, Yoshikawa Central General Hosp.···S1478

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- 2-P13-1 A case of epithelioid sarcoma in the rib
 *Akira Yoshiyama, et al.*, Dept. of Orthop. Surg., Tokyo Medical Center···S1479
- 2-P13-2 Clear cell sarcoma of soft tissue and EWSR1 reciprocal translocation: A report of two cases
 *Chigusa Sawamura, et al.*, Saitama Cancer Center···S1479
- 2-P13-3 Favorable response to radiotherapy for brain and axillary lymph node metastases in CIC-DUX4 sarcoma
 *Kosei Ando, et al.*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science···S1480
- 2-P13-4 CIC-rearranged sarcoma of the retroperitoneum: A case report
 *Ryota Yamauchi, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine···S1480
- 2-P13-5 A case of advanced extraskeletal Ewing's sarcoma: Effectiveness of administration of TEM and IRT for maintaining QOL
 *Takashi Tajima, et al.*, Dept. of Orthop. Surg., Kyorin Univ.···S1481
- 2-P13-6 Prediagnostic surgery for Ewing sarcoma
 *Hisaki Aiba, et al.*, Dept. of Medical Oncology, National Cancer Center Hosp.···S1481
- 2-P13-7 Epidemiological survey of extraskeletal myxoid chondrosarcoma: Data from the Soft Tissue Tumor Registry of Japan
 *Akihito Nagano, et al.*, Dept. of Orthop. Surg., Gifu Univ.···S1482

13 : 45 ~ 14 : 15	Poster 14 Malignant soft tissue tumors 3	Moderator H. Kamoda
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- 2-P14-1 Effects of soft tissue sarcoma and anticancer drugs on bone metabolism in mice
 *Fumihito Kasama, et al.*, Div. of Orthop. Surg., Akita Univ.···S1483
- 2-P14-2 Optimal prognostic factors of pazopanib, eribulin, and trabectedin in metastatic and inoperable sarcomas
 *Tadashi Iwai, et al.*, Dept. of Orthop. Surg., Osaka Metropolitan Univ. Graduate School of Medicine···S1483
- 2-P14-3 Validation of relevant prognostic indicators at the start of trabectedin treatment in advanced soft tissue sarcomas
 *Chiaki Sato, et al.*, National Cancer Center Hosp.···S1484
- 2-P14-4 Efficacy of trabectedin in non-L-sarcoma
 *Chiaki Sato, et al.*, National Cancer Center Hosp.···S1484
- 2-P14-5 Are inflammatory markers predictors of Trabectedin treatment in advanced soft tissue sarcoma?
 *Hideaki Sabe, et al.*, Toyonaka Municipal Hosp.···S1485
- 2-P14-6 Trabectedin for the treatment of metastatic or unresectable soft tissue sarcoma: a retrospective single-center series
 *Sho Nakai, et al.*, Osaka International Cancer Institute ···S1485

14 : 15 ~ 14 : 45	Poster 15	Malignant soft tissue tumors 4	Moderator Y. Tanzawa
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- 2-P15-1 Sclerosing epithelioid fibrosarcoma: Report of three cases
 *Teruya Uchiyama, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality
 Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1486
- 2-P15-2 Malignant granular cell tumor in the back. A case report
 *Takashi Otsuka, et al.*, Dept. of Orthop. Surg.,
 Tokyo Dental College Ichikawa General Hosp...S1486
- 2-P15-3 A case of spontaneous regression of 'tail sign' in myxofibrosarcoma
 *Shiro Saito, et al.*, Dept. of Orthop. Surg., Nagoya City Univ.,
 Graduate School of Medical Sciences...S1487
- 2-P15-4 A case of G-CSF-producing myxofibrosarcoma in the thigh
 *Akane Yamamoto, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1487
- 2-P15-5 A case report: Myxofibrosarcoma metastasis in the left ventricle
 *Naohiro Yasuda, et al.*, National Hosp. Organization Osaka National Hosp. ...S1488
- 2-P15-6 A case of soft tissue sarcoma with disseminated metastasis that the distance between tumors
 changed by limb position
 *Katsushi Suzuki, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center...S1488

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 *Rumi Nakagawa, et al.*, Dept. of Musculoskeletal Oncology and Orthop. Surg.,
 Tochigi Cancer Center...S1489
- 2-P16-2 Clinical outcomes of soft tissue sarcoma in elderly patients
 *Yuki Mori, et al.*, Dept. of Orthop. Surg., Nishijin Hosp...S1489
- 2-P16-3 A retrospective study of the waiting time of surgery for high grade soft tissue sarcoma
 .. *Shinichirou Yoshida, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine...S1490
- 2-P16-4 A surrogacy analysis of randomized controlled trials in rhabdomyosarcoma
 *Yuta Kubota, et al.*, Dept. of Orthop. Surg., Oita Univ...S1490
- 2-P16-5 Acute arteritis after G-CSF administration
 *Masanori Tsugita, et al.*, Dept. of Orthop. Surg., Gifu Univ...S1491
- 2-P16-6 Doxorubicin dosage and clinical course in advanced bone and soft tissue sarcoma
 *Shunsuke Hamada, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center...S1491
- 2-P16-7 Outcome of gemcitabine-docetaxel combination therapy for advanced stage bone and soft tissue
 sarcoma *Yoshihiro Ito, et al.*, Div. of Orthop. Surg., Kyushu Cancer Center...S1492

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- 2-P17-1 Analysis of myxofibrosarcoma undergoing unplanned excision
 *Akiyuki Nakajima, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center...S1493
- 2-P17-2 Roles of catecholamine synthesizing pathway in cancer stem-like cells in malignant peripheral
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 *Haruyoshi Katayama, et al.*, Science of Functional Recovery and Reconstruction,
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- 2-P17-3 A case of primary retroperitoneal myxoid liposarcoma resected after chemoradiotherapy
 *Tetsuya Ogawa, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S1494
- 2-P17-4 Marginal resection following neoadjuvant radiotherapy for intermuscular myxoid liposarcoma in
 popliteal region *Yoshikazu Tanzawa, et al.*, Dept. of Orthop. Surg., Tokai Univ...S1494
- 2-P17-5 Usefulness of whole-body MRI in myxoid liposarcoma
 *Tsuyoshi Kanae, et al.*, Dept. of Orthop. Surg., Kyushu Univ...S1495

2-P17-6 Neurofibromatosis type 1-related dedifferentiated liposarcoma: A case report
*Takeo Suzuki, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ.··S1495

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- 2-P18-1 The treatment and outcomes of dedifferentiated liposarcoma in our hospital
*Ryu Terauchi, et al.*, Dept. of Orthop., Graduate School of Medical Science,
 Kyoto Prefectural Univ. of Medicine··S1496
- 2-P18-2 MRI findings to differentiate musculoskeletal dedifferentiated liposarcoma from atypical
 lipomatous tumor*Masaya Kawaguchi, et al.*, Dept. of Radiol., Gifu Univ.··S1496
- 2-P18-3 Surgical indication of recurrent retroperitoneal liposarcoma
*Toru Wakamatsu, et al.*, Osaka International Cancer Institute··S1497
- 2-P18-4 Outcome of treatment of pleomorphic rhabdomyosarcoma
*Suguru Fukushima, et al.*, National Cancer Center Hosp.··S1497
- 2-P18-5 A case of schwannoma arisen in the rectus abdominis with a malignant transformation
*Yoshiki Shirai, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.··S1498
- 2-P18-6 Sporadic malignant peripheral nerve sheath tumor of the adrenal gland: A case report
*Yoichi Kaneuchi, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ.··S1498

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- 2-P19-1 Hepatic metastases from soft tissue tumors
*Masanori Okamoto, et al.*, Dept. of Orthop. Surg., Shinshu Univ.··S1499
- 2-P19-2 Small bowel metastasis of soft tissue sarcoma diagnosed by small bowel video capsule
 endoscopy*Taisuke Matsuyama, et al.*, Dept. of Orthop. Surg., Teikyo Univ.··S1499
- 2-P19-3 Combined latissimus dorsi and scapular flap for reconstruction of a large defect after shoulder
 sarcoma resection*Akio Sakamoto, et al.*, Dept. of Orthop. and Musculoskeletal Surg.,
 Graduate School of Medicine, Kyoto Univ.··S1500
- 2-P19-4 A case of reconstruction using a reading man flap for a large defect after resection of a soft tissue
 sarcoma*Koki Shimizu, et al.*, Dept. of Orthop. Surg. Nagoya Memorial Hosp. ···S1500
- 2-P19-5 Amputation in patients with extremity soft tissue sarcoma: The experience of an East Asian
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*Yongsung Kim, et al.*, Seoul National Univ. Bundang Hosp., Gyeonggi-do, Korea··S1501
- 2-P19-6 Factors associated with physical function of short-term after limb-sparing surgery for soft-tissue
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- 2-P20-1 A case of inflammatory myofibroblastic tumor located in thigh
*Yuki Hirata, et al.*, Dept. of Orthop. Surg., Hiroshima Prefectural Hosp.··S1502
- 2-P20-2 Tenosynovial giant cell tumor around the rectus femoris tendon mimicking a bone tumor:
 A case report*Takeo Katsumori, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Hosp.··S1502
- 2-P20-3 Atypical lipomatous tumor in a 4-year-old girl: A case report
*Itaru Ogawa, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ.··S1503
- 2-P20-4 Preoperative diagnosis of atypical lipomatous tumor using cytology and molecular pathology on
 needle biopsy*Seiichi Matsumoto, et al.*, Cancer Institute Hosp. of JFCR··S1503
- 2-P20-5 Association between ADC values and size changes in desmoid tumors
*Masato Sugawara, et al.*, Dept. of Orthop. Surg., Yamagata Univ.··S1504

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2-P20-6 Imaging findings of extra-abdominal desmoid-type fibromatosis with spontaneous regression with active surveillance *Tomohisa Sakai, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S1504

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2-P21-2 Nivolumab-induced polyarthritis diagnosed with clinical symptoms and images using bone scintigraphy *Yoshihiro Araki, et al.*, Dept. of Orthop. Surg., Fukui Prefectural Hosp. ...S1505

2-P21-3 Infectious gossypiboma by retained surgical sponge in the buttock mimicking chronic expanding hematoma. A case report *Keita Watanabe, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1506

2-P21-4 Hyperbaric oxygen therapy successfully treated for infection around the hip joint after resection of soft tissue sarcoma *Hiroaki Kimura, et al.*, Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences ...S1506

2-P21-5 A case of megaprosthesis infection after osteosarcoma controlled by continuous local antibiotics perfusion (CLAP) *Daisuke Himeno, et al.*, Chiba Emergency Medical Center ...S1507

2-P21-6 Two cases of hip disarticulation preserving soft tissue for chronic infection of the distal femoral tumor prosthesis *Tsuyoshi Mizuma, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1507

2-P21-7 Changes in visceral fat area and liver volume after adjuvant chemotherapy in the trunk and the extremities sarcoma *Akira Maekawa, et al.*, Kyushu Rosai Hosp. ...S1508

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2-P22-1 Application of intraoperative MRI to bone and soft tissue tumor surgery at our hospital *Taisuke Furuta, et al.*, Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ. ...S1509

2-P22-2 Risk factors of osteoporotic thoracolumbar vertebral fractures in cancer rehabilitation patients *Yutaro Ishikawa, et al.*, Dept. of Orthop. Oncol., Saitama Cancer Center ...S1509

2-P22-3 Treatment and outcome of total en bloc spondylectomy for spine tumor: Single institution case series *Naofumi Asano, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1510

2-P22-4 Oncologic outcomes and prognosis factors on amputation for sarcoma *Norio Kurosawa, et al.*, Dept. of Orthop. Oncology, Cancer Institute Hosp. of JFCR ...S1510

2-P22-5 Fertility preservation in adolescent and young adult patients with bone and soft tissue tumors in our department *Kensaku Yamaga, et al.*, Dept. of Orthop. Surg., Tottori Univ. ...S1511

2-P22-6 Positive diagnostic rates of echo-guided needle biopsy for soft tissue tumors *Hiroataka Ogi, et al.*, Dept. of Orthop. Surg., Shizuoka City Shizuoka Hosp. ...S1511

2-P22-7 Impact of primary tumor resection on lung metastasis and prognosis in patients with bone and soft tissue sarcoma *Hiroyuki Tsuchie, et al.*, Div. of Orthop. Surg., Akita Univ. ...S1512

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2-P23-1 Preoperative administration of denosumab for soft tissue recurrence of giant cell tumor of bone, a case report *Masami Hosaka, et al.*, Dept. of Orthop. Surg., Miyagi Cancer Center ...S1513

2-P23-2 Atypical femoral fracture in a multiple myeloma patient after treatment with denosumab *Yasuyuki Omichi, et al.*, Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School ...S1513

2-P23-3 Approach for bone tumors of femoral head *Akihiro Daisaku, et al.*, Dept. of Orthop. Surg., Kurume Univ. ...S1514

2-P23-4 Abductor reconstruction by trochanteric slide method in patient with proximal femur megaprosthesis *Shintaro Inoue, et al.*, Dept. of Orthop. Oncol., Saitama Cancer Center ...S1514

- 2-P23-5 Evaluation of soft tissue integration in megaprosthesis
*Kunihiro Asanuma, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1515
- 2-P23-6 The outcome of surgical treatment using in situ preparation method for sarcoma
*Toshihiko Nishisho, et al.*, Dept. of Orthop., Institute of Biomedical Sciences,
 Tokushima Univ. Graduate School...S1515

16 : 00 ~ 16 : 35	Poster 24 Education, registration and others	Moderator M. Miyagi
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- 2-P24-1 Bone and soft tissue sarcomas related with Li-Fraumeni syndrome
*Yu Toda, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp...S1516
- 2-P24-2 The impact of novel coronavirus disease-19 for musculoskeletal tumor treatment in our
 department*Takahiro Tajino*, Southern Tohoku Fukushima Hosp...S1516
- 2-P24-3 Results of cancer education by outside lecturers in Nagano Prefecture
*Kaoru Aoki, et al.*, Dept. of Physic. Ther., Shinshu Univ...S1517
- 2-P24-4 Role of orthopaedic surgery in rare cancer treatment: Retrospective study from in-hospital cancer
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- 2-P24-5 Our team's strategy for the patients with cancer locomotive syndrome type 3
*Tatsunobu Kobayashi, et al.*, Dept. of Orthop. Rehabilitation Medicine, The Univ. of Fukui...S1518
- 2-P24-6 Patient and public involvement in research for bone and soft tissue tumor
*Shintaro Iwata, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp...S1518
- 2-P24-7 Profitability of bone and soft tissue tumor care in orthopaedic clinic
*Hidetatsu Otani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ...S1519

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