

The 57th Annual Musculoskeletal Tumor Meeting of the Japanese Orthopaedic Association

Held in Fukui, July 11 and 12, 2024

On-demand sessions: August 19 - September 23, 2024

Congress President, Akihiko Matsumine

Department of Orthopaedics and Rehabilitation Medicine, Unit of Surgery,

Division of Medicine, Faculty of Medical Sciences, University of Fukui

1st Day July 11 Room 1

8 : 00 ~ 9 : 50 **Symposium 1** **Moderators A. Kawai, H. Hiraga**
Accelerating genomic medicine for bone and soft tissue tumors: Current status and challenges

- 1-1-SY1-1 RNA panel plays a role in a new era in bone and soft tissue tumor diagnosis
 *Harumi Nakamura, et al.*, Osaka International Cancer Institute...S1455
- 1-1-SY1-2 How to utilize GenMine TOP in sarcoma treatment
 *Hiroshi Kobayashi*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S1455
- 1-1-SY1-3 Utilization and application of CGP data in bone and soft tissue sarcoma
 *Koichi Ogura, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp....S1456
- 1-1-SY1-4 Comparison of tumor microenvironment between young and old patients by RNA-seq
 *Akane Ariga, et al.*, Dept. of Orthop. and Spinal Surg.,
 Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ....S1456
- 1-1-SY1-5 Proteogenomic analysis of bone and soft tissue tumors
 *Shuhei Iwata, et al.*, Div. of Rare Cancer Research,
 National Cancer Center Research Institute...S1457
- 1-1-SY1-6 The utility of clinical sequence by cancer genome panel in the treatment of bone and soft
 tissue tumor *Eiji Nakata, et al.*, Dept. of Orthop. Surg.,
 Science of Functional Recovery and Reconstruction, Faculty of Medicine,
 Dentistry, and Pharmaceutical Sciences, Okayama Univ....S1457

10 : 00 ~ 12 : 10 **Symposium 2** **Moderators A. Kawai, H. Minami**
Sarcoma treatment across departments: Practicalities and challenges

- 1-1-SY2-1 Progress in multidisciplinary sarcoma treatment and research: Loneliness and elation as
 orthopaedic oncologists
 *Yoshihiro Nishida, et al.*, Dept. of Rehabilitation, Nagoya Univ. Hosp....S1458
- 1-1-SY2-2 Retroperitoneal sarcoma and urologic organ sarcomas: Practices and challenges
 *Hiroyuki Nishiyama*, Dept. of Urol. Tsukuba Univ....S1458
- 1-1-SY2-3 Practical treatment of uterine sarcoma and its challenges
 *Kosei Hasegawa*, Dept. of Gyne. Oncology, Saitama International Medical Center,
 Saitama Medical Univ....S1459
- 1-1-SY2-4 Multidisciplinary surgical approach to retroperitoneal sarcoma
 *Yukihiro Yokoyama*, Nagoya Univ., Dept. of Surg....S1459
- 1-1-SY2-5 Medical therapy for sarcoma: Current status and future prospects
 *Masashi Ando*, Aichi Cancer Center...S1460
- 1-1-SY2-6 Multidisciplinary collaboration in the JCCG rhabdomyosarcoma clinical study:
 Central diagnosis and consultation *Atsushi Ogawa*, Niigata Cancer Center Hosp....S1460

12 : 30 ~ 13 : 30 Luncheon seminar 1

Moderator K. Honoki

Hypophosphatasia “Must Rule Out disease when low ALP levels are accompanied by systemic symptoms such as pain and motor dysfunction”

- 1-1-LS1-1 Dental symptoms and support in adult HPP
.....*Hiroyuki Nakamura*, Dept. of Oral and Maxillofacial Surg. Univ. of the Ryukyus Hosp.··S1461
- 1-1-LS1-2 Adult hypophosphatasia
.....*Junichi Fukushi*, Dept. of Orthop. Surg. and Rheumatology, Kyushu Medical Center··S1461

13 : 40 ~ 14 : 40 Special lecture 1

Moderator H. Yoshikawa

- 1-1-SL1-1 New idea drawn from history of bone and soft tissue sarcomas
.....*Atsumasa Uchida*, Dept. of Orthop. Surg., Mie Univ.··S1462

14 : 50 ~ 16 : 50 Panel discussion 1

Moderators Y. Nishida, H. Kawashima

New developments in basic research on bone and soft tissue tumors

- 1-1-PD1-1 Emerging trends in genomic research of bone and soft tissue tumors: Toward clinical implementation of whole genome analysis
.....*Makoto Hirata*, Dept. of Genet. Med.& Services, National Cancer Center Hosp.··S1463
- 1-1-PD1-2 Development of novel treatment modalities for bone and soft-tissue sarcomas
.....*Tomohiro Fujiwara, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.··S1463
- 1-1-PD1-3 Targeting epigenomics in soft tissue sarcoma
.....*Hidetatsu Otani, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ.··S1464
- 1-1-PD1-4 Elucidation of molecular mechanisms of the first stage of synovial sarcoma development for drug discovery
.....*Kenji Iwasaki*, Univ. of Tsukuba/TARA··S1464
- 1-1-PD1-5 Photodynamic therapy using 5-aminolevulinic acid may be effective in bone and soft tissue sarcoma
.....*Ryohei Adachi, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine··S1465
- 1-1-PD1-6 Role of immune cells in bone and soft tissue tumor
.....*Naoki Oike, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences··S1465
- 1-1-PD1-7 Investigating the tumor microenvironment and genetic profile of infiltrative soft tissue sarcoma
.....*Akane Ariga, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ.··S1466

1st Day July 11 Room 2

8 : 00 ~ 9 : 00 Educational lecture 1

Moderator T. Nojima

- 1-2-EL1-1 Pathology of lipomatous tumors
.....*Mana Fukushima*, Dept. of Tumor Pathol., Univ. of Fukui··S1467

9 : 10 ~ 10 : 10 Invited lecture 1

Moderator E. Konishi

- 1-2-IL1-1 Development of pharmacological inhibitors of the TAZ-YAP-TEAD Hippo pathway
.....*Brian P. Rubin*, Cleveland Clinic, Cleveland, OH, USA··S1467

10 : 20 ~ 11 : 20 Invited lecture 2 Moderator Y. Oda

1-2-IL2-1 Tumor microenvironment analysis in osteosarcoma predicts therapeutic response to chemotherapy ... *Anne Gomez-Mascard, et al.*, Institut Universitaire du Cancer de Toulouse, Toulouse, France...S1468

12 : 30 ~ 13 : 30 Luncheon seminar 2 Moderator A. Ogose

1-2-LS2-1 Diagnostic error in bone and soft tissue tumor: Differentiation from osteoporotic fracture *Toshiharu Shirai*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...S1469

13 : 40 ~ 15 : 50 Bone Tumor Club Moderators K. Yamashita, Y. Izubuchi

1-2-BTC-1 Bone tumor of left Vth rib *Hiroaki Kanda, et al.*, Dept. Path. Saitama Cancer Center...S1470

1-2-BTC-2 Soft tissue tumor of left foot joint *Yuko Kakuda, et al.*, Div. of Pathol., Shizuoka Cancer Center...S1470

1-2-BTC-3 Bone tumor of the left proximal femur *Yoshihiro Araki, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ...S1471

Moderators H. Kanda, Y. Watanabe

1-2-BTC-4 A case of soft tissue tumor arising in the lower leg *Yoshiya Sugiura, et al.*, Dept. of Pathol., Toho Univ. (Sakura)...S1471

1-2-BTC-5 A case of soft tissue tumor arising on the posterior region of right thigh *Aina Yamaguchi, et al.*, Div. Diagn. Pathol./Surg. Pathol., Univ. of Fukui...S1472

16 : 00 ~ 17 : 00 Afternoon seminar 1 Moderator K. Hiraoka

1-2-AS1-1 Pros and cons of biological reconstruction *Katsuhiko Hayashi*, Dept. of Orthop. Surg., Kanazawa Univ. Hosp./ Div. of Health Sciences, Graduate School of Medical Sciences, Kanazawa Univ...S1473

17 : 10 ~ 19 : 00 Clinicopathologic conference Moderators M. Fukushima, E. Konishi, K. Nakanishi, T. Tanaka

1-2-CR-1 Right ankle tumor *Sakura Shiraishi, et al.*, Dept. of Anatomic Pathology, Pathological Sciences, Graduate School of Medical Sciences, Kyushu Univ...S1474

1-2-CR-2 Abscopal effect following proton beam radiotherapy for recurrent dedifferentiated chondrosarcoma: A case report *Michiyuki Hakozaki, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ...S1474

1-2-CR-3 The tumor around left ulna: A case report *Tomohisa Sakai, et al.*, Rare Cancer Center, Nagoya Univ. Hosp...S1475

1-2-CR-4 A case of soft tissue tumor of the shoulder *Masayuki Morishita, et al.*, Dept. of Orthop. Surg., Kobe Children's Hosp...S1475

1st Day July 11 Room 3

8 : 00 ~ 9 : 00 Educational lecture 2 Moderator H. Tsuchiya

1-3-EL2-1 Onco-orthopaedics: A novel field for musculoskeletal oncologists to thrive *Hiroataka Kawano*, Dept. of Orthop. Surg., Teikyo Univ...S1476

9 : 10 ~ 11 : 20 Symposium 3

Moderators H. Katagiri, Y. Matsumoto

Solving multivariable functions for bone metastasis treatment

- 1-3-SY3-1 Update of new Katagiri score and its clinical applications
..... *Hirohisa Katagiri, et al.*, Dept. of Orthop. Surg., Shizuoka Cancer Center...S1477
- 1-3-SY3-2 The changes in the treatment for bone metastases over the past 20 years
..... *Naoki Takada, et al.*, Dept. of Orthop. Surg., Shizuoka Cancer Center...S1477
- 1-3-SY3-3 Does re-ossification after palliative radiotherapy for spinal bone metastases help maintain
vertebral body height? *Munehisa Kito, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1478
- 1-3-SY3-4 The relationship between frailty, nutritional status and PS, prognosis in the palliative surgery
for spinal metastasis
..... *Kazuto Miura, et al.*, Dept. of Spine and Spinal Cord Surg., Nagaoka Red Cross Hosp...S1478
- 1-3-SY3-5 Surgical outcomes and characteristics of cervical metastasis in metastatic spinal tumors
..... *Ukei Anazawa, et al.*, Dept. of Orthop. Surg.,
Tokyo Dental College Ichikawa General Hosp...S1479
- 1-3-SY3-6 Repeated surgery after tumor resection and reconstruction for metastatic bone tumors in
the extremities *Shinji Miwa, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medical Sciences, Kanazawa Univ...S1479
- 1-3-SY3-7 Surgical management of peri-acetabular metastases including classical method to minimal
invasive surgery *Jungo Imanishi, et al.*, Dept. of Orthop. Surg., Teikyo Univ...S1480

12 : 30 ~ 13 : 30 Luncheon seminar 3

Moderator K. Ae

- 1-3-LS3-1 Surgical techniques of lower limb reconstruction using tumor megaprosthesis: Tips & pitfalls
..... *Eisuke Kobayashi*, Dept. of Musculoskeletal Oncology and Rehabilitation,
National Cancer Center Hosp...S1481

13 : 40 ~ 15 : 20 Panel discussion 2

Moderators J. Nishida, K. Honoki

Reconstruction for malignant bone and soft-tissue tumors of the humerus

- 1-3-PD2-1 Clavícula pro humero reconstruction after wide resection of the proximal humerus
..... *Satoshi Tsukushi, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center...S1482
- 1-3-PD2-2 Clinical outcome of reconstruction using frozen autograft for humeral malignant bone tumors
..... *Katsuhiko Hayashi, et al.*, Dept. of Orthop. Surg.,
Graduate School of Medical Sciences, Kanazawa Univ...S1482
- 1-3-PD2-3 Development and efficacy of a custom-made artificial diaphysis for humeral metastatic bone
tumors for good upper limb function
..... *Taketoshi Yasuda, et al.*, Dept. of Orthop. Surg., Faculty of Medicine, Univ. of Toyama...S1483
- 1-3-PD2-4 2 cases of total humeral replacement with reverse and non-reverse shoulder arthroplasty
..... *Kunihiro Asanuma, et al.*, Dept. of Musculoskeletal Surg.,
Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1483
- 1-3-PD2-5 Proximal humerus reconstruction after tumor resection
..... *Yoshikuni Mimata, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ...S1484
- 1-3-PD2-6 Reconstruction after resection of malignant bone tumor of the proximal humerus
..... *Michiro Susa, et al.*, Dept. of Orthop. Surg., National Defense Medical College...S1484

15 : 30 ~ 17 : 00 Symposium 4

Moderators H. Morioka, A. Ogose

The next step in sarcoma treatment

- 1-3-SY4-1 Innovation and translational research of oncolytic virotherapy for musculoskeletal sarcoma
using Surv.m-CRA-1 *Satoshi Nagano, et al.*, Dept. of Phys Ther, Sch of Health Sci,
Faculty of Med, Kagoshima Univ...S1485

- 1-3-SY4-2 Genetically modified T-cell therapy targeting cancer/testis antigen: Expectations for sarcoma treatment
 *Mikiya Ishihara*, Dept. of Med. Oncol., Osaka International Cancer Institute...S1485
- 1-3-SY4-3 CAR-T cell therapy for synovial sarcoma
 *Tomohiro Miyazaki, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences...S1486
- 1-3-SY4-4 The future of Immunotherapy for sarcoma
 *Tomohide Tsukahara, et al.*, Dept. of Pathology, Sapporo Medical Univ...S1486
- 1-3-SY4-5 Potentiality of boron neutron capture therapy (BNCT) for bone invasion of cancer
 *Takuya Fujimoto, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1487
- 1-3-SY4-6 Efficacy of radiofrequency ablation for oligometastases of bone and soft tissue sarcoma: Case series *Kenji Sato, et al.*, Dept. of Orthop. Surg., Teikyo Univ...S1487

1st Day July 11 Room 4

8 : 00 ~ 9 : 00	Main program 1	Moderators S. Shimose, K. Asanuma
Diagnosis of bone and soft-tissue tumors		

- 1-4-MO1-1 Increasing proportion of elderly patients in malignant soft tissue tumor surgeries over the Past 30 years
 *Norio Kurosawa, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR...S1488
- 1-4-MO1-2 Accuracy of CT-guided core-needle biopsy in diagnosis of bone and soft tissue lesions
 *Tomoya Matsunobu, et al.*, Dept. of Orthop. Surg., Kyushu Rosai Hosp...S1488
- 1-4-MO1-3 Characteristics and clinical course of soft tissue sarcoma with intra-tumoral hematoma
 *Tomohisa Sakai, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ...S1489
- 1-4-MO1-4 PET/MRI-based differentiation between atypical lipomatous tumor and dedifferentiated liposarcoma
 *Itaru Ogawa, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ...S1489
- 1-4-MO1-5★ A new deep learning algorithm for detecting spinal metastases on CT images
 *Masataka Motohashi, et al.*, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ...S1490
- 1-4-MO1-6★ Normal knee X-ray image generation using conditional generative adversarial network (cGAN) *Nguyen Hoan, et al.*, Japan Cash Machine CO., LTD...S1490

9 : 10 ~ 10 : 10	Educational lecture 3	Moderator T. Torigoe
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- 1-4-EL3-1 Standard systemic therapy and clinical genomic profiling testing for bone and soft tissue sarcomas *Yoshinori Imamura*, Cancer Care Promotion Center/ Dept. of Hematology and Oncology, Univ. of Fukui ...S1491

10 : 20 ~ 11 : 20	Educational lecture 4	Moderator T. Kunisada
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- 1-4-EL4-1 The insight of bone and soft tissue tumor surgery, its principles and ingenuity
 *Keisuke Ae, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR...S1491

12 : 30 ~ 13 : 30	Luncheon seminar 4	Moderator Y. Nishida
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- 1-4-LS4-1 Endoprosthetic reconstructions after musculoskeletal tumor resection
 *Robert Nakayama*, Dept. of Orthop. Surg., Keio Univ...S1492

13 : 40 ~ 14 : 40 Educational lecture 5

Moderator K. Tanaka

- 1-4-EL5-1 Development of CART therapy for solid tumor
..... *Yoshihiro Miyahara*, Dept. of Perso. Ca. Immuno,
Mie Univ. Graduate School of Medicine...S1493

14 : 50 ~ 15 : 50 Educational lecture 6

Moderator N. Araki

- 1-4-EL6-1 Current status and future prospects of carbon ion radiotherapy *Reiko Imai*, QST Hosp...S1493

16 : 00 ~ 17 : 00 Afternoon seminar 2

Moderator K. Tanaka

- 1-4-AS2-1 The arrival of the genomic era: What kind of medical care should we aim for?
..... *Eiji Nakata*, Dept. of Musculoskeletal Traumatology, Faculty of Medicine,
Dentistry, and Pharmaceutical Sciences, Okayama Univ...S1493

1st Day July 11 Room 5

8 : 00 ~ 9 : 00 Main program 2

Moderators T. Hiruma, T. Nakamura

Treatment strategies for malignant bone and soft tissue tumors in the very elderly

- 1-5-MO2-1 Clinical outcomes of patients with primary malignant bone and soft tissue tumors aged
80 years or older
..... *Kazuhiko Hashimoto, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine...S1494
- 1-5-MO2-2 Wide excision alone for super elderly patients aged > 80 years old with soft-tissue sarcoma
..... *Yasunori Tome, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus...S1494
- 1-5-MO2-3 Current management and outcome of bone and soft tissue sarcoma among the oldest-old
..... *Masanori Okamoto, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1495
- 1-5-MO2-4 Risk factors for postoperative complications after resection of soft tissue sarcoma in
elderly patients
..... *Norio Kurosawa, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR...S1495
- 1-5-MO2-5 Clinical outcomes in elderly patients over 80 years with soft tissue sarcomas
..... *Hideki Nishimura, et al.*, Dept. of Orthop. Surg., Kagawa Univ...S1496
- 1-5-MO2-6 Surgical outcomes of soft tissue sarcoma in the super-elderly patients
..... *Ryu Terauchi, et al.*, Dept. of Orthop. Graduate School of Medical Science,
Kyoto Prefectural Univ. of Medicine...S1496

9 : 10 ~ 10 : 30 Main program 3

Moderators K. Okada, T. Gokita

Diagnosis and treatment of "intermediate" category of lesions

- 1-5-MO3-1 Refractory cases with desmoid tumors: Real world evidence in a single institution
..... *Yoshihiro Nishida, et al.*, Dept. of Rehabilitation, Nagoya Univ. Hosp...S1497
- 1-5-MO3-2 Clinical outcome of patients with extra-abdominal desmoid fibromatosis
..... *Keisuke Masada, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1497
- 1-5-MO3-3 The role of tartrate-resistant acid phosphatase-5b in the differential diagnosis of bone and
soft tissue tumors
..... *Seiichi Matsumoto, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR...S1498
- 1-5-MO3-4 TRACP-5b as a biomarker for long-term denosumab treatment of unresectable giant cell
tumor of bone *Shigeki Kakunaga, et al.*, Osaka International Cancer Institute...S1498
- 1-5-MO3-5 Neoadjuvant single-dose denosumab for surgical curettage to giant cell tumor of bone
..... *Hiroaki Kimura, et al.*, Dept. of Orthop. Surg., Nagoya City Univ.,
Graduate School of Medical Sciences...S1499

- 1-5-MO3-6 Giant cell tumor of bone with secondary aneurysmal bone cysts does not have a higher risk of local recurrence *Shinji Tsukamoto, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S1499
- 1-5-MO3-7 Epithelioid hemangioma of bone harboring FOS and FOSB gene rearrangements: A clinical and molecular study *Yusuke Tsuda, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo ...S1500
- 1-5-MO3-8 Analysis of dedifferentiation rates in atypical lipomatous tumor/ Well differentiated liposarcoma *Masatake Matsuoka, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S1500

10 : 40 ~ 11 : 40	Main program 4	Moderators Y. Shinoda, Y. Yoshida
Cancer locomotive syndrome		

- 1-5-MO4-1 Impact of general and functional status to survival outcome and complication in patients with soft-tissue sarcoma *Ayana Kondo, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ. ...S1501
- 1-5-MO4-2 A study of locomotor comorbidity in perioperative cancer patients *Yoshimi Katayama, et al.*, Central Rehabilitation Service, Okayama Univ. Hosp. ...S1501
- 1-5-MO4-3 Severe locomotive syndrome may cause sarcopenia in cancer patients *Masahiro Hirahata, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1502
- 1-5-MO4-4 Physical activity and quality of life in patients with metastatic bone tumors treated with surgery and rehabilitation ... *Natsuko Fukuoka, et al.*, Dept. of Orthop. Surg., Kagawa Univ. ...S1502
- 1-5-MO4-5 Initiatives against osteoporosis in cancer patients: Enhancing quality of life and cancer treatment outcomes ... *Nokitaka Setsu, et al.*, Dept. of Orthop. Surg., Kyushu Cancer Center ...S1503
- 1-5-MO4-6 Considering cancer locomotive syndrome and osteoporosis through the prescription of thoracolumbar soft brace *Hirota Koyanagi, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center ...S1503

12 : 30 ~ 13 : 30	Luncheon seminar 5	Moderator T. Yonemoto
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- 1-5-LS5-1 The role and management of trabectedin in the treatment of malignant soft tissue tumors *Satoshi Takenaka*, Musculoskeletal Oncology Service, Osaka International Cancer Institute ...S1504

13 : 40 ~ 14 : 40	Main program 5	Moderators S. Abe, T. Shirai
Long-term results of tumor prostheses and handling of infections		

- 1-5-MO5-1 Clinical outcome in patients with soft tissue sarcoma receiving prosthetic replacement at the lower extremities *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S1505
- 1-5-MO5-2 Long-term results after endoprosthetic replacement for musculoskeletal tumors: Complications and their treatment *Hiroshi Hatano, et al.*, Niigata Cancer Center Hosp. ...S1505
- 1-5-MO5-3 A study of tumor prosthesis with compress-type compressive osseointegration ... *Naomasa Fukase, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1506
- 1-5-MO5-4 Clinical feature and treatment for periprosthetic infection after endoprosthetic replacement in musculoskeletal tumor *Tetsuro Yamagishi, et al.*, Niigata Cancer Center Hosp. ...S1506
- 1-5-MO5-5 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. Faculty of Medicine ...S1507

- 1-5-MO5-6 Two-stage revision surgery using compressive endoprosthetic osseointegration fixation for megaprosthesis joint infection
 *Taisuke Matsuyama, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1507

14 : 50 ~ 15 : 40	Main program 6	Moderators N. Yamamoto, E. Nakata
Treatment of pelvic, retroperitoneal and spinal tumors		

- 1-5-MO6-1 Is sarculator useful in predicting prognosis of retroperitoneal sarcoma?
 *Akira Shiga, et al.*, Kanagawa Cancer Center, Musculoskeletal Surg. ...S1508
- 1-5-MO6-2 Surgical outcomes of pelvic chondrosarcoma with a focus on activities of daily living (ADL)
 *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ. ...S1508
- 1-5-MO6-3 Multi-disciplinary approach for borderline resectable or unresectable
 de-differentiated liposarcomas *Akiko Sakai, et al.*, Dept. of Orthop. Surg., Teikyo Univ. ...S1509
- 1-5-MO6-4★ Postoperative pelvic ring deformity in patients with pelvic malignancy surgery and its effect
 on functional ability
 *Masanori Saito, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR ...S1509
- 1-5-MO6-5 Surgical treatment of spinal or paraspinal malignant tumor
 *Naofumi Asano, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1510

15 : 50 ~ 16 : 50	Main program 7	Moderators H. Futani, S. Tsukushi
Multidisciplinary treatment for recurrent sarcoma		

- 1-5-MO7-1 The prognostic potential of fusion gene analysis using plasma cell-free RNA in malignant
 bone and soft tissue tumors *Naoki Furukawa, et al.*, Dept. of Orthop., Juntendo Univ. ...S1511
- 1-5-MO7-2 Preoperative PET/MRI findings for the planning of additional wide resection of soft tissue
 sarcomas: How useful is it?
 *Michiyuki Hakozaki, et al.*, Higashi-Shirakawa Orthop. Academy,
 Fukushima Medical Univ. ...S1511
- 1-5-MO7-3 Therapeutic strategies to obtain higher local control of sacral chordoma
 *Takao Mochizuki, et al.*, Jichi Medical Univ. Saitama Medical Center ...S1512
- 1-5-MO7-4★ BRAF mutations and concurrent alterations in patients with soft tissue sarcoma
 *Hiroshi Kobayashi, et al.*, Dept. of Orthop. Surg.,
 The Univ. of Tokyo Hosp., The Univ. of Tokyo ...S1512
- 1-5-MO7-5 Real world data on secondary treatment for advanced soft tissue sarcoma
 *Yutaka Nezu, et al.*, Kanagawa Cancer Center, Musculoskeletal Surg. ...S1513
- 1-5-MO7-6 Histological assessment of synovial sarcoma before and after TCR-T cell therapy
 *Kunihiro Asanuma, et al.*, Dept. of Orthop. Surg., Mie Univ. ...S1513

1st Day July 11 Room 6

8 : 00 ~ 9 : 05	Free paper 1	Moderators T. Tajino, K. Ikuta
Improved surgical resection methods and outcomes		

- 1-6-FP1-1 Diagnosis and treatment of soft tissue tumors less than 3 cm
 *Yasuo Yoshimura, et al.*, Shinshu Ueda Medical Center ...S1514
- 1-6-FP1-2 Treatment for dedifferentiated liposarcoma
 *Keiko Hayakawa, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR ...S1514

1-6-FP1-3	Clinical results of preoperative 50.4 Gy radiotherapy combined wide resection for soft tissue sarcoma <i>Tomoaki Torigoe, et al.</i> , Dept. of Orthop. Oncology and Surg., Saitama International Medical Center, Saitama Medical Univ.S1515
1-6-FP1-4	Treatment results of malignant bone and soft tissue tumors arising in the shoulder girdle <i>Kojiro Yoshikawa, et al.</i> , Tokyo Medical Univ. Hosp.S1515
1-6-FP1-5	The utility of the new vessel sealing system in surgery for malignant soft tissue tumors <i>Yoshitaka Ban, et al.</i> , Osaka City Juso Hosp.S1516
1-6-FP1-6	Treatment experience with ceramic spacers for malignant bone tumors in children <i>Takaya Funada, et al.</i> , Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.S1516
1-6-FP1-7	Post-operative complications after hip disarticulation for bone and soft tissue tumors: A retrospective study <i>Shudai Muramatsu, et al.</i> , Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.S1517
1-6-FP1-8	Risk factors for functional deterioration after resection of soft-tissue sarcoma of the lower leg <i>Takuto Itano, et al.</i> , Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.S1517

9 : 20 ~ 10 : 35	Free paper 2 Reconstruction method	Moderators H. Yamada, T. Matsunobu
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1-6-FP2-1	Function and complications after autologous limb-salvage therapy for sarcoma of bone <i>Hiromasa Fujii, et al.</i> , Dept. of Orthop. Surg., Nara Medical Univ.S1518
1-6-FP2-2	Outcomes of reconstruction using free vascularized fibular graft after resection of sarcoma in the lower extremity ... <i>Yu Toda, et al.</i> , Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.S1518
1-6-FP2-3	Three cases of osteosarcoma that requested treatment from overseas <i>Tomohiro Aoyama, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.S1519
1-6-FP2-4	Outcomes of tibia turn-up plasty for oncologic management: A series of four cases in a single tertiary institution <i>Daniela Carolino, et al.</i> , Shizuoka Cancer CenterS1519
1-6-FP2-5	Treatment outcome of sarcoma surgery with free-flap <i>Suguru Fukushima, et al.</i> , Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.S1520
1-6-FP2-6	Mathematical analysis in golden ratio flap designed using the golden ratio rectangle <i>Akio Sakamoto, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ.S1520
1-6-FP2-7	Experience in multidisciplinary collaborative surgery for malignant tumor arising from the chest wall <i>Masami Hosaka, et al.</i> , Dept. of Orthop. Surg., Miyagi Cancer CenterS1521
1-6-FP2-8	Our recent experience in treatment of chondrosarcoma arising in the chest wall <i>Yuichi Ichikawa, et al.</i> , Dept. of Orthop. Surg., Tokyo Medical Univ.S1521
1-6-FP2-9	Outcome after resection of chest wall malignancy <i>Daiki Taruta, et al.</i> , Dept. of Orthop. Surg., Shinshu Univ.S1522

10 : 50 ~ 11 : 50	Free paper 3 Basic research 1	Moderators F. Nakatani, K. Horiuchi
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1-6-FP3-1★	<i>DDIT3</i> -amplified sarcomas without <i>MDM2</i> amplification: clinicopathological and immunohistochemical review of 10 cases <i>Taro Mori, et al.</i> , Dept. of Anatomic Pathology, Pathological Sciences, Graduate School of Medical Sciences, Kyushu Univ.S1523
1-6-FP3-2	Doxorubicin irreversibly impairs skeletal muscle regeneration <i>Shinya Kondo, et al.</i> , Dept. of Orthop. Surg., National Defense Medical College.S1523

1-6-FP3-3	Development of a novel osteosarcoma treatment using doxorubichin prodrug <i>Koki Yoshioka, et al.</i> , Dept. of Orthop. Surg., Graduate School of Biomedical and Health Sciences, Hiroshima Univ.···S1524
1-6-FP3-4	Evaluation of the anti-tumor effect of high hydrostatic pressure using rabbit squamous cell carcinoma <i>Satoshi Nagatani, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.···S1524
1-6-FP3-5	Effect on bone metastasis in renal cell carcinoma with acridine orange and zoledronic acid <i>Keita Oya, et al.</i> , Dept. of Orthop. Surg., Akita Univ. Hosp.···S1525
1-6-FP3-6	A study of effectiveness of cryo-chemotherapy for bone metastasis of lung cancer <i>Toru Udaka, et al.</i> , Dept. of Orthop. Surg., Kyorin Univ.···S1525
1-6-FP3-7	Development of an optimal method for detecting GNAS gene mutations in intramuscular myxoma <i>Munehisa Kito, et al.</i> , Dept. of Orthop. Surg., Shinshu Univ.···S1526

13 : 40 ~ 14 : 30	Free paper 4 Basic research 2	Moderators H. Outani, K. Ogura
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1-6-FP4-1★	Establishment and characterization of organoids from human chondrosarcoma <i>Toru Wakamatsu, et al.</i> , Osaka International Cancer Institute···S1527
1-6-FP4-2	Characterization of slow-cycling-cells in Ewing sarcoma <i>Yuta Nakamatsu, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine···S1527
1-6-FP4-3	Roles of SPRR1A in tumorigenesis of osteosarcoma: A study using newly generated artificial cancer stem cells <i>Tomohiro Miyamoto, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine···S1528
1-6-FP4-4	Role of EWSR1/ATF1 fusion gene and exploration of therapeutic targets using genetically modified clear cell sarcoma mice <i>Nobuhiko Hasegawa, et al.</i> , Dept. of Orthop., Juntendo Univ.···S1528
1-6-FP4-5	Analysis of tumor proliferation through the expression control of GSK-3b and Fbxw7 in Ewing's sarcoma cell lines <i>Masanori Kawano, et al.</i> , Dept. of Orthop. Surg., Oita Univ.···S1529
1-6-FP4-6★	A novel mechanism of malignant transformation through interaction between PRRX1 and TOP2A in MPNSTs <i>Shota Takihira, et al.</i> , Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.···S1529

14 : 50 ~ 15 : 40	Free paper 5 Cancer locomotive syndrome	Moderators A. Kido, M. Hatori
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1-6-FP5-1	Outcomes of treatment of soft tissue sarcomas in our sarcoma center <i>Tsukasa Yonemoto, et al.</i> , Dept. of Orthop. Surg., Chiba Cancer Center···S1530
1-6-FP5-2	Investigation of novel index as a useful prognostic factor in resectable soft-tissue sarcomas <i>Seiji Shimomura, et al.</i> , Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine···S1530
1-6-FP5-3★	Preoperative muscle mass correlates with the prognosis in elderly patients with bone and soft tissue sarcoma <i>Yu Toda, et al.</i> , Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.···S1531
1-6-FP5-4	Association of muscle volume with survival in high grade osteosarcoma in extremity <i>Hironari Tamiya, et al.</i> , Osaka International Cancer Institute···S1531
1-6-FP5-5★	Frailty as a prognostic factor for survival in the elderly patients with spinal metastases <i>Yutaro Kanda, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine···S1532
1-6-FP5-6	Pyogenic spondylitis as cancer locomotive syndrome <i>Mitsuhiro Hashimoto, et al.</i> , Dept. of Orthop. Surg., Chiba Rosai Hosp.···S1532

15 : 50 ~ 16 : 40 Free paper 6 Diagnosis Moderators M. Ieguchi, J. Imanishi

- 1-6-FP6-1 Exploring an OpenAI-Based interactive clinical tool with JOA guidelines for soft tissue tumor management*Masatake Matsuoka, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1533
- 1-6-FP6-2 SUVmax of PET-CT is useful for prognostic stratification of non-responder in osteosarcoma to preoperative chemotherapy*Toshiyuki Takemori, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.···S1533
- 1-6-FP6-3 Intrapulmonary lymph node in sarcoma patients*Makoto Emori, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1534
- 1-6-FP6-4 Investigation of the usefulness of the hybrid surgical system (Artis Zeego) in CT-guided needle biopsy*Hiroataka Ogi, et al.*, Shizuoka City Shizuoka Hosp.···S1534
- 1-6-FP6-5 Diagnostic challenges in low-grade central osteosarcoma: A retrospective study*Hisaki Aiba, et al.*, Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences···S1535
- 1-6-FP6-6 Factors influencing the benign/malignant diagnosis in biopsies of soft tissue tumor*Naohiro Shinohara, et al.*, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.···S1535

1st Day July 11 Poster Room 1(402)

15 : 00 ~ 15 : 45 Poster 1 Malignant bone tumors: Surgical innovations Moderator M. Emori

- 1-P1-1 Proximal humeral parosteal osteosarcoma: Shoulder function reconstructed with liquid nitrogen-treated bone autograft*Ken Inoue, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1536
- 1-P1-2 A case of clear cell chondrosarcoma in femur and scapula*Yusei Katsuyama, et al.*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine···S1536
- 1-P1-3 A case of internal hemipelvectomy for an older adult*Keisuke Akaike, et al.*, Dept. of Orthop. Surg., Yamanashi Prefectural Central Hosp.···S1537
- 1-P1-4 Vascularized fibular graft reconstruction following resection of secondary chondrosarcoma of the first metatarsal bone*Ikuo Kudawara, et al.*, Dept. of Orthop. Surg., National Hosp. Organization Osaka National Hosp.···S1537
- 1-P1-5 Repetitive surgery of full thickness resection and pedicle flap transfer for recurrent chest wall MPNST: A case report*Kosuke Takada, et al.*, Kuwana City Medical Center···S1538
- 1-P1-6 A case of proximal tibial osteosarcoma treated with liquid nitrogen-treated autograft using a patient-specific guide*Yasutaka Murahashi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1538
- 1-P1-7 A case of suspected femoral shaft bone metastasis in which bone biopsy and internal fixation using a nail drill*Natsuhiko Takata, et al.*, Kawaguchi Municipal Medical Center···S1539
- 1-P1-8★ Bone formation of bone-prosthesis interface in cases of compress device reconstruction for osteosarcoma*Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S1539
- 1-P1-9 A case of clear cell chondrosarcoma of the talus reconstructed with ceramic artificial talus*Yoshikuni Mimata, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ.···S1540

15 : 00 ~ 15 : 45 **Poster 2**

Moderator M. Hosaka

Malignant bone tumors: Rare cases and treatment outcomes

- 1-P2-1 A case of rare epiphyseal osteosarcoma *Kotaro Watanabe, et al.*, Dept. of Orthop. Surg.,
Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S1541
- 1-P2-2 A case of malignant triton tumor of the distal femur ... *Yoshitaka Ban, et al.*, Osaka City Juso Hosp. ...S1541
- 1-P2-3 A case of tibia tumor with intraosseous osteofibrous dysplasia-like adamantinoma and
extraosseous classical adamantinoma
..... *Shunsuke Yahiro, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center ...S1542
- 1-P2-4 A case of Ewing sarcoma located in coccyx *Yuki Hirata, et al.*, Hiroshima Prefectural Hosp. ...S1542
- 1-P2-5 A case of osteosarcoma of the proximal ulna
..... *Hitoshi Yamada, et al.*, Dept. of Orthop. Surg., Jusendo General Hosp. ...S1543
- 1-P2-6 Prognostic nutritional index predicts prognosis in patients with primary malignant bone tumors
..... *Tomotaka Yoshida, et al.*, Musculoskeletal Science,
Yokohama City Univ. Graduate School of Medicine ...S1543
- 1-P2-7 Outcomes of malignant bone tumors of the humerus reconstructed with irradiated autograft and
free vascularized fibula
..... *Atsushi Mihara, et al.*, Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine ...S1544
- 1-P2-8 Primary high grade sarcoma of the spine: Experience with 11 cases
..... *Ryunosuke Fukushi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S1544
- 1-P2-9 Outcome of ray amputation for malignant tumors of fingers or toes
..... *Haruki Nagai, et al.*, Chiba Cancer Center ...S1545

15 : 45 ~ 16 : 20 **Poster 3 Case report: Benign bone tumor**

Moderator K. Kumagai

- 1-P3-1 An intra-articular approach via the intercondylar fossa for chondroblastoma in the medial condyle
of the femur *Masato Fumoto, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1546
- 1-P3-2 A case of proximal femoral osteoid osteoma in a 2-year-old child
..... *Yusuke Yasutani, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S1546
- 1-P3-3 A case of Ollier's disease in radius with ulnocarpal abutment syndrome
..... *Risa Takenaka, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S1547
- 1-P3-4 Solitary osteochondroma of the proximal phalanx causing trigger finger in an adolescent:
A case report *Hiroataka Kurata, et al.*, Iwaki City Medical Center ...S1547
- 1-P3-5 A case of multiple enchondroma of bilateral toe treated with ray amputation
..... *Hideji Nishida, et al.*, Toyamanishi General Hosp. ...S1548
- 1-P3-6 A case of intraosseous lipoma occurring in both talus
..... *Teruki Kidani, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine ...S1548
- 1-P3-7 A case of solid ABC in clavicle *Katsushi Suzuki, et al.*, Orthop. Surg., Miyagi Cancer Center ...S1549

1st Day July 11 Poster Room 2(403)

15 : 00 ~ 15 : 55 **Poster 4**

Moderator H. Nakajima

Malignant soft-tissue tumors: Rare cases, diagnosis and surgery

- 1-P4-1 A case of epithelioid angiosarcoma arising within a schwannoma of the back
..... *Yuta Watanabe, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1550
- 1-P4-2 Myxoid liposarcoma originating in the retroperitoneum with metastasis to the calcaneus:
A case report
..... *Kazuhiko Hashimoto, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine ...S1550

- 1-P4-3★ A case of myxoid liposarcoma with unusual eosinophilic cells and DDIT3 gene rearrangement
 *Yoshiyuki Ayada, et al.*, Dept. of Pathology and Oncology,
 Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ.···S1551
- 1-P4-4 A case report: Pseudoendocrine sarcoma in the back of an elderly patient
 *Yoshinori Takemura, et al.*, Dept. of Orthop. Surg., Shiga Univ. of Medical Science···S1551
- 1-P4-5 G-CSF producing dermatofibrosarcoma protuberans
 *Hiroshi Hasegawa, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ.···S1552
- 1-P4-6 A case of malignant giant cell tumor of soft tissue that occurred in right thigh
 *Yuki Hayashida, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR···S1552
- 1-P4-7 A case report of low-grade myofibroblastic sarcoma of the buttock with intramuscular metastasis
 in the back *Rikiya Iwamaru, et al.*, Dept. of Orthop. Surg., Yamagata Univ.···S1553
- 1-P4-8 Reconstruction of Achilles tendon using semitendinosus tendon graft for malignant tumor
 around ankle: A case report *Satoshi Okita, et al.*, Dept. of Orthop., Shimane Univ.···S1553
- 1-P4-9 Reconstruction of the knee extensor following wide resection for a prepatellar clear cell
 sarcoma: A case report *Seiya Higuchi, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine···S1554
- 1-P4-10 A review of the imaging features of low-grade fibromyxoid sarcoma diagnosed at our hospital
 *Shuntaro Wada, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ.···S1554
- 1-P4-11 The examination that biopsy was benign, and turned into a malignant soft tissue tumor after
 the operation *Tetsuo Shimoyama, et al.*, Dept. of Orthop. Surg., Fujita Health Univ.···S1555

15 : 00 ~ 15 : 30	Poster 5 Benign soft tissue tumors: Rare cases	Moderator H. Kimura
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- 1-P5-1 A case of solitary periosteal myofibroma of the proximal tibia in an adult
 *Hanako Tsuji, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ.···S1556
- 1-P5-2 A case of soft tissue chondroma with 2 times local recurrence
 *Taro Nagai, et al.*, Dept. of Orthop. Surg., Tokyo Medical Univ.···S1556
- 1-P5-3 A soft tissue tumor that required differentiation from knee osteoarthritis: A case report
 *Naoki Mizoshiri, et al.*, Matsushita Memorial Hosp.···S1557
- 1-P5-4 Aggressive angiomyxoma treated with preoperative hormone therapy
 *Tetsuo Shimoyama, et al.*, Dept. of Orthop. Surg., Fujita Health Univ.···S1557
- 1-P5-5 Treatment of atypical spindle cell/pleomorphic lipomatous tumor
 *Akira Yoshiyama, et al.*, Dept. of Orthop. Surg., Tokyo Medical Center···S1558
- 1-P5-6 Osteoclastic giant rich tumor with HMGA2-NCOR2 fusion in the endocarp of ankle joint:
 A case report *Akira Shiga, et al.*, Kanagawa Cancer Center, Musculoskeletal Surg.···S1558

15 : 55 ~ 16 : 25	Poster 6	Moderator H. Nagasawa
Benign soft tissue tumors: Diagnosis and treatment		

- 1-P6-1 Surgical resection of rhabdomyoma of brachial plexus with nerve function preservation
 *Yuki Aibara, et al.*, Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp.···S1559
- 1-P6-2 Atypical spindle cell/Pleomorphic lipomatous tumor masquerading as a myxoid tumor
 *Jiro Ichikawa, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Science, Univ. of Yamanashi···S1559
- 1-P6-3 A case series of pediatric nodular fasciitis requiring differential diagnosis from malignant soft
 tissue tumors *Yuta Taniguchi, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ.···S1560
- 1-P6-4 Magnetic resonance imaging findings of tenosynovial giant cell tumor of the finger
 *Yoshikuni Mimata, et al.*, Dept. of Orthop. Surg., Iwate Medical Univ.···S1560
- 1-P6-5 Clinical and surgical treatment for myopericytoma
 *Yoji Shido, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine···S1561

- 1-P6-6 Postoperative outcome of surgery for synovial hemangioma in the knee joint
*Ryota Yamauchi, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine...S1561

15 : 30 ~ 16 : 20 Poster 7

Moderator H. Koyanagi

Malignant soft tissue tumors: Treatment and outcomes

- 1-P7-1 A case of palmar malignant rhabdoid tumor in remission after multidisciplinary treatment
*Yuya Eri, et al.*, Dept. of Orthop. Surg., Keio Univ...S1562
- 1-P7-2 A case of myxofibrosarcoma of the lower extremity in an elderly patient treated
 by thermoreadiotherapy*Katsuhiko Esaki, et al.*, Dept. of Orthop. Surg. Kyushu Rosai Hosp...S1562
- 1-P7-3★ Pembrolizumab's efficacy in treating liver metastases of MSI-stable/TMB-high pleomorphic
 liposarcoma: A case report
*Satoshi Miwa, et al.*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo...S1563
- 1-P7-4 First case report of the efficacy of pazopanib in a patient with malignant phosphaturic
 mesenchymal tumor*Shintaro Yokoyama, et al.*, Dept. of Orthop. Surg.,
 The Univ. of Tokyo Hosp., The Univ. of Tokyo...S1563
- 1-P7-5 A case of TMB-high chest wall Leiomyosarcoma showing reduction of lung metastasis
 with pembrolizumab*Hiroto Kamoda, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center...S1564
- 1-P7-6 Leiomyosarcoma was decreased by combination of pertuzumab and trastuzumab: A case report
*Hironori Date, et al.*, Japanese Red Cross Ise Hosp...S1564
- 1-P7-7 Treatment with eribulin for soft tissue sarcoma in our hospital
*Hirokazu Ideta, et al.*, Dept. of Orthop. Surg., Shinshu Univ...S1565
- 1-P7-8 Surgical resection of soft tissue metastasis in malignant soft tissue tumor: Case series
*Yuya Izubuchi, et al.*, Dept. of Orthop. and Rehabilitation Medicine,
 Faculty of Medical Sciences, Univ. of Fukui...S1565
- 1-P7-9 Pulmonary cryptococcosis mimicking a metastasis in a patient with myxoid liposarcoma
*Mariko Kawamura, et al.*, Dept. of Orthop. Surg., Hokkaido Univ. Hosp...S1566
- 1-P7-10 Preoperative full blood count in relation to soft tissue sarcoma prognosis
*Masanori Tsugita, et al.*, Dept. of Orthop. Surg., Div. of Disease Control,
 Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ...S1566

2nd Day July 12 Room 1

8 : 30 ~ 10 : 40 Symposium 5

Moderators T. Ozaki, S. Takahashi

The evolving JCOG bone and soft-tissue tumor group: reviewing the past 20 years and looking ahead to the next 20 years

- 2-1-SY5-1 Randomized phase II/III study comparing perioperative adriamycin plus ifosfamide
 and gemcitabine plus docetaxel for high-grade soft tissue sarcomas: Japan Clinical Oncology
 Group study JCOG1306*Kazuhiro Tanaka, et al.*, Dept. of Advanced Medical Sciences
 Oita Univ. Faculty of Medicine...S1567
- 2-1-SY5-2 A phase III study comparing methotrexate, adriamycin and cisplatin (MAP) with MAP +
 Ifosfamide (MAP + IF) for the treatment of osteosarcoma: JCOG0905
*Hiroaki Hiraga, et al.*, NHO Hokkaido Cancer Center...S1567
- 2-1-SY5-3 A randomized phase II trial of 2ND-line treatment for advanced soft tissue Sarcoma comparing
 Trabectedin, Eribulin and Pazopanib: Japan Clinical Oncology Group study:
 JCOG1802 (2ND-STEP)*Makoto Endo, et al.*, Dept. of Orthop. Surg.,
 Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ...S1568

- 2-1-SY5-4 Towards optimizing surgery and chemotherapy in the treatment of soft tissue sarcomas:
An introduction of JCOG 2102 *Yuki Funouchi, et al.*, Dept. of Orthop. and Spinal Surg.,
Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ. ...S1568
- 2-1-SY5-5 Is an international collaborative trial necessary?: From our experience with the
JCOG international collaborative trials
..... *Shintaro Iwata, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
National Cancer Center Hosp. ...S1569
- 2-1-SY5-6 Development of novel biomarker for the musculoskeletal tumor through new
generation sequence *Fumihiko Nakatani*, National Cancer Center Hosp. East ...S1569
- 2-1-SY5-7 The future of rare cancer clinical trials: perspective from biostatistician of Bone and Soft
Tissue Tumor Study Group of the Japan Clinical Oncology Group
..... *Ryunosuke Machida*, JCOG Data Center ...S1570

10 : 50 ~ 11 : 50	Invited lecture 3	Moderator T. Akiyama
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- 2-1-IL3-1 Surgery of the pelvis: Lessons and reflections on pelvic tumour surgery:
Experiences of a lifetime
..... *Peter F.M. Choong*, Univ. of Melbourne, Dept. of Surg., Melbourne, Australia ...S1571

12 : 20 ~ 13 : 20	Luncheon seminar 6	Moderator N. Kawahara
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- 2-1-LS6-1 Relationship between cancer treatment and orthopedic surgery: The new field
of onco-orthopaedics *Hideo Morioka*, Dept. of Orthop. Surg.,
National Hosp. Organization Tokyo Medical Center/Keio Univ. ...S1571

13 : 30 ~ 14 : 30	Cultural lecture	Moderator N. Araki
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- 2-1-CL-1 The glorious history and people of Fukui: Focusing on Emperor Kaitai and Sanai Hashimoto
..... *Naokadu Tsunoga*, Fukui Prefectural Univ., Kehi Shrine Chief Priest ...S1572

14 : 40 ~ 15 : 40	Special lecture 2	Moderator T. Ueda
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- 2-1-SL2-1 Personalized cancer immunotherapy based on individual genome information
..... *Kazuma Kiyotani, et al.*, Laboratory of Immunogenomics, National Institute of
Biomedical Innovation, Health and Nutrition ...S1572

16 : 00 ~ 17 : 00	Invited lecture 4	Moderator Y. Yazawa
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- 2-1-ILA-1 Results of osteosarcoma treatment in KCCH
Wonseok Song, et al., Korea Cancer Center Hosp., Dept. of Orthop. Surg., Seoul, South Korea ...S1573

17 : 30 ~ 18 : 30	Educational lecture 7	Moderator K. Tsuchiya
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- 2-1-EL7-1 Medical insurance system of bone and soft tissue tumor treatment: Present status
and perspectives *Takeshi Morii, et al.*, Dept. of Orthop. Surg., Kyorin Univ. ...S1573

2nd Day July 12 Room 2

8 : 30 ~ 9 : 30	Educational lecture 8	Moderator T. Akisue
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- 2-2-EL8-1 Vascular tumor and malformations occurring in the limbs and soft tissues of bones
..... *Michio Ozeki*, Gifu Univ. Hosp. ...S1574

9 : 40 ~ 10 : 40	Invited lecture 5	Moderator K. Kaneko
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2-2-IL5-1 Long term results of resections and reconstruction for bone tumors in children and adolescents *Eric Mascard, et al.*, Univ. Hosp. Necker, Paris / Institut Gustave Roussy, Villejuif Cedex, France...S1574

10 : 50 ~ 11 : 50	Educational lecture 9	Moderator J. Toguchida
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2-2-EL9-1 To the young orthopaedic surgeons living in the 21st century: The future of bone and soft tissue tumors reflects Japan
 *Akira Kawai*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp. ...S1575

12 : 20 ~ 13 : 20	Luncheon seminar 7	Moderator H. Kawashima
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2-2-LS7-1 Key points of clinical care for patients with neurofibromatosis type 1 by orthopaedic oncologists *Yoshihiro Nishida*, Dept. of Rehabilitation, Nagoya Univ. Hosp. ...S1575

13 : 30 ~ 14 : 30	Invited lecture 6	Moderator T. Hiranaka
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2-2-IL6-1 Review of yearly experience in Mandalay Orthopaedic Hospital (Myanmar) including tumor like lesions and experience of Rotationplasty in lower limb
 *Aung Naing*, Dept. of Orthop., Univ. of Medicine Magway, Magway, Myanmar...S1576

14 : 40 ~ 16 : 40	Panel discussion 3	Moderators H. Kawano, M. Endo
Current status and issues in bone and soft-tissue tumor treatment from a multidisciplinary perspective		

- 2-2-PD3-1 Nursing care for patients with sarcoma from the palliative care team
 *Serina Hani, et al.*, Dept. of Nursing, Univ. of Fukui Hosp. ...S1577
- 2-2-PD3-2 Current situations and issues of bone and soft tissue tumor therapy from pharmacist's perspective
 *Yukiko Nakagawa*, Dept. of Hosp. Pharmacy, Univ. of Kanazawa Hosp. ...S1577
- 2-2-PD3-3 Rehabilitation and occupational therapy in sarcoma treatment
 *Miki Fujii*, Dept. of Rehab., Osaka International Cancer Institute...S1578
- 2-2-PD3-4 The role of total nutrition management and therapy by nutrition support team (NST) as prevention and treatment for malnutrition through highly advanced cancer therapy
 *Mio Matsuoka, et al.*, Dept. of Nutrition, Osaka International Cancer Institute...S1578
- 2-2-PD3-5 Intervention in bone and soft tissue tumor cases based on consultation: Liaison psychiatry and psychology *Hiroshi Koubou*, The Cancer Institute Hosp. of JFCR...S1579
- 2-2-PD3-6 Outpatient clinic for hereditary bone and soft tissue tumors for patients at high risk of developing sarcoma
 *Mashu Futagawa, et al.*, Clinical Genetics and Genomic Medicine, Okayama Univ. Hosp. ...S1579
- 2-2-PD3-7 Current situation of regional cooperation in the treatment of bone and soft tissue tumors
 *Yasue Kawaguchi*, Univ. of Fukui Hosp. ...S1580

16 : 50 ~ 18 : 30	Symposium 6	Moderators S. Matsumoto, K. Hiraoka
Current status and challenges of sarcoma treatment in children and AYA generation		

2-2-SY6-1 Cancer predisposition and long-term complications of bone and soft tissue sarcomas in children, adolescents and young adults
 *Hidemi Toyoda*, Dept. of Pediatrics, Mie Univ. Graduate School of Medicine...S1581

- 2-2-SY6-2 Inter-institutional collaboration for the treatment of pediatric and AYA patients with bone and soft tissue sarcomas *Kunihiro Ikuta, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S1581
- 2-2-SY6-3 Monitoring fertility after treatment for high-grade sarcoma in adolescent and young male patients *Manabu Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp.···S1582
- 2-2-SY6-4 An approach to fertility preservation in adolescent and young adult soft tissue sarcoma patients *Tomohito Hagi, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine···S1582
- 2-2-SY6-5 Radiotherapy for pediatric sarcomas: Current situation and challenges *Yusuke Demizu*, Kobe Proton Center···S1583
- 2-2-SY6-6 Psychosocial support for child, adolescent and young adult patients *Miwa Sasaki*, Nagoya Univ. Hosp.···S1583

2nd Day July 12 Room 3

7 : 25 ~ 8 : 25 Morning seminar 1 Moderator H. Hiraga

- 2-3-MS1-1 Ablation for the treatment of bone and soft tissue tumors *Koichiro Yamakado*, Dept. of Radiology, Hyogo Medical Univ.···S1584

**8 : 30 ~ 10 : 10 Symposium 7 Moderators T. Morii, K. Hayashi
Tumor prosthesis: Infection prevention and control of infection**

- 2-3-SY7-1 Prevention and treatment of peri-operative infection in tumor endoprosthesis: Perspectives based on the survey of management principle on bone and tumor surgeons *Takeshi Morii, et al.*, Dept. of Orthop. Surg., Kyorin Univ.···S1585
- 2-3-SY7-2 Can JOA guideline for prevention of surgical site infection be recommended for mega prosthesis surgery? *Ikuo Fujita, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center···S1585
- 2-3-SY7-3 The risk factors of periprosthetic infection after tumor prosthesis of lower leg in patients with musculoskeletal tumor *Toshifumi Fujiwara, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ.···S1586
- 2-3-SY7-4 Should we remove surgical suction drains within 48 hours after the surgery of musculoskeletal malignant tumor? *Tomoaki Torioge, et al.*, Dept. of Orthop. Oncology and Surg., Saitama International Medical Center, Saitama Medical Univ.···S1586
- 2-3-SY7-5 Possibility of iodine-coated implants *Toshiharu Shirai, et al.*, Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine···S1587
- 2-3-SY7-6 Review of infection cases in oncological prosthesis and device *Keiko Hayakawa, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR···S1587
- 2-3-SY7-7 Analysis of infection control rates using continuous local antibiotics perfusion in PJI after bone tumor surgery *Tomotaka Yoshida, et al.*, Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine···S1588

**10 : 20 ~ 11 : 50 Symposium 8 Moderators T. Takagi, H. Sugiura
Cancer locomotive syndrome: What really matters to improve the quality of life of patients**

- 2-3-SY8-1 Rehabilitation and cancer locomotive syndrome for cancer patients *Hideshi Sugiura, et al.*, Dept. of Integrated Health Sciences, Nagoya Univ. Graduate School of Medicine···S1589

- 2-3-SY8-2 Factors associated with the preoperative two-step score with senior digestive cancer
 *Masahiro Yoshida, et al.*, Aichi Cancer Center...S1589
- 2-3-SY8-3 Preventing cancer locomotive syndrome in cancer patients undergoing cancer drug therapy
 *Noriatsu Tatematsu, et al.*, Nagoya Univ. Graduate School of Medicine...S1590
- 2-3-SY8-4 Exercise for cancer patients during treatment and cancer survivors
 *Tabu Gokita, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center...S1590
- 2-3-SY8-5 The role of orthopaedic surgeons in tumor board
 *Tomoki Nakamura, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1591
- 2-3-SY8-6 The key factor in treating bone metastasis is early detection
 *Yusuke Shinoda*, Dept. of Rehabilitation Medicine, Saitama Medical Univ...S1591
- 2-3-SY8-7 Basic onco-orthopaedic skills to general orthopaedic surgeons to provide standardized
 locomotive care for cancer patients
 *Sayaka Yamaguchi, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1592

12 : 20 ~ 13 : 20 Luncheon seminar 8 Moderator T. Morii

- 2-3-LS8-1 How to prevent SSIs in musculoskeletal tumor surgeries
 *Koji Yamada*, Dept. of Orthop. Surg., Nakanoshima...S1593

13 : 30 ~ 14 : 30 Educational lecture 10 Moderator T. Yonemoto

- 2-3-EL10-1 The role of total nutrition management as metabolic support through cancer therapy
 *Shohei Iijima*, Dept. of Nutrition Oncology, Osaka International Cancer Institute...S1593

15 : 00 ~ 16 : 00 Afternoon seminar 3 Moderator T. Ozaki

- 2-3-AS3-1 Treatment strategies for advanced stage malignant soft tissue tumors
 *Robert Nakayama*, Dept. of Orthop. Surg., Keio Univ...S1594

2nd Day July 12 Room 4

7 : 25 ~ 8 : 25 Morning seminar 2 Moderator H. Sugiura

- 2-4-MS2-1 Recent topics in the diagnosis and treatment of benign bone tumors
 *Eisuke Kobayashi*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp...S1594

**8 : 30 ~ 9 : 30 Main program 8 Moderators R. Nakayama, S. Takenaka
 Management of metastatic bone tumors**

- 2-4-MO8-1 Roles of orthopaedic surgeon in the treatment of metastatic bone tumors at a
 regional hospital *Takeo Fujito, et al.*, Dept. of Orthop./Rheumatology,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ...S1595
- 2-4-MO8-2 Effectiveness of liaison treatment for metastatic bone tumors and problems in its operation
 *Katsuhito Yoshioka, et al.*, NHO Kanazawa Medical Center...S1595
- 2-4-MO8-3 Efficacy of multidisciplinary approach for breast cancer patients with bone metastasis
 *Toru Hirozane, et al.*, Dept. of Orthop. Surg., Kyorin Univ...S1596
- 2-4-MO8-4 Treatment algorithms for metastatic bone tumors
 *Kazuhiko Hashimoto, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine...S1596

- 2-4-MO8-5 Significance of early diagnosis and primary lesion department consultation for metastatic bone tumor of unknown primary *Taketsugu Fujibuchi, et al.*, Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine...S1597
- 2-4-MO8-6 Should contrast medium be used in whole-body CT for skeletal metastasis of unknown primary origin? *Toshio Kojima, et al.*, Dept. of Orthop. Surg., Nihon Univ....S1597

9 : 40 ~ 10 : 40	Main program 9	Moderators I. Baba, E. Kobayashi
Treatment of metastatic bone tumors		

- 2-4-MO9-1 Outcome of cervical orthosis for metastatic bone tumors *Suguru Fukushima, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp....S1598
- 2-4-MO9-2 Prognosis of lung cancer patients with spinal metastases treated with surgical procedures *Ukei Anazawa, et al.*, Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp....S1598
- 2-4-MO9-3 Surgical delay in for impending/pathological femoral fractures due to bone metastasis *Ion Kimura, et al.*, Dept. of Orthop. Surg., Teikyo Univ....S1599
- 2-4-MO9-4 Investigation after discontinuation of long-term denosumab treatment for bone metastasis *Hitomi Hara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1599
- 2-4-MO9-5 Prognostic tendency of bone metastasis from breast cancer over the last decade *Yasuo Yazawa, et al.*, Dept. of Orthop. Oncology and Surg., Saitama International Medical Center, Saitama Medical Univ....S1600
- 2-4-MO9-6★ Clinical outcome of bone metastasis from soft tissue sarcomas *Tomohito Hagi, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1600

10 : 50 ~ 11 : 50	Main program 10	Moderators K. Horiuchi, A. Myoui
Basic research on sarcoma		

- 2-4-MO10-1 Systematic analysis of the publications on the basic research of osteosarcoma *Keisuke Horiuchi, et al.*, Dept. of Orthop. Surg., National Defense Medical College...S1601
- 2-4-MO10-2 Effect of surfactant on osteosarcoma cell line 143B cells *Yuka Muramatsu, et al.*, Dept. of Physic. Ther., Shinshu Univ....S1601
- 2-4-MO10-3 Pannexin3 and Connexin43 for osteosarcoma *Teruya Uchiyama, et al.*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1602
- 2-4-MO10-4★ Redox regulatory mechanisms in tumor progression of epithelioid sarcoma *Hideyuki Kinoshita, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center...S1602
- 2-4-MO10-5 Association with endoplasmic reticulum stress response in sarcomas of bone and soft tissue *Yoshiyuki Suehara, et al.*, Div. of Cellular Signaling, National Cancer Center Research Institute...S1603
- 2-4-MO10-6 Spatial transcriptome analysis of bone and soft tissue tumors *Yoshiyuki Suehara, et al.*, Div. of Cellular Signaling, National Cancer Center Research Institute...S1603

12 : 20 ~ 13 : 20	Luncheon seminar 9	Moderator H. Kawano
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- 2-4-LS9-1 Understanding tumor endoprosthesis at lower extremity *Tomoki Nakamura*, Dept. of Musculoskeletal Surg., Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1604

Rehabilitation, functions and quality of life

- 2-4-FP7-1 Present conditions for fertility preservation in Yamaguchi prefecture
 *Ryuta Iwanaga, et al.*, Dept. of Orthop. Surg.,
 Yamaguchi Univ. Graduate School of Medicine...S1605
- 2-4-FP7-2 Effect of chemotherapy of malignant bone and soft tissue tumors on bone density
 *Chiomi Shirai, et al.*, Dept. of Orthop. Surg., Yamagata Univ...S1605
- 2-4-FP7-3 Long-term BMD in patients with osteosarcoma: AI-assisted diagnostic system for osteoporosis
 using the X-ray image *Koichi Okajima, et al.*, Dept. of Orthop. Surg.,
 The Univ. of Tokyo Hosp., The Univ. of Tokyo...S1606
- 2-4-FP7-4 Outcomes and challenges of fracture prevention in cancer-associated osteoporosis clinic
 *Yuya Tokumoto, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center...S1606
- 2-4-FP7-5 Functional outcome after wide resection of the soft tissue sarcoma around the knee joint
 *Hiroshi Koike, et al.*, Dept. of Orthop./Rheumatology,
 Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine,
 Graduate School of Medicine, Nagoya Univ...S1607
- 2-4-FP7-6 Prognostic impact of prehospital delay to specialized sarcoma center in osteosarcoma patients:
 Suggestion of 4-week rule *Takanao Kurozumi, et al.*, Dept. of Orthop. Surg.,
 Science of Functional Recovery and Reconstruction, Faculty of Medicine,
 Dentistry, and Pharmaceutical Sciences, Okayama Univ...S1607
- 2-4-FP7-7 The prognostic significance of surgical treatment for excessive elderly soft tissue sarcoma
 patients over 90 years old
 *Hiroyuki Tsuchie, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine...S1608
- 2-4-FP7-8 Analysis of risk factors for distant metastasis in high-grade soft tissue sarcoma in
 elderly patients *Shinichirou Yoshida, et al.*, Dept. of Orthop. Surg.,
 Tohoku Univ. Graduate School of Medicine...S1608

New treatment techniques

- 2-4-MO11-1 Blue LED light induces antitumor effects on bone and soft tissue sarcoma cells without
 damaging normal cells
 *Shinji Kawaguchi, et al.*, Dept. of Orthop., Tokushima Univ. Hosp...S1609
- 2-4-MO11-2 Usefulness of pasteurized bone and vascularized periosteal grafts for malignant
 bone tumors *Taisuke Furuta, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Biomedical and Health Sciences, Hiroshima Univ...S1609
- 2-4-MO11-3 Prognostic factors for soft tissue sarcoma of the limbs and trunk and application of negative
 pressure wound therapy *Shusa Ohshika, et al.*, Dept. of Orthop. Surg.,
 Hirosaki Univ. Graduate School of Medicine...S1610
- 2-4-MO11-4 A study of effective cases of hyperthermia for orthopaedic malignant tumors in our hospital
 *Shun Yuki, et al.*, Chiba Cancer Center...S1610
- 2-4-MO11-5 A study of four cases of total hip arthroplasty after periacetabular resection with
 preoperative 3D planning *Rie Suzuki, et al.*, Osaka International Cancer Institute...S1611
- 2-4-MO11-6 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...S1611

16 : 30 ~ 17 : 50	Main program 12	Moderators M. Hakozaiki, S. Iwata
How to deal with refractory benign tumors such as neurofibromatosis		

- 2-4-MO12-1 Pathogenesis of recurrent solitary bone cyst
 *Manabu Hoshi, et al.*, Dept. of Orthop. Surg., Osaka City General Hosp. ...S1612
- 2-4-MO12-2 To improve ADL/QOL of patients with intractable benign bone and soft tissue tumors:
 Adequate intervention for problems
 *Yoshihiro Nishida, et al.*, Dept. of Rehabilitation, Nagoya Univ. Hosp. ...S1612
- 2-4-MO12-3 Recommendations regarding the prescription of selumetinib that will transform the
 treatment of neurofibromatosis type 1
 *Yoshihiro Nishida, et al.*, Dept. of Rehabilitation, Nagoya Univ. Hosp. ...S1613
- 2-4-MO12-4 Analysis of patient care in a university hospital for neurofibromatosis type 1, 2
 *Akira Ogoe, et al.*, Unonuma Institute of Community Medicine,
 Niigata Univ. Medical and Dental Hosp. ...S1613
- 2-4-MO12-5 Outpatient clinic for hereditary bone and soft tissue tumors for patients
 *Eiji Nakata, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and
 Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences,
 Okayama Univ. ...S1614
- 2-4-MO12-6 Clinical outcome of MPNST with NF1 *Junji Wasa, et al.*, Shizuoka Cancer Center ...S1614
- 2-4-MO12-7 Demographics of primary spinal cord and cauda equina tumors
 *Osahiko Tsuji, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1615
- 2-4-MO12-8 Invasion patterns and long-term clinical outcomes of diffuse type tenosynovial giant cell
 tumor in the ankle
 *Kumiko Yotsuya, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine ...S1615

2nd Day July 12 Room 5

9 : 30 ~ 10 : 45	Free paper 8 Epidemiology	Moderators H. Murata, M. Watanuki
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- 2-5-FP8-1 Clinical features and outcomes of primary bone and soft tissue sarcomas in adolescents and
 young adults
 *Kazuhiko Hashimoto, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine ...S1616
- 2-5-FP8-2 Statistics of musculoskeletal sarcoma over the last decade in a single institution
 *Yasuo Yazawa, et al.*, Dept. of Orthop. Oncology and Surg.,
 Saitama International Medical Center, Saitama Medical Univ. ...S1616
- 2-5-FP8-3 Clinical characteristics of ultra-rare sarcoma: A study using the US SEER database
 *Ryuichi Fukuda, et al.*, Dept. of Orthop. Surg.,
 Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ...S1617
- 2-5-FP8-4 Statistics of primary spinal benign/intermediate tumors in Japan
 *Ryuto Tsuchiya, et al.*, Funabashi Municipal Medical Center ...S1617
- 2-5-FP8-5 Sarcoma and chromosomal translocations: Descriptive epidemiology in the bone and soft
 tissue tumor registry in Japan *Kengo Kawaguchi, et al.*, Dept. of Orthop. Surg.,
 Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S1618
- 2-5-FP8-6★ Descriptive epidemiology of bone sarcoma in Japan: Statistics from the national cancer
 registry in Japan
 *Koichi Ogura, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation,
 National Cancer Center Hosp. ...S1618
- 2-5-FP8-7 Osteosarcoma in children 9 years of age or younger: A study using data from the national
 bone tumor registry in Japan ... *Kensaku Yamaga, et al.*, Dept. of Orthop. Surg., Tottori Univ. ...S1619

- 2-5-FP8-8 Time-to-treatment initiation analysis in patients with non-small round cell sarcomas at extremities *Sakurako Takahashi, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1619
- 2-5-FP8-9 Statistics of visceral sarcoma in Japan: Report from the population-based national cancer registry in Japan *Shudai Muramatsu, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.···S1620

10 : 50 ~ 11 : 50 Free paper 9

Moderators S. Sugihara, M. Susa

Infection and perioperative complications

- 2-5-FP9-1 Efficacy of plasma D-dimer screening for preoperative thrombosis in bone and soft tissue tumor patients *Hiroya Kondo, et al.*, Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.···S1621
- 2-5-FP9-2 GNRI as a predictor for surgical site infection malignant musculoskeletal tumours of the trunk *Sakura Shiraishi, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ.···S1621
- 2-5-FP9-3 Risk factors associated with postoperative infection of wide resection for soft tissue sarcomas occurring around hips *Junya Shimizu, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1622
- 2-5-FP9-4 The risk factors for surgical site infection of malignant soft tissue tumor of the thigh *Shunsuke Yahiro, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center···S1622
- 2-5-FP9-5 Wound infection of bone and soft tissue tumor surgery around pelvis and proximal thigh *Kan Ito, et al.*, Dept. of Orthop. Surg., Shizuoka Cancer Center···S1623
- 2-5-FP9-6 Deep infection after mega-prosthesis reconstruction for bone and soft tissue sarcomas *Haruyoshi Katayama, et al.*, Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.···S1623
- 2-5-FP9-7 Tips on infection prevention for mega-prostheses *Takaaki Tanaka, et al.*, Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui···S1624

12 : 20 ~ 13 : 20 Luncheon seminar 10

Moderator A. Kawai

- 2-5-LS10-1 Diagnosis and treatment of FGF23-related hypophosphatemic rickets/ osteomalacia: Current topics and future tasks *Hiroshi Kobayashi*, Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo···S1625

13 : 30 ~ 14 : 20 Free paper 10

Moderators S. Ohshika, T. Nishisho

Chemotherapy for malignant bone tumors

- 2-5-FP10-1 Investigation of the optimal regimen of adjuvant chemotherapy for elderly patients with high-grade bone sarcomas *Akihito Nagano, et al.*, Dept. of Orthop. Surg., Div. of Disease Control, Research field of Medical Sciences, Graduate School of Medicine, Gifu Univ.···S1626
- 2-5-FP10-2 The relationship between radiological change and pathological effect and prognosis after chemotherapy in osteosarcoma *Shinichirou Yoshida, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine···S1626
- 2-5-FP10-3 Adverse events in methotrexate / levofolinate relief therapy *Masanobu Takeyama, et al.*, Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine···S1627

- 2-5-FP10-4★ A novel predictive scoring system of immune checkpoint inhibitors for non-small-cell lung cancer with bone metastases *Yohei Asano, et al.*, Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ. ...S1627
- 2-5-FP10-5 Prognostic factors related to changes in nutritional status and wound complications due to neoadjuvant chemotherapy *Jun Iwatsu, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine ...S1628
- 2-5-FP10-6 Survey and treatment of chemotherapy-induced peripheral neuropathy *Akihiro Daisaku, et al.*, Dept. of Orthop. Surg., Kurume Univ. ...S1628

14 : 30 ~ 15 : 20

Free paper 11

Moderators H. Urakawa, T. Yanagawa

Chemotherapy for soft-tissue sarcoma

- 2-5-FP11-1 Effects of preoperative chemotherapy in patients with inflammatory soft tissue sarcoma *Reina Kaneko, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S1629
- 2-5-FP11-2 Effect of perioperative chemotherapy in patients with localized myxoid liposarcoma *Tomoya Masunaga, et al.*, Dept. of Orthop. Surg., Nara Medical Univ. ...S1629
- 2-5-FP11-3 Dosage and clinical course of doxorubicin and ifosfamide chemotherapy for bone and soft tissue sarcoma *Shunsuke Hamada, et al.*, Dept. of Orthop. Surg., Aichi Cancer Center ...S1630
- 2-5-FP11-4 Long-term survival after distant metastases in synovial sarcoma patients *Kaoru Aoki, et al.*, Dept of Physical Therapy, Shinshu Univ. ...S1630
- 2-5-FP11-5 Two cases of contrastive course of Ewing-like sarcoma *Hiroaki Shibata, et al.*, Dept. of Orthop. Surg., Asahikawa Medical Univ. ...S1631
- 2-5-FP11-6 A case of advanced dedifferentiated liposarcoma under control using ADR therapy with dexrazoxane ... *Shunichi Toki, et al.*, Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School ...S1631

15 : 30 ~ 16 : 35

Free paper 12 Metastatic bone tumors 1

Moderators J. Manabe, T. Kawamoto

- 2-5-FP12-1 Practice of treatment for bone metastasis by residents at a regional hospital *Kunihiro Ikuta, et al.*, Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ...S1632
- 2-5-FP12-2 The effects of the bone metastasis board and bone modifying agent usage status in our hospital *Shinichirou Yoshida, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine ...S1632
- 2-5-FP12-3 Image-based record screening may suppress skeletal-related events in patients with bone metastases *Nokitaka Setsu, et al.*, Dept. of Orthop. Surg., Kyushu Cancer Center ...S1633
- 2-5-FP12-4 Treatment results for metastatic bone tumors in the late elderly patients treated with surgery *Itsuo Watanabe, et al.*, Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp. ...S1633
- 2-5-FP12-5 The role of orthopaedic surgeons based on treatment results for bone metastasis from small cell lung cancer *Yuya Sato, et al.*, Dept. of Orthop. Surg., Kasukabe Medical Center ...S1634
- 2-5-FP12-6 The trial of bone metastasis cancer board in the local hospital *Akira Takazawa, et al.*, Shinshu Ueda Medical Center ...S1634
- 2-5-FP12-7 Surgical intervention for pathological femur fractures improves life outcomes *Toshiyuki Nishimoto, et al.*, Hokkaido Cancer Center ...S1635
- 2-5-FP12-8 Clinical outcome of radiofrequency ablation for metastatic bone tumors *Nobuhiko Yokoyama, et al.*, Dept. of Orthop. Surg., National Kyushu Cancer Center ...S1635

16 : 45 ~ 17 : 45 Free paper 13 Metastatic bone tumors 2 Moderators K. Yamada, S. Sato

- 2-5-FP13-1 Intermediate unstable spinal metastases with paralytic progression after radiotherapy
 *Atsushi Tanaka, et al.*, Dept. of Orthop. Surg., Shinshu Univ.··S1636
- 2-5-FP13-2 The necessity of estimation for restoring ambulation and complications of surgery for metastatic spinal tumors
 *Akira Iwata, et al.*, Dept. of Musculoskeletal Oncology, Hokkaido Cancer Center··S1636
- 2-5-FP13-3 Prognostic factors in patients with cancers revealed by bone metastasis
 *Jun Iwatsu, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine··S1637
- 2-5-FP13-4 Evaluation of primary unknown bone metastasis cases in initial consultation at the orthopaedic surgery department *Makoto Yamaguchi, et al.*, Nagoya City Univ. Hosp.··S1637
- 2-5-FP13-5 Clinical characteristics and prognostic factors of bone metastasis in gastric cancer patients
 *Yasuhiro Nakamura, et al.*, Dept. of Orthop., Juntendo Univ.··S1638
- 2-5-FP13-6 Reoperation after surgery for bone metastasis of renal cell carcinoma
 *Shinji Tsukamoto, et al.*, Dept. of Orthop. Surg., Nara Medical Univ.··S1638
- 2-5-FP13-7 A clinical study for bone metastases with duplicate cancer
 *Tadaaki Koyama, et al.*, Dept. of Orthop. Surg., Shizuoka Cancer Center··S1639

2nd Day July 12 Room 6

13 : 30 ~ 14 : 45 Free paper 14 Radiation therapy Moderators M. Koizumi, K. Kikuta

- 2-6-FP14-1 Experience in the treatment of radiation-induced sarcoma
 *Tsukasa Mizuno, et al.*, Dept. of Orthop. Surg., National Defense Medical College··S1640
- 2-6-FP14-2 Comparison of preoperative and postoperative radiotherapy in patients with localized myxoid liposarcoma
 *Tomoya Masunaga, et al.*, Dept. of Orthop. Surg., Nara Medical Univ.··S1640
- 2-6-FP14-3 Marginal resection following neoadjuvant radiotherapy for intermuscular myxoid liposarcoma
 *Akira Nomura, et al.*, Dept. of Orthop. Surg., Surgical Science, Tokai Univ.··S1641
- 2-6-FP14-4 Proton beam radiotherapy for unresectable bone and soft tissue sarcoma
 *Yosuke Honda, et al.*, Hamamatsu Red Cross Hosp.··S1641
- 2-6-FP14-5 An analysis of the risk factors for local failure of sacral chordoma treated with carbon-ion radiotherapy *Takashi Yanagawa, et al.*, Gunma Prefectural Cancer Center, Dept. of Musculoskeletal Oncology··S1642
- 2-6-FP14-6 A retrospective analysis of carbon-ion radiotherapy for unresectable chondrosarcoma
 *Yuhei Miyasaka, et al.*, Dep. of Radiation Oncology, Gunma Univ. Graduate School of Medicine··S1642
- 2-6-FP14-7 Clinical results of carbon-ion radiotherapy for unresectable bone and soft tissue sarcomas
 *Akira Matsunobu, et al.*, SAGA HIMAT··S1643
- 2-6-FP14-8 Particle therapy in patients with Ewing sarcoma family of tumors of the trunk
 *Yoichi Kaneuchi, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ.··S1643
- 2-6-FP14-9 Selective perioperative radiation therapy for soft tissue sarcoma patients
 *Toshihiko Nishisho, et al.*, Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School··S1644

15 : 10 ~ 16 : 10 Short Talk 1 Treatment Moderators Y. Tanzawa, H. Hatano

- 2-6-ST1-1 Two cases of early postoperative loosening and revision after joint replacement for distal femoral bone tumor *Ryo Satake, et al.*, Shizuoka Cancer Center··S1645

- 2-6-ST1-2 Experience in treating mesh-free tumor arthroplasty
 *Tomohiko Ito, et al.*, Dept. of Orthop. Surg., Kindai Univ. Faculty of Medicine...S1645
- 2-6-ST1-3 Guided growth using an Eight-Plate for correction of leg-length discrepancy associated with
 bone and soft tissue tumors
 *Kumiko Yotsuya, et al.*, Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S1646
- 2-6-ST1-4★ Surgical treatment for sciatic notch dumbbell-shaped adipocytic tumors
 *Shunichi Toki, et al.*, Dept. of Orthop., Institute of Biomedical Sciences,
 Tokushima Univ. Graduate School...S1646
- 2-6-ST1-5★ Intraoperative extracorporeal autogenous irradiated tendon grafts for soft tissue sarcomas.
 Report of three cases
 *Naoya Terao, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and
 Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences...S1647
- 2-6-ST1-6 Treatment for fibrous dysplasia using corrective osteotomy: Three cases report
 *Tetsuya Hamada, et al.*, Dept. of Orthop. Surg., Kurume Univ....S1647
- 2-6-ST1-7 Three cases of solitary distal tibial osteochondroma with compression and deformity to
 the fibula *Koki Shimizu, et al.*, Dept. of Orthop. Surg., Nagoya Memorial Hosp....S1648
- 2-6-ST1-8 Resection for osteochondroma of the forearm limiting forearm rotation in two case reports
 ... *Takashi Noguchi, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ....S1648
- 2-6-ST1-9 Clinical outcomes of dermatofibrosarcoma protuberans
 *Ryo Katsuki, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus...S1649
- 2-6-ST1-10 My small experiences of surgery for bone metastases
 *Masato Tomita, et al.*, Dept. of Orthop. Surg., Nagasaki Harbor Medical Center...S1649
- 2-6-ST1-11 Clinical experience of six cases in malignant granular cell tumor
 *Taisuke Tanizawa, et al.*, Dept. of Orthop. Surg., Cancer Institute Hosp. of JFCR...S1650
- 2-6-ST1-12 Treatment and prognosis for tumors of the foot and ankle
 *Jeung Il Kim, et al.*, Dept. of Orthop. Surg.,
 Pusan National Univ. Hosp., Pusan National Univ. School of Medicine, Busan, Korea...S1650

16 : 20 ~ 17 : 10

Short Talk 2

Moderators T. Yasuda, S. Kakunaga

Diagnosis, complications and others

- 2-6-ST2-1 Detecting malignant transformation of chondrosarcoma secondary to multiple
 osteochondromatosis using FDG-PET/MRI
 *Takeo Suzuki, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ....S1651
- 2-6-ST2-2 Aggressive vertebral hemangioma with destructive bone lesions requiring differentiation
 from malignancy: 2 case reports *Kanjiro Oka, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine...S1651
- 2-6-ST2-3 Two cases of self-ruptured chronic expanding hematoma mimicking soft tissue sarcoma
 *Tatsuya Ito, et al.*, Dept. of Orthop. Surg., Hyogo Cancer Center...S1652
- 2-6-ST2-4 Three cases of phosphoglyceride crystal deposition disease with initially suspected
 bone tumor *Takuto Kumagai, et al.*, Dokkyo Medical Univ. Hosp....S1652
- 2-6-ST2-5 Three cases of adult-onset Langerhans cell histiocytosis: Clinical features and
 literature review
 *Ryuji Nemoto, et al.*, Dept. of Orthop. Surg., National Defense Medical College...S1653
- 2-6-ST2-6 Intractable pain developed after chemotherapy suspected of involving cytomegalovirus
 *Hitoshi Yamada, et al.*, Dept. of Orthop. Surg., Jusendo General Hosp....S1653
- 2-6-ST2-7 Osteoporotic vertebral fractures due to high-dose steroid use: An analysis of three cancer
 patient cases *Yuya Tokumoto, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center...S1654

- 2-6-ST2-8 Three cases of osteosarcoma with delayed methotrexate excretion in the third space after high-dose methotrexate therapy
 ... *Shuhei Tokoyoda, et al.*, Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. ...S1654
- 2-6-ST2-9 Two cases of implant failure after intramedullary nail fixation for pathological fractures of femoral metastases ... *Itaru Ogawa, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1655
- 2-6-ST2-10 Clinical practice in Miyako island for the patients in orthopaedic oncology
 *Yumi Matsuyama, et al.*, Dept. of Musculoskeletal Surg.,
 Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine ...S1655

17 : 20 ~ 18 : 10 Free paper 15
Benign bone and soft-tissue tumor

Moderators Y. Shido, Y. Tome

- 2-6-FP15-1 The efficacy of anhydrous ethanol adjuvant therapy on aneurysmal bone cysts
 *Fumiko Koibuchi, et al.*, Dept. of Orthop. Surg.,
 Tohoku Univ. Graduate School of Medicine ...S1656
- 2-6-FP15-2 Clinical presentation of fibrous dysplasia of the proximal femur without deformity and treatment strategies for pain
 *Masato Yoshimoto, et al.*, Dept. of Orthop. Surg., Kyushu Rosai Hosp. ...S1656
- 2-6-FP15-3 Recurrence factors for osteoid osteoma after CT-guided curettage and electrocautery ablation *Satoshi Kamio, et al.*, Dept. of Orthop. Surg., Keio Univ. ...S1657
- 2-6-FP15-4 Ten cases of subungual exostosis of the toes
 *Eiji Kozawa, et al.*, Dept. of Orthop. Surg., Nagoya Memorial Hosp. ...S1657
- 2-6-FP15-5 Predictive factors for intraoperative and postoperative bleeding in chronic expansive hematoma *Keisuke Hoshiko, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kyushu Univ. ...S1658
- 2-6-FP15-6 Clinical course of patients diagnosed with nodular fasciitis
 *Hiroshi Urakawa, et al.*, Dept. of Advanced Medicine, Nagoya Univ. Hosp. ...S1658

2nd Day July 12 Poster Room 1(402)

15 : 00 ~ 15 : 50 Poster 8 Tumor-like lesions: Diagnosis and treatment

Moderator E. Kozawa

- 2-P8-1 A case report of soft-tissue tumor in the anterior mediastinum
 *Yoshihiro Araki, et al.*, Dept. of Orthop. Surg., Hirose Hosp. ...S1659
- 2-P8-2 Differential diagnosis of pediatric pyogenic osteomyelitis from bone tumors and tumor-like lesions ... *Takashi Ariizumi, et al.*, Div. of Orthop. Surg., Dept. of Regenerative and Transplant Medicine, Niigata Univ. Graduate School of Medical and Dental Sciences ...S1659
- 2-P8-3 Characteristic and clinical outcome in patients with chronic expanding hematoma of the soft tissue *Kenta Nakata, et al.*, Dept. of Orthop. Surg., Mie Univ. ...S1660
- 2-P8-4 Metal allergy to megaprosthesis detected by PET/CT: A case report
 *Yoichi Kaneuchi, et al.*, Dept. of Orthop. Surg., Fukushima Medical Univ. ...S1660
- 2-P8-5 4 cases of osteomyelitis that required differential diagnosis from bone tumors
 *Yusuke Sato, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S1661
- 2-P8-6 Periprosthetic infection following proximal femur replacement treated with cotinuous local antibiotics perfusion (CLAP) *Kunihiko Numoto, et al.*, Kochi Health Sciences Hosp. ...S1661
- 2-P8-7 A case of proximal femoral lymphorrhea around a tumor-type hip arthroplasty treated using pedal lymphangiography *Toshio Kojima, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S1662
- 2-P8-8 A case of femoral shaft aneurysmal bone cyst applicated treatment of chronic expanding hematoma *Kenji Kumagai, et al.*, Dept. of Orthop. Surg.,
 Nagasaki Univ. Graduate School of Biomedical Sciences ...S1662

- 2-P8-9★ Comparison of malignancy incidence during osteoporosis treatment: Denosumab vs. bisphosphonates *Takaomi Kobayashi, et al.*, Dept. of Orthop., Taku City Hosp.···S1663
- 2-P8-10 Surgery for proximal femoral fractures in elderly patients receiving cancer treatment *Shuichiro Suzuki, et al.*, Matsumoto Medical Center···S1663

15 : 00 ~ 15 : 45	Poster 9 Tumor-like lesions	Moderator A. Sakamoto
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- 2-P9-1 A case of lateral meniscus cyst of the knee diagnosed with common peroneal nerve palsy *Mako Okumura, et al.*, Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S1664
- 2-P9-2 A case of hyperparathyroidism-jaw tumor syndrome and a fibrous dysplasia of the rib *Chigusa Sawamura, et al.*, Saitama Cancer Center ···S1664
- 2-P9-3 Costal osteomyelitis as a side reaction of Bacillus Calmette-Guerin vaccination: A case report *Shohei Murata, et al.*, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S1665
- 2-P9-4 A case of amyloidoma of the lower leg presented the characteristic change on MR images after the open biopsy *Keitaro Umehara, et al.*, JCHO Tokuyama Central Hosp.···S1665
- 2-P9-5 Symphysis pubis osteomyelitis after robotics assisted laparoscopic prostatectomy *Shusui Hatta, et al.*, Dept. of Orthop. Surg., Chiba Cancer Center···S1666
- 2-P9-6 A case of femoral streptococcal infection that required differentiation from soft tissue tumor *Yuya Tokumoto, et al.*, Dept. of Orthop. Surg., Saitama Cancer Center···S1666
- 2-P9-7 Xanthogranulomatous osteomyelitis of femur mimicking malignant bone tumor *Hiroshi Hatakeyama, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Hosp.···S1667
- 2-P9-8 A case of digital subungual mucous cyst invading distal phalanx *Hiroyuki Takeuchi, et al.*, Hanwa Memorial Hosp. ···S1667
- 2-P9-9 A case of Gorham's disease diagnosed following a pathological femoral neck fracture *Daigo Shiraiishi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1668

15 : 45 ~ 16 : 20	Poster 10	Moderator Y. Kitagawa
"Intermediate" category of lesions: Rare cases and treatment		

- 2-P10-1 A case of giant cell tumor of bone in the navicular bone of the foot *Rintaro Niki, et al.*, Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine···S1669
- 2-P10-2 A case of giant cell tumor in the metacarpal bone *Natsuki Maruyama, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ.···S1669
- 2-P10-3 A case report of atypical lipomatous tumor indicating multicentric development *Genji Suemitsu, et al.*, Dept. of Orthop. Surg., Kagawa Univ.···S1670
- 2-P10-4 Kaposiform hemangioendothelioma diagnosed following elbow contracture: A case report *Yoko Tanabe, et al.*, Dept. of Orthop. Surg., Keio Univ.···S1670
- 2-P10-5★ Differences in MRI findings of superficial spindle cell lipoma and atypical lipomatous tumor *Masaya Kawaguchi, et al.*, Dept. of Radiol., Gifu Univ.···S1671
- 2-P10-6 Differential diagnosis of lipomatous tumor based on the combination of clinical features and MRI findings *Yuya Izubuchi, et al.*, Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui···S1671
- 2-P10-7 A case of angiomatoid fibrous histiocytoma of the thigh with difficult diagnosis *Seiichi Sugimura, et al.*, Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine···S1672

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15 : 00 ~ 15 : 45 Poster 11 Radiotherapy and QOL Moderator T. Tanizawa

- 2-P11-1 Association between ADC values and clinical outcome in bone and soft tissue tumor treated with carbon ion radiotherapy *Masato Sugawara, et al.*, Dept. of Orthop. Surg., Yamagata Univ. ...S1673
- 2-P11-2★ Qualitative effectiveness determination after spinal SBRT by DWIBS
..... *Masateru Fujiwara, et al.*, Dept. of Radiotherapy, Suita Tokushukai Hosp. ...S1673
- 2-P11-3 Two cases of preoperative proton beam therapy for myxoid liposarcoma
..... *Shuichi Fujiwara, et al.*, Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine ...S1674
- 2-P11-4 A case of benign metastasizing leiomyoma treated palliatively with stereotactic body radiotherapy using CyberKnife *Shinichiro Mizumatsu, et al.*, Aoyama General Hosp. ...S1674
- 2-P11-5 A case of dedifferentiated liposarcoma treated with fiducial-tracking stereotactic body radiotherapy of CyberKnife *Koji Iwata, et al.*, Dept. of Radiology, Fukui Saiseikai Hosp. ...S1675
- 2-P11-6 Factors associated with walking ability after limb-sparing surgery for femoral soft-tissue tumors
..... *Toru Nishikawa, et al.*, Rehabilitation Units, Kyoto Univ. Hosp. ...S1675
- 2-P11-7 A preliminary study of the effect of step exercise on gait parameters after resection of femoral soft tissue sarcoma *Yasuko Fujita, et al.*, Rehabilitation Units, Kyoto Univ. Hosp. ...S1676
- 2-P11-8 Preoperative systemic nutrition status and tumor glucose metabolism in patients with soft tissue sarcoma
..... *Hiromichi Oshiro, et al.*, Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus ...S1676
- 2-P11-9 The impact of novel coronavirus disease-19 on musculoskeletal tumor treatment in our department: The second report *Takahiro Tajino*, Minami Tohoku Fukushima Hosp. ...S1677

15 : 00 ~ 15 : 25 Poster 12 Basic research Moderator T. Fujiwara

- 2-P12-1★ Study of sarcoma cases with PHF20-NTRK1 fusion gene
..... *Yuta Kubota, et al.*, Dept. of Orthop. Surg., Oita Univ. ...S1678
- 2-P12-2★ Deciphering gene rearrangement in non-translocation related sarcoma: Clinical insights from public NGS data analysis ... *Kengo Kawaguchi, et al.*, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ. ...S1678
- 2-P12-3 Clinical significance of sIL-2 receptor levels in the initial diagnosis of musculoskeletal tumor
..... *Takashi Tajima, et al.*, Dept. of Orthop. Surg., Kyorin Univ. ...S1679
- 2-P12-4 Uptake of CLG, fluorescent L-glucose derivative in the doxorubicin resistant human osteosarcoma cell line
..... *Takahiro Tanabu, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine ...S1679
- 2-P12-5★ Establishment and characterization of a novel myxofibrosarcoma cell line
..... *Naoya Nakahashi, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S1680

15 : 45 ~ 16 : 15 Poster 13 Moderator T. Okamoto
Metastatic bone tumors: diagnosis and treatment

- 2-P13-1 A rare case of femur metastasis from brain meningioma
..... *Yuki Mitani, et al.*, Hiroshima Prefectural Hosp. ...S1681
- 2-P13-2 A case of phyllodes tumor metastatic to the right humerus bone
..... *Mizuki Aketo, et al.*, Dept. of Orthop. Surg., Sapporo Medical Univ. ...S1681
- 2-P13-3 Characteristics of metastatic bone tumors of the extremities diagnosed after pathological fractures *Keiichi Akahori, et al.*, Dept. of Orthop. Surg., Tottori Univ. ...S1682
- 2-P13-4 A case of anterior minimally invasive plate osteosynthesis (anterior MIPO) for humeral shaft metastasis *Takuma Nagaoka, et al.*, Dept. of Orthop. Surg., Nihon Univ. ...S1682

- 2-P13-5 Rehabilitation for prosthetic reconstruction after pathological fracture of femur: A case report
 *Rena Sato, et al.*, Dept. of Rehabilitation, Mie Univ. Hosp. ...S1683
- 2-P13-6 Internal fixation with curettage and calcium phosphate cement augmentation for pathological
 proximal femur fracture *Hiroyuki Araki, et al.*, Ibaraki Prefectural Central Hosp. ...S1683

15 : 30 ~ 16 : 00 Poster 14

Moderator K. Sato

Metastatic bone tumors: outcomes, risks and prognosis

- 2-P14-1 Oncological outcomes of skeletal metastases of unknown primary origin at initial presentation to
 our department *Tatsunobu Kobayashi, et al.*, Dept. of Orthop. and Rehabilitation Medicine,
 Faculty of Medical Sciences, Univ. of Fukui ...S1684
- 2-P14-2★ Incidence of atypical femoral fractures in patients with bone metastases receiving
 denosumab therapy *Hirokazu Tanaka, et al.*, Dept. of Orthop., Juntendo Univ. ...S1684
- 2-P14-3 Surgical results of metastatic bone tumor *Hironori Date, et al.*, Japanese Red Cross Ise Hosp. ...S1685
- 2-P14-4★ Synergistic effects of immune checkpoint inhibitors and denosumab in bone metastases of
 lung cancer *Yohei Asano, et al.*, Dept. of Orthop. Surg.,
 Graduate School of Medical Sciences, Kanazawa Univ. ...S1685
- 2-P14-5 Prognosis and surgical selection for metastatic bone tumors of the lower extremity
 *Daiichiro Takahara, et al.*, Dept. of Orthop. Surg., Yamagata Univ. ...S1686
- 2-P14-6 Risk assessment of femoral pathological fracture using finite element method
 *Tatsuro Saruga, et al.*, Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine ...S1686