The 49th Annual Musculoskeletal Tumor Meeting of the Japanese Orthopaedic Association

Held in Tokyo, July 14 and 15, 2016
Congress President, Kazuo Kaneko
Department of Orthopaedics, Juntendo University
School of Medicine

1st Day  July 14  Room 1

8 : 15~8 : 30  Welcome and Opening Remarks  Congress President  Kazuo Kaneko

8 : 30~9 : 30  Invited lecture 1
   Moderator  K. Kaneko

1-1-IL1  Skeletal deformities associated with bone tumor in children
   …………S. T. Jung, Dept. of Orthop., Chonnam National Univ. Medical School, Gwang-Ju, Korea…S1175

9 : 40~10 : 40  Invited lecture 2
   Moderator  M. Takagi

1-1-IL2  Update on the practice of bone tumor pathology
   ……………………………………………………………..S. Nelson, Univ. of California, Los Angeles, USA…S1175

10 : 50~11 : 50  Invited lecture 3
   Moderator  H. Sugimoto

1-1-IL3  Imaging of bone tumors: Pearls and pitfalls
   ……………………………………………………………..D. Wenger, Dept. of Radiology, Mayo Clinic, Rochester, Minnesota, USA…S1176

12 : 00~13 : 10  Luncheon seminar 1
   Moderator  T. Saito

1-1-LS1  MRONJ: Measures by medical and dental cooperation
   ……………………………………………………………..T. Ueno, Dept. of Dentistry, National Cancer Center Hosp…S1176

13 : 20~14 : 20  Special lecture 1
   Moderator  H. Yoshikawa

1-1-SL1  Targeting essential growth drivers in cancer
   ……………………………………………………………..H. Mano, Dept. of Cellular Signaling, Grad. Sch. Med., The Univ. of Tokyo…S1177

14 : 30~15 : 30  Special lecture 2
   Moderator  T. Ozaki

1-1-SL2  Current status and future outlook for genome-based antibody drug

15 : 40~16 : 40  Special lecture 3
   Moderator  M. Yamazaki

1-1-SL3  Paradigm shift for molecular target therapy in lung cancer and treatment strategy for bone metastasis
   ……………………………………………………………..K. Takahashi, Dept. of Respiratory Medicine, Juntendo Univ. Graduate School of Medicine…S1178

17 : 00~19 : 00  Clinopathologic conference  Moderators  T. Yamaguchi, K. Fukuda, J. Manabe

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   ……………………………………………………………..K. Kumagai, et al., Dept. of Orthop. Surg., Nagasaki Medical Center…S1179

1-1-CC2  Malignant bone tumor of pelvis associated with solitary bone cyst
   ……………………………………………………………..M. Toya, et al., Dept. of Orthop. Surg., National Kyushu Cancer Center…S1179

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1-1-CC4  A tumor of the left femur bone head treated by total hip arthroplasty (THA) as bilateral avascular necrosis of the femoral head ........................................S. Fukusato, et al., Dept. of Orthop. Surg., Koshigaya Municipal Hosp…S1180

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National Cancer Center Hosp. East…S1190

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---------------------------------------------S. Iwata, et al., Div. of Orthop. Surg., Chiba Cancer Center…S1191
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---------------------------------------------F. Nakatani, National Cancer Center, Musculoskeletal Oncology…S1193

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---------------------------------------------T. Ueno, Cancer Institute Hosp…S1194
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---------------------------------------------T. Motoi, Dept. of Pathol., Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp…S1195

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---------------------------------------------Y. Morimoto, et al., Dept. of Orthop. Surg., Nara Medical Univ…S1197
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   ................................. Y. Tanazawa, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp.…S1209

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………………S. Kato, Dept. of Clinical Oncology, Juntendo Univ. Graduate School of Medicine…S1219

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1-4-FP8-6 The efficacy of wide excision of the bone and soft tissue metastatic lesions of renal cell carcinoma

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……E. Kobayashi, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp…S1225


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Randomized phase 1B/2 study ………… A. Kawai, et al., National Cancer Center Hosp…S1226

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…………………………N. Araki, et al., Dept. of Orthop. Surg., Osaka Medical Center for Cancer and Cardiovascular Disease…S1227

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J. Watanabe, et al., Div. of Orthop. Surg., Chiba Cancer Center/Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ...S1230

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H. Katagiri, et al., Div. of Orthop. Surg., Shizuoka Cancer Center—S1285

2-2-S4-2  A paradigm shift in the role of radiotherapy and surgery for the management of symptomatic spinal metastases

H. Hatano, et al., Dept. of Orthop. Surg., Niigata Cancer Center Hosp.—S1285

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K. Oshima, et al., Dept. of Orthop. Surg., Osaka Medical Center for Cancer and Cardiovascular Diseases—S1286

2-2-S4-4  Surgical outcome of spine surgery for spinal metastasis

K. Kakutani, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine—S1286

2-2-S4-5  Treatment results of spinal SREs

E. Nakata, et al., Shikoku Cancer Center—S1287

2-2-S4-6  Establishing the metastatic spine tumor liaison service


2-2-LS6  New therapy for advanced soft tissue sarcoma, with a focus on trabectedin

S. Takahashi, Dept. of Medical Oncology, Cancer Institute Hosp., JFCR—S1288

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Moderator  T. Ueda

2-2-S5-1  The role of physiotherapist in the team approach for patients with bone metastasis

E. Kitahara, et al., Dept. of Rehabilitation, Juntendo Univ.—S1289

2-2-S5-2  Occupational therapy for the case with metastatic bone tumor

H. Shimazaki, et al., Dept. of Rehabilitation, Osaka Pref. Saiseikai Tondabayashi Hosp.—S1289

2-2-S5-3  The role of the physical therapist in the bone metastases tumor board at the University of Tokyo Hospital

M. Takahashi, et al., Dept. of Rehabilitation Medicine, The Univ. of Tokyo Hosp.—S1290

2-2-S5-4  Treatment and evaluation for bone metastases from a physical therapist

Y. Takahara, Faculty of Health and Medical Care, Saitama Medical Univ.—S1290

2-2-S5-5  Role of nurses in the skeletal metastasis care

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K. Kaneko, et al., Dept. of Hosp. Pharmacy, Keio Univ. Hosp.—S1291

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Moderators  T. Tsuji, N. Araki

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Y. Shinoda, et al., Dept. of Rehabilitation Medicine, The Univ. of Tokyo Hosp.—S1292

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E. Aruga, Dept. of Palliative Medicine, Teikyo Univ...S1293

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A. Nakamura, Himawari Home Clinic, Medical Corporation Association...S1294

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M. Ikegami, et al., Dept. of Orthop. Surg., The Univ. of Tokyo...S1295

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A. Takeuchi, et al., Dept. of Orthop. Surg., Kanazawa Univ...S1295

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K. Ac, et al., Dept. of Orthop. Surg., Cancer Institute Ariake Hosp...S1297

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K. Ogura, et al., Dept. of Musculoskeletal Oncology, National Cancer Center Hosp./Dept. of Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo...S1298

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S. Iwata, et al., Div. of Orthop. Surg., Chiba Cancer Center...S1299

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K. Uehara, et al., Dept. of Orthop. Surg., The Univ. of Tokyo Hosp...S1299

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S. Hamada, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1300

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K. Abe, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Kanazawa Univ...S1301

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Y. Nishida, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1302
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2-3-FP11-5 Marriage, fertility and QOL in survivors of childhood, adolescent and young adult high-grade bone and soft tissue sarcoma

T. Yonemoto, et al., Div. of Orthop. Surg., Chiba Cancer Center—S1303

2-3-FP11-6 Pre-chemotherapy preservation of fertility in patients with high-grade malignant bone and soft-tissue tumors

M. Hoshi, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School—S1303

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Moderator N. Ogata

2-3-ES6 Medical rehabilitation of the cancer patients and palliative care

K. Abe, Dept. of Rehabilitation, Chiba Prefectural Univ. of Health Sciences—S1304

10:50~11:50 Seminar of medical history

Moderator S. Sakai

2-3-MH-1 A stream of innovations in French orthopaedic surgery

A. Kobayashi, Société Franco-Japonaise d'Orthopédie—S1305

2-3-MH-2 The period of spreading Western medicine in Japan: Medical education and care in Meiji era

T. Sakai, Dept. of Anatomy and Life Structure, Juntendo Univ.—S1305

2-3-MH-3 Surgery for bone tumors during the early Meiji period in Japan


12:00~13:10 Luncheon seminar 7

Moderator H. Oda

2-3-LS7 This is all you need to master! Essentials of palliative care

K. Tanaka, Dept. of Palliative Care, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.—S1307

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Moderator H. Sugiiura

2-3-ES7 Narrative medicine: Power of storytelling in health care

Y. Kurihara, Dept. of Palliative Care, Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hosp.—S1307

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Moderators K. Ihara, E. Komishii

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H. Aiba, et al., Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences—S1308

2-3-FP12-2 Treatment outcome of soft tissue leiomyosarcoma


2-3-FP12-3 Clinical results of surgical treatment of soft tissue sarcomas in patients aged 75 years or older


2-3-FP12-4 Clinical outcomes of adolescent and young adult patients with soft tissue sarcomas

Y. Tanzawa, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp.—S1309

2-3-FP12-5 The impact of disease free status on the prognosis in metastatic non-small round cell soft tissue sarcomas

H. Urakawa, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ.—S1310

2-3-FP12-6 Clinical evaluation of high grade soft tissue sarcoma based on primary tumor doubling time

K. Asanuma, et al., Dept. of Musculoskeletal Surg., Mie Univ. Graduate School of Medicine—S1310
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2-3-FP12-7 Preoperative diagnosis of myxoid liposarcoma

A. Takazawa, et al., Dept. of Orthop. Surg., Shinshu Univ...

2-3-ES8 Treatment strategy for sarcoma in pediatric patients: Past, present, and future

A. Hosono, Div. of Pediatric Oncology, National Cancer Center East...

2-3-FP13-1 Clinical utility of chimeric gene in nodular fasciitis

K. Hayakawa, et al., Dept. of Orthop. Surg., Cancer Institute Hosp. of the JFCR...

2-3-FP13-2 Variation of MRI findings of nodular fasciitis: Effects from location and chronological changes

T. Ueno, et al., Dept. of Diagnostic Radiol., Cancer Inst. Hosp...

2-3-FP13-3 Clinical results of treatment for desmoid-type fibromatosis

T. Mori, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp...

2-3-FP13-4 Clinical results of local recurrent extra-abdominal desmoid tumors

T. Sakai, et al., Dept. of Orthop. Surg., Nagoya Univ...

2-3-FP13-5 Clinical outcomes and prognostic factors of patients with atypical lipomatous tumor/well differentiated liposarcoma

T. Fujibuchi, et al., Dept. of Bone and Joint Surg., Ehime Univ. Graduate School of Medicine...

2-3-FP13-6 Clinical character of sclerosing and inflammatory subtype of atypical lipomatous tumor

M. Tomita, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagasaki Univ...

2-3-FP13-7 Natural progress of retroperitoneal schwannoma

Y. Kitagawa, et al., Orthop. Surg., Nippon Medical School, Graduate School of Medicine...

2-3-FP13-8 Synovial hemangioma of the knee joint


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                  ...........................................J. Manabe, et al., Dept. of Ortop. Surg., Saitama Cancer Center…S1321

2-4-FP15-4  Reconstruction with heat-treated autografts after intercalary resection for musculoskeletal tumors of the extremity ........................................K. Ikuta, et al., Dept. of Ortop. Surg., Graduate School of Medicine, Nagoya Univ…S1321


2-4-FP15-6  Vascularized fibula grafts for reconstruction of bone defects after resection of bone and soft tissue sarcomas  …M. Emori, et al., Dept. of Ortop. Surg., Sapporo Medical Univ…S1322

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2-4-FP16-1  Safe surgical margins vary in representative bone sarcomas expressed by new evaluation method of surgical margin
                  ...........................................K. Ac, et al., Dept. of Ortop. Surg., Cancer Institute Ariake Hosp…S1323

2-4-FP16-2  In situ preparation for malignant bone and soft tissue tumors in extremities
                  ...........................................K. Aoki, et al., Dept. of Applied Physical Therapy, Shinshu Univ…S1323

2-4-FP16-3  Surgical treatment for local recurrences after wide resection of soft-tissue sarcomas
                  ...........................................H. Sugimura, et al., Dept. of Physical Therapy of Rehabilitation, Nagoya Univ…S1324

2-4-FP16-4  Surgical management of pelvic bone sarcoma involving the sacroiliac joint
                  ...........................................T. Okamoto, et al., Dept. of Ortop. and Musculoskeletal Surg., Graduate School of Medicine, Kyoto Univ…S1324

2-4-FP16-5  Therapy with acridine orange for soft tissue and bone sarcomas at our hospital
                  ...........................................T. Tsuichiya, et al., Dept. of Ortop. Surg., Yamagata Univ…S1325

2-4-FP16-6  Clinical outcomes for infection of tumor prosthesis of the knee joint
                  ...........................................T. Tanizawa, et al., Dept. of Ortop. Oncology., Cancer Institute Hosp…S1325

| 10:50~11:50 | Instructional lecture 9    Moderator  T. Shimoji |
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2-4-ES9  The points of plastic and reconstructive surgery for musculoskeletal oncology
      ...........................................M. Nakagawa, et al., Div. of Plastic and Reconstructive Surg., Shizuoka Cancer Center Hosp…S1326

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                  ...........................................H. Kawano, Dept. of Ortop. Surg., Teikyo Univ…S1326

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2-4-FP17-1  Descriptive epidemiology of bone sarcoma in Japan: Statistics from the Bone and Soft Tissue Tumor Registry in Japan
                  ...........................................K. Ogura, et al., Dept. of Musculoskeletal Oncol., National Cancer Center Hosp…S1327

2-4-FP17-2  Treatment for osteosarcoma in patients older than 40 years
                  ...........................................K. Hayakawa, et al., Dept. of Ortop. Surg., Cancer Institute Hosp. of the JFCR…S1327

2-4-FP17-3  Treatment of primary malignant bone sarcoma over 40
                  ...........................................A. Nagano, et al., Dept. of Ortop. Surg., Gifu Univ. Sch. of Med…S1328

2-4-FP17-4  Prognostic significance of undifferentiated round cell sarcoma: Comparison with Ewing’s sarcoma
                  ...........................................T. Ariizumi, et al., Div. of Ortop. Surg., Niigata Univ. Graduate School of Medicine and Dental Sciences…S1328

2-4-FP17-5  Clinical outcome of chondrosarcoma in trunk and limb girdle
                  ...........................................Y. Yoshimura, et al., Dept. of Rehabilitation Medicine, Shinshu Univ…S1329
2-4-FP17-6  The efficiency of bone and thallium scintigraphy in diagnosis of chondrosarcoma and chondroblastic osteosarcoma       Y. Taniguchi, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Kanazawa Univ...S1329

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M.C. Kim, et al., Dept. of Orthop. Surg., Chonnam National Univ. Hosp., Gwangju, Korea...S1340

High-grade osteosarcoma: A single institution's experience over 20 years

T. Matsunobu, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1341

A treatment strategy for osteosarcoma with pulmonary metastasis at the diagnosis

N. Akita, et al., Dept. of Pediatrics, National Organization Nagoya Medical Center...S1341

Clinical outcome of patients older than 40 years with osteosarcoma in our institutions

Y. Imura, et al., Dept. of Orthop. Surg., Osaka Medical Center for Cancer and Cardiovascular Diseases...S1342

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K. Akaike, et al., Dept. of Orthop., Juntendo Univ./Dept. of Human Pathology, Juntendo Univ...S1344

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T. Hirokawa, et al., Dept. of Orthop. Surg., Univ. of Toyama...S1344

A case of secondary osteosarcoma arising in poli-ostotic fibrous dysplasia

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Two cases of malignant giant cell tumor of bone in our hospital

K. Kawamani, et al., Dept. of Orthop. Surg., Aichi Medical Univ...S1345

A case of tibia adamantinoma where natural progress of 18 years was observed

K. Abe, et al., Orthop. Surg., Nippon Medical School, Graduate School of Medicine...S1346

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*Poster 37 Malignant bone tumors 4*

**Moderator I. Fujita**

- **2-P1-PS37-1** Two cases of malignant lymphoma of bone who were once diagnosed as SAPHO syndrome
  - M. Watanuki, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine…S1350

- **2-P1-PS37-2** Unresectable angiosarcoma of bone treated with paclitaxel and radiotherapy
  - S. Toki, et al., Dept. of Orthop. Surg., Institute of Biomedical Sciences Tokushima Univ. Graduate School/Dept. of Musculoskeletal Oncology, National Cancer Center…S1350

- **2-P1-PS37-3** Experience of hip rotationplasty in our dept.
  - N. Miyata, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagasaki Univ.…S1351

- **2-P1-PS37-4** Case report of the lymphaticovenular anastomosis was effective for postoperative lymphorrhea

- **2-P1-PS37-5** Clinicopathological findings and treatment results of BCOR-CCNB3 sarcoma: How should we treat this tumor?
  - M. Sugawara, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp.…S1352

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*Poster 18 Benign soft tissue tumors 1*

**Moderator M. Kaya**

- **2-P3-PS18-1** Two cases of pigmented villonodular synovitis of spine

- **2-P3-PS18-2** Localized pigmented villonodular synovitis: A study of 4 cases

- **2-P3-PS18-3** A case of knee pigmented villonodular synovitis that were followed up for 20 years from the time of birth

- **2-P3-PS18-4** Pigmented villonodular synovitis around the elbow joint that required upper arm amputation

- **2-P3-PS18-5** The clinical outcome of the giant cell tumor of tendon sheath of the finger
  - M. Miyagi, et al., Dept. of Orthop. Surg., Hamamatsu Red Cross Hosp.…S1355

- **2-P3-PS18-6** Rare cases of intra-articular tumor of the knee with difficulty in preoperative diagnosis
  - T. Hagino, et al., The Sports Medicine and Knee Center, Kofu National Hosp.…S1355

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*Poster 19 Benign soft tissue tumors 2*

**Moderator Y. Kitagawa**

- **2-P3-PS19-1** Genetic analysis on core-needle biopsy section by real-time PCR in lipoma and atypical lipomatous tumor

- **2-P3-PS19-2** Necrotic lipoma at the posterior thigh mimicking liposarcoma
  - T. Ohki, et al., Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo…S1356

- **2-P3-PS19-3** Comparison of the clinical characters of lipoma and atypical lipomatous tumor/well-differentiated liposarcoma, 70 cases
  - H. Inatani, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Kanazawa Univ.…S1357

- **2-P3-PS19-4** Clinical and pathological characteristics of well-differentiated liposarcoma of the extremity

- **2-P3-PS19-5** Well-differentiated liposarcoma of extremities and trunk wall: A study of local recurrence cases
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2-P3-PS23-6  Rapidly growing cellular angiofibroma: A case report  

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H. Kimura, et al., Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences/Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Kanazawa Univ.—S1379

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Y. Nishida, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ.

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Y. Tome, et al., Orthop. Surg., Univ. of the Ryukyus

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Y. Yamada, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School

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K. Saito, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Gunma Univ.

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M. Hoshi, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School

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H. Futani, et al., Dept. of Orthop. Surg., Hyogo College of Medicine

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S. Yoshida, et al., Dept. of Orthop. Surg., Miyagi Cancer Center

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Y. Aoki, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Kanazawa Univ.

Clinical course of Langerhans cell histiocytosis particularly solitary bony lesion followed in our institute

H. Sasuki, et al., Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.

Langerhans cell histiocytosis of the clavicle in an adult: A case report and review of the literature


A case of acetabular osteoid osteoma treated by CT guided ablation with semi-open method and intraoperative imaging


Osteoid osteoma of hand and foot

T. Komatsubara, et al., Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine

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Y. Aoki, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Kanazawa Univ.

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