The 48th Annual Musculoskeletal Tumor Meeting of the Japanese Orthopaedic Association

Held in Takamatsu, July 9 and 10, 2015
Congress President, Tetsuji Yamamoto
Department of Orthopaedic Surgery, Kagawa University
Faculty of Medicine

1st Day July 9 Room 1

8 : 20~8 : 30 Welcome and opening remarks Congress President Tetsuji Yamamoto

8 : 30~10 : 30 Symposium 1 Palliative and mental care Moderators K. Takagishi, A. Kawai

1-1-S1-1 The current state of the terminal care of bone and soft tissue sarcoma patients in our hospital
.......................................................................... S. Nishimura, et al., Dept. of Orthop. Surg., Kindai Univ…S1183

1-1-S1-2 Symptom burden and palliative care for patient with advanced bone and soft tissue sarcoma
Graduate School of Medicine and Dental Sciences…S1183

1-1-S1-3 Total care management of malignant bone and soft tissue tumor patients: Palliative care, community based care cooperation and beyond

1-1-S1-4 Clinical course of palliative care in musculoskeletal tumor cases
.......................................................................... M. Takeyama, et al., Div. of Musculoskeletal Tumor Surg., Kanazawa Cancer Center…S1184

1-1-S1-5 Mental care for long-term survivors of pediatric and adolescent osteosarcoma
.......................................................................... T. Yonemoto, et al., Div. of Orthop. Surg., Chiba Cancer Center…S1185

1-1-S1-6 Childbirth of cancer survivors after chemotherapy for high grade bone and soft tissue tumors
.......................................................................... M. Hoshi, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate School of Medicine …S1185

1-1-S1-7 The community which established to support patients with sarcoma in the Fukushima Medical University Hospital …H. Yamada, et al., Dept. of Orthop. Surg., Fukushima Medical Univ…S1186

10 : 40~11 : 40 Invited lecture 1 Moderator K. Kusuzaki

1-1-IS1 Pelvic surgery in primary bone sarcoma …………D.M. Donati, Univ. of Bologna, Bologna, Italy…S1187

13 : 20~14 : 20 Special lecture Moderator Y. Iwamoto

1-1-SL Education in Orthop. oncology ……………………………………………….. A. Uchida, Mie Univ…S1187

14 : 30~15 : 30 Invited lecture 2 Moderator M. Fujii

1-1-IS2 Dilemmas and pitfalls in imaging of musculoskeletal tumors
................................................................……….. M.D. Murphey, American Institute for Radiologic Pathology, Silver Spring, MD, USA…S1188

15 : 40~16 : 40 Invited lecture 3 Moderator E. Konishi

1-1-IS3 The emerging molecular taxonomy of vascular tumors
................................................................................................................................................. R. Brian, Cleveland Clinic, Cleveland, OH, USA…S1188
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1-CC-1</td>
<td>A case report of malignant bone tumor of femur diaphysis</td>
<td>H. Shimada, et al., Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.</td>
<td>S1189</td>
</tr>
<tr>
<td>1-1-CC-2</td>
<td>Tumor of sacral bone</td>
<td>Y. Sugiura, et al., Dev. of Pathol., Cancer Institute Ariake Hosp.</td>
<td>S1189</td>
</tr>
<tr>
<td>1-1-CC-3</td>
<td>Bone tumor of proximal tibia</td>
<td>G. Nakamura, et al., Dept. of Orthop. Surg., Osaka Medical College</td>
<td>S1190</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8:30~10:30</th>
<th>Learn pathology</th>
<th>Moderators</th>
<th>T. Yamaguchi, S. Fukunaga</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2-LP-2</td>
<td>Immunohistochemistry</td>
<td>T. Hirose, Dept. of Pathol., Hyogo Cancer Center</td>
<td>S1191</td>
</tr>
<tr>
<td>1-2-LP-3</td>
<td>Genetic diagnosis</td>
<td>N. Naka, Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ.</td>
<td>S1192</td>
</tr>
<tr>
<td>1-2-LP-4</td>
<td>Fluorescence in situ hybridization</td>
<td>T. Hasagawa, et al, Dept. of Pathol., Graduate School of Medicine, Sapporo Medical Univ.</td>
<td>S1192</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10:40~11:40</th>
<th>Invited lecture 4</th>
<th>Moderator</th>
<th>M. Takahashi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2-IS4</td>
<td>Strontium-89 in the management of painful bone metastases</td>
<td>M. Yoshimura, Dept. of Radiology, Tokyo Medical Univ.</td>
<td>S1193</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12:00~13:10</th>
<th>Lancheon seminar 1</th>
<th>Moderator</th>
<th>H. Tsuchiya</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2-LS1</td>
<td>Strategy of treatment for late-stage musculoskeletal tumor patients: From pain control to gene therapy</td>
<td>S. Nagano, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.</td>
<td>S1193</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14:30~15:30</th>
<th>Invited lecture 5</th>
<th>Moderator</th>
<th>K. Mochizuki</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2-IS5</td>
<td>Recent progress in cancer anorexia-cachexia syndrome</td>
<td>A. Inui, Dept. of Psychosomatic Internal Medicine, Kagoshima Univ. Graduate School of Medical &amp; Dental Sciences</td>
<td>S1194</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15:40~16:40</th>
<th>Free paper 1 Rehabilitation</th>
<th>Moderators</th>
<th>T. Ishii, K. Harimaya</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2-FP1-1</td>
<td>Rehabilitation for the patients who had wide resection of the soft tissue sarcomas in the lower leg</td>
<td>N. Watanabe, et al., Musculoskeletal Oncology and Rehabilitation, National Cancer Center Hosp.</td>
<td>S1195</td>
</tr>
<tr>
<td>1-2-FP1-2</td>
<td>Investigation of function and QOL after wide resection of malignant soft tissue sarcoma at thigh</td>
<td>T. Watanabe, et al., Dept. of Orthop. Surg., Tokai Univ.</td>
<td>S1195</td>
</tr>
<tr>
<td>1-2-FP1-3</td>
<td>Functional outcome of limb salvage using endoprostheses for the malignant bone tumor of distal part of femur</td>
<td>S. Minamibata, et al., Dept. of Rehabil., Mie Univ. Hosp.</td>
<td>S1196</td>
</tr>
<tr>
<td>1-2-FP1-4</td>
<td>Postoperative lower limbs functional outcomes in patients of pelvic bone sarcoma</td>
<td>R. Terauchi, et al., Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine</td>
<td>S1196</td>
</tr>
</tbody>
</table>
1-2-FP1-5 Early rehabilitation using temporary external fixator following resection of pelvic sarcoma
   …… T. Kunisada, et al., Dept. of Medical Materials for Musculoskeletal Reconstruction,
   Okayama Univ. Graduate School of Medicine…S1197

1-2-FP1-6 Impact of hip joint stabilization on functional outcome following resection of tumor located
   around the circumference of the pelvis
   …. T. Akiyama, et al., Dept. of Orthop. Surg., Saitama Medical Center, Jichi Medical Univ…S1197

1-2-FP1-7 Current status and issues of rehabilitation for patients with bone and soft tissue tumors in a
   cancer center hospital … T. Osanai, et al., Dept. of Orthop. Surg., Hokkaido Cancer Center…S1198

1-3-FP2-1 Long-term outcome of limb-sparing surgery using recycled-bone autograft following the
   resection of primary bone sarcoma
   ………………………………………… T. Okamoto, et al., Dept. of Orthop. and Musculoskeletal Surg.,
   Graduate School of Medicine, Kyoto Univ…S1199

1-3-FP2-2 Reconstruction using recycled frozen autograft after hemicortical resection for osteosarcoma
   …………… Y. Aoki, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System,
   Graduate School of Medical Science, Kanazawa Univ…S1199

1-3-FP2-3 Joint sparing surgery using recycled tumor bearing auto graft for osteosarcoma
   ………………………………………… M. Miyagi, et al., Div. of Orthop. Oncol., Shizuoka Cancer Center…S1200

1-3-FP2-4 Long term results over 10 years of pasteurized autologous bone graft reconstruction after
   resection of bone tumor ………………………………………… T. Matsumoto, et al., Dept. of Orthop. Surg.,
   Graduate School of Medical Sciences, Kyushu Univ…S1200

1-3-FP2-5 Reconstruction using vascularized fibula and pasteurized bone graft after wide resection of
   Kure Medical Center and Chugoku Medical Center…S1201

1-3-FP2-6 Long-term results of heat-treated bone autograft in patients with limb salvage surgery
   followed for more than 10 years

1-3-FP2-7 Comparison of treated bone autograft for limb reconstruction after wide excision of malignant
   bone and soft tissue tumors in our department

1-3-FP2-8 Recycled hemicortical autologous bone graft for bone and soft tissue sarcoma
   ………………………………………… A. Matsumine, et al., Dept. of Musculoskeletal Surg.,
   Mie Univ. Postgraduate School of Medicine…S1202

1-3-FP3-1 Usefulness of ultrasonography-guided soft tissue tumor excision
   ……… A. Takeuchi, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System,
   Graduate School of Medical Science, Kanazawa Univ…S1203

1-3-FP3-2 Efficacy of LigaSure™ system for hip disarticulation surgery in sarcoma patients
   …………… N. Yamamoto, et al., Dept. of Orthop. Surg., Graduate School of Medical Science,
   Kanazawa Univ…S1203

1-3-FP3-3 Navigation system for resection of bone and soft tissue tumor
   ……… T. Kunisada, et al., Dept. of Medical Materials for Musculoskeletal Reconstruction,
   Okayama Univ. Graduate School of Medicine…S1204
1-3-FP3-4 Novel approach to achieve necessary and sufficient surgical margin for bone tumor using computer-assisted navigation
Y. Funauchi, et al., Dept. of Orthop. Surg., Cancer Institute Ariake Hosp.…S1204

1-3-FP3-5 The efficacy and safety of computer navigation-assisted surgery of patients with a musculoskeletal tumor of trunk
H. Kobayashi, et al., Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo…S1205

1-3-FP3-6 Middle-term clinical outcome of myxoid liposarcoma and efficacy of hyperthermia with radiotherapy, and relevance of tumor-reduction and histological factor
N. Yokoyama, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ.…S1205

10 : 40～11 : 40 Invited lecture 6
Moderator H. Yoshikawa

1-3-IS6 Robot-assisted surgery: The present and foresight
A. Takenaka, Dept. of Surg., Div. of Urology, Faculty of Medicine, Tottori Univ./Minimally Invasive Surg. Center, Tottori Univ. Hosp.…S1206

12 : 00～13 : 10 Luncheon seminar 2
Moderator S. Komiya

1-3-LS2 Development of a research and a care network is crucial for the effectual treatment of patients with bone and tissue sarcoma
Y. Nishida, Dept. of Orthop. Surg., Nagoya Univ. Graduate School of Medicine…S1206

14 : 30～15 : 30 Instructional lecture 1
Moderator Y. Beppu

1-3-ES1 Pits and knacks on the initial presentation of individual with soft tissue tumor
K. Okada, Dept. of Physical Therapy, Akita Univ. Graduate School of Health Science…S1207

15 : 40～16 : 40 Invited lecture 7
Moderator N. Araki

1st Day July 9 Room 4

8 : 30～9 : 30 Free paper 4 Artificial materials
Moderators H. Murata, T. Yanagawa

1-4-FP4-1 Mid- and long-term clinical outcome of artificial bone graft for benign bone tumor
T. Higuchi, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Graduate School of Medical Science, Kanazawa Univ.…S1208

1-4-FP4-2 Regeneration of the fibula using a beta-tricalcium phosphate in children
T. Sekita, et al., Dept. of Orthop. Surg., Keio Univ.…S1208

1-4-FP4-3 Artificial bone graft using novel interconnected porous hydroxyapatite in surgical treatment of bone tumors
K. Takeda, et al., Dept. of Intelligent Orthop. System, Okayama Univ. Graduate School of Medicine…S1209

1-4-FP4-4 The outcome and the change of using calcium phosphate: Collagen material in bone defects
A. Hyodo, et al., Dept of Orthop. Oncology, Saitama Cancer Center…S1209

1-4-FP4-5 Long term follow-up of porous hydroxyapatite/collagen composite-implant sites
S. Sotome, et al., Dept. of Orthop. and Spinal Surg., Tokyo Medical and Dental Univ., Graduate School…S1210

1-4-FP4-6 The treatment of the implant infection using a combination of antibiotic loaded materials
K. Matsuo, et al., Dept. of Orthop. Surg., Yokohama City Univ. Graduate School of Medicine…S1210
1-4-FP4-7  Reconstruction for diaphyseal defect after tumor resection by using bone cement reinforced with metal mesh  
T. Gokita, et al., Dept. of Orthop. Oncol., Cancer Institute Hosp…S1211

**9:40~11:40 Symposium 2**

**Moderators**: A. Ogose, H. Hiraga

**Long-term outcome of mega-prosthesis**

1-4-S2-1  The utility of the tumor prostheses judged from long follow up  

1-4-S2-2  Long-term results of prosthetic arthroplasty for malignant bone tumor around the knee  
K. Nishimoto, et al., Dept. of Orthop. Surg., Keio Univ…S1212

1-4-S2-3  Minimum 20-year results of function and return to work after lower extremity reconstruction with tumor endoprostheses  
H. Hatano, et al., Dept. of Orthop. Surg., Niigata Cancer Center Hosp…S1213

1-4-S2-4  Long-term results of tumor prosthesis replacement after tumor excision: Over 20 years follow-up  
T. Shirai, et al., Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine/Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Kanazawa Univ…S1213

1-4-S2-5  Clinical outcome in prosthetic replacement for musculoskeletal tumor  
K. Hamada, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ…S1214

1-4-S2-6  Long-term (more than 20 years) results of endoprosthetic reconstruction of the knee joint  
T. Tanizawa, et al., Dept. of Orthop. Oncology, Cancer Institute Ariake Hosp…S1214

**12:00~13:10 Luncheon seminar 3**

**Moderator**: T. Ueda

1-4-LS3  A role of anti-RANKL antibody in the treatment for giant cell tumor of bone  
H. Morioka, Dept. of Orthop. Surg., Keio Univ…S1215

**14:30~16:30 Symposium 3**

**Moderators**: I. Fujita, T. Nojima

**Cancer Board of malignant musculoskeletal tumors**

1-4-S3-1  Management and treatment of soft tissue sarcoma patients by medical oncologists in multidisciplinary center  
K. Nakano, et al., Dept. of Medical Oncol., Cancer Institute Ariake Hosp…S1216

1-4-S3-2  Necessity of collaboration with the various department in retroperitoneal tumors  
T. Yasuda, et al., Dept. of Orthop. Surg., Univ. of Toyama…S1216

1-4-S3-3  The significance and problems of Cancer Board of bone and soft tissue tumor in Fukushima Medical University Hospital  
H. Yamada, et al., Dept. of Orthop. Surg., Fukushima Medical Univ…S1217

1-4-S3-4  Clinical role of Cancer Board for musculoskeletal tumor  
H. Kobayashi, et al., Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo…S1217

1-4-S3-5  The role of the Orthop. surgeon in the field of clinical oncology  
A. Matsumine, et al., Dept. of Musculoskeletal Surg., Mie Univ. Postgraduate School of Medicine…S1218

1-4-S3-6  Risk management and assessment of pediatric cancer patients in a multidisciplinary Cancer Board  
M. Sasa, et al., Dept. of Orthop. Surg., Keio Univ…S1218

---

1-5-FP5-1  Mutant IDH1 dysregulates the differentiation of mesenchymal stem cells in association with gene-specific histone modifications to cartilage- and bone-related genes  
Y. Jin, et al., Dept. of Tissue Regeneration, Institute for Frontier Medical Sciences, Kyoto Univ…S1219
1-5-FP5-2 Round cell component-specific microRNA regulates cancer malignancy in myxoid liposarcoma
Dept. of Orthop. Surg., Yokohama City Univ…S1219

1-5-FP5-3 microRNA-301a promotes cell proliferation via targeting of PTEN in Ewing’s sarcoma cells
M. Kawano, et al., Dept. of Orthop. and Traumatol., Oita Univ…S1220

1-5-FP5-4 BCOR-CCNB3 fusion gene positive Ewing-like sarcoma: Case report with 3 patients
H. Park, et al., Dept. of Orthop. and Musculoskeletal Surg.,
Graduate School of Medicine, Kyoto Univ…S1220

1-5-FP5-5 Proteomic approaches of EWS/FLI1 fusion gene in Ewings’ sarcomas
Y. Suehara, et al., Dept. of Orthop., Juntendo Univ.…S1221

1-5-FP5-6 Proteomics of Rhabdomyosarcoma with emphasis on the PAX3-FOXO1 fusion gene
K. Akaike, et al., Dept. of Orthop., Juntendo Univ…S1221

1-5-FP5-7 Foundation of Japanese Sarcoma Genome Consortium for genomic analysis
K. Matsuda, et al., Institute of Medical Science, The Univ. of Tokyo…S1222

1-5-FP6-1 Establishment of adriamycin-resistant synovial sarcoma cell lines and pazopanib-resistant cell lines, and examination of mechanism for drug resistance
N. Yokoyama, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ…S1223

1-5-FP6-2 The combination of rapamycin and MAPK inhibitors improves the growth inhibitory effect of Nara-H cell

1-5-FP6-3 Antitumor effect by Hsp90 inhibitor on osteosarcoma cell line
M. Mori, et al., Dept. of Orthop. Surg., Kagawa Univ…S1224

1-5-FP6-4 Suppression of hyaluronan synthesis in human MPNST cells demonstrates anti-tumor effects both in vitro and in vivo model of xenograft
K. Ikuta, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ…S1224

1-5-FP6-5 The role of hyaluronan on proliferation of primary and metastatic bone malignancies
H. Urakawa, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ…S1225

1-5-FP6-6 Antitumor effects of TAS-115 against synovial sarcoma cell lines
S. Yamada, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ…S1225

1-5-FP6-7 A functional role of MET signaling in synovial sarcoma and a potential biomarker predicting the sensitivity to a MET inhibitor
Y. Imura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ…S1226

1-5-FP7-1 Apoptosis and anti-tumor effect induced by mTOR inhibitor and autophagy inhibitor in human osteosarcoma cells
R. Horie, et al., Dept. of Orthop. Surg., Kagawa Univ…S1227

1-5-FP7-2 Combination effects of Smac mimetics with doxorubicin on osteosarcoma cells
E. Kamata, et al., Dept. of Orthop. Surg., Kobe Univ Graduate School of Medicine…S1227

1-5-FP7-3 Identification of circulating miRNA derived from patient serum of synovial sarcoma
Okayama Univ. Graduate School of Medicine…S1228

1-5-FP7-4 Inhibitory effects of pazopanib during the metastatic formation in mice undifferentiated pleomorphic sarcoma and osteosarcoma
K. Watanabe, et al., Dept. of Orthop. Surg., Univ. of Toyama…S1228

1-5-FP7-5 Antitumor effects of trabectedin on clear cell sarcoma cell lines
T. Nakai, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ…S1229
1-5-FP7-6  Optimization of treatment conditions for the anticancer effects of transcutaneous CO2 application in vivo  
T. Ueha, et al., Div. of Rehabilitation Medicine, Kobe Univ. Graduate School of Medicine…S1229

1-5-LS4  Tumor prosthesis: Where we are today and where we need to go  
A. Matsumine, Dept. of Orthop. Surg., Mie Univ. Graduate School of Medicine…S1230

1-5-FP8-1  MRI characteristics and clinical presentations of nodular fasciitis  
M. Ikegami, et al., Dept. of Orthop. Surg., Komagome Hosp.…S1231
1-5-FP8-2  MR imaging and tumor volume doubling time of spindle cell lipoma  
M. Ikegami, et al., Dept. of Orthop. Surg., Komagome Hosp.…S1231
1-5-FP8-3  Review of 5 cases of angioleiomyoma in fingers and hands  
1-5-FP8-4  Clinical outcome of extra abdominal desmoid  
Y. Murakashi, et al., Orthop. Surg., Graduate School of Medicine, Sapporo Medical Univ.…S1232
1-5-FP8-5  Expression of RANKL related genes in tenosynovial giant cell tumor  
T. Sasaki, et al., Div. of Orthop. Surg., Niigata Univ. Graduate School of Medicine and Dental Sciences…S1233
1-5-FP8-6  Treatment outcome of pigmented villonodular synovitis in 18 cases  
H. Inatani, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Graduate School of Medical Science, Kanazawa Univ.…S1233

15 : 25~16 : 35  Free paper 9  Reconstructive surgery  
N. Kawahara, N. Yamamoto

1-5-FP9-1  Factors predicting functional outcome after malignant pelvic tumor resection  
S. Iwata, et al., Oncology Unit, Royal Orthop. Hosp.…S1234
1-5-FP9-2  Functional evaluation of the upper extremity after scapulectomy  
Y. Mimata, et al., Dept. of Orthop. Surg., Iwate Medical Univ.…S1234
1-5-FP9-3  Scapulectomy for malignant bone and soft tissue tumor  
K. Aoki, et al., Dept. of Rehabilitation Medicine, Shinshu Univ.…S1235
1-5-FP9-4  Surgical tissue reconstruction for musculoskeletal sarcoma  
N. Kodama, et al., Dept. of Orthop. Surg., Shiga Univ. of Medical Science…S1235
1-5-FP9-5  Vascularized fibular graft for the bone defect after resection of tumors  
C. Futemma, et al., Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus…S1236
1-5-FP9-6  Vascularised fibula head graft for oncologic shoulder joint reconstruction in locally aggressive bone tumors  
T. Kubo, et al., Dept. of Orthop. Surg., Graduate School of Biomedical Sciences, Hiroshima Univ.…S1236
1-5-FP9-7  Clinical results of reconstruction with FVFG following resection of the tumor the distal end of the radius  
T. Tanizawa, et al., Dept. of Orthop. Surg., Cancer Institute Ariake Hosp.…S1237
1-5-FP9-8  Reconstruction with frozen autograft for femoral bone and soft tissue tumor  
Y. Tome, et al., Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus…S1237

14 : 30~14 : 51  Poster 1  Basic science 1  
T. Okamoto

1-P-PS1-1  Effect of metformin to myeloid derived suppressor cells in murine osteosarcoma  
T. Uchida, et al., Dept. of Orthop., Okayama Univ. Graduate School of Medicine…S1238
YM155, a novel small-molecule survivin suppressant, reduces progression of human osteosarcoma cells ........................................... M. Minoda, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1238

Combination of arsenic trioxide and conventional anti-cancer drug prevent osteosarcoma growth ........................................... M. Nagata, et al., Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ...S1239

Cellular stress induces GDF15 expression in osteosarcoma cells ............................................................... T. Hirozane, et al., Dept. of Orthop. Surg., Keio Univ...S1239

Antitumor effect by GSK-3 inhibitor on osteosarcoma cell line ................................................................. H. Nishimura, et al., Dept. of Orthop. Surg., Kagawa Univ...S1240

HEY1 via matrix metalloproteinase 9 regulates invasion and lung metastasis of osteosarcoma ........................................... A. Tsuru, et al., Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ...S1240

Apoptotic effect of AICAR on an osteosarcoma cell lines ................................................................. M. Morishita, et al., Dept. of Orthop Surg., Kobe Univ...S1241

The development of novel therapy targeting metabolic pathway dysregulated in doxorubicin-resistant bone and soft tissue sarcomas ........................................... Y. Kim, et al., Dept. of EPOC, NCC/Dept. of Orthop., Juntendo Univ./...S1242

Investigation of drug-resistant mechanism of malignant peripheral nerve sheath tumor ........................................... S. Fukushima, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1242

Fluorescence-guided surgery improves outcome in an orthotopic osteosarcoma nude-mouse model ........................................... S. Miwa, et al., Dept. of Orthop. Surg., Graduate School of Medical Science, Kanazawa Univ...S1243

The efficacy of fluorescence-guided surgery of retroperitoneal-implanted human fibrosarcoma in nude mice ........................................... F. Uehara, et al., Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus...S1243

The combined effect of tumor-specific oncolytic adenovirus and radiotherapy on bone and soft tissue sarcoma cells ........................................... T. Omori, et al., Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1244

Zoledronic acid and telomerase specific oncolytic adenovirus combination therapy increases antitumor effect and inhibit osteolysis against osteosarcoma ........................................... Y. Yamakawa, et al., Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1244

The evaluation of cortical bone regeneration used CPC-gelatin powder composite ........................................... F. Murakoshi, et al., Nagayama Hosp...S1245

Analysis of microRNA 143/145 expression between high lung-metastatic variant of human osteosarcoma cells and parental cells and parental osteosarcoma cells ........................................... Y. Tome, et al., Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus...S1246

Establishment of Ewing sarcoma model mice ........................................... S. Komura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Gifu Univ...S1246

Cadherin-11 regulates the metastasis of Ewing sarcoma cells to bone ........................................... M. Hatano, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1247
1-P-PS3-4  Cell growth inhibition induced by plasma (NEAPP) on cultured osteosarcoma cells
.............................................. M. Kanamori, et al., Dept of Human Science 1, Univ. of Toyama…S1247

1-P-PS3-5  Development of high-specific anti-podoplanin mAb and examination of its usefulness in os-
teosarcoma ....................................... H. Oki, et al., Dept. of Orthop. Surg., Yamagata Univ…S1248

1-P-PS3-6  Chromosomal alteration identified in Ollier disease with malignant transformation
................................................ T. Kurihara, et al., Dept. of Orthop. Oncology and Surg., Saitama Medical Univ. International Medical Center…S1248

1-P-PS3-7  Clinical behavior of BCOR-CCNB3 positive sarcoma
.............................................. T. Nakayama, et al., Dept. of Orthop. Oncology, Cancer Institute…S1249

1-P-PS4-1  Intraosseous leiomyoma, case report and review of the literature …A.H.K. Abdelaal, et al.,
Dept. of Orthop. Surg., Graduate School of Medical Science, Kanazawa Univ./
Dept. of Orthop. Surg., Faculty of Medicine, Sohag Univ., Sohag, Egypt…S1250

1-P-PS4-2  A case of pathological fracture of the right femur in fibrocartilaginous dysplasia
.............................................. Y. Kamata, et al., Dept. of Orthop. Surg., Keio Univ…S1250

1-P-PS4-3  Fibrocartilaginous dysplasia in the proximal femur, a case report
.............................................. N. Iida, et al., Dept. of Orthop. Surg., Kagawa Univ…S1251

1-P-PS4-4  Multiple non-ossifying fibroma suspected as Jaffe-Campanacci syndrome: A case report
.............................................. H. Tada, et al., Dept. of Orthop. Surg., Yokohama City Univ. Graduate School of Medicine …S1252

1-P-PS4-5  Computer-assisted tumor resection for a case with hip osteochondroma
 …Y. Ata, et al., Dept. of Orthop. Surg., Yokohama City Univ. Graduate School of Medicine …S1252

1-P-PS4-6  Chondromyxoid fibroma of the femoral Paper chondrosarcoma on FDG PET/CT
.............................................. T. Okada, et al., Dept. of Orthop. Surg., Hyogo College of Medicine…S1252

1-P-PS5-1  Recurrent fibrolipomatous hamartoma of nerve involving deep peroneal nerve

1-P-PS5-2  Spinal schwannoma with bone destruction, mimicking malignant tumor
.............................................. T. Okubo, et al., Dept. of Orthop. Oncology and Surg., Saitama Medical Univ. International Medical Center…S1253

1-P-PS5-3  Myoepithelioma arising in the thigh: A case report

1-P-PS5-4  Superficial acral fibromyxoma occuring in the palm: A case report

1-P-PS5-5  Two cases of desmoplastic fibroblastoma (collagenous fibroma)
.............................................. K. Kamagai, et al., Dept. of Orthop. Surg., Nagasaki Medical Center…S1255

1-P-PS5-6  A case of IgG4-related disease which consulted the chief complaint in the right upper extre-

1-P-PS5-7  Surgical results of plexiform schwannoma: A report of 3 cases
 ……T. Yamashita, et al., Orthop. Surg., Graduate School of Medicine, Univ. of the Ryukyus…S1256

1-P-PS6-1  Hibernoma showing high uniform accumulation on FDG-PET Scan: Report of a case
.............................................. Y. Kamata, et al., Dept. of Orthop. Surg., Keio Univ…S1257

1-P-PS6-2  A case of soft tissue tumors of the foot with diffuse bone pains
.............................................. R. Arai, et al., Orthop. Surg., Hokkaido Univ., Graduate School of Medicine…S1257
1-P-PS6-3 Two cases of multicentric localized giant cell tumor of tendon sheath…G. Maruyama, et al., Orthop. Surg., Nippon Medical School, Graduate School of Medicine…S1258
1-P-PS6-4 A case of tenosynovial giant cell tumor, localized type of the knee joint in a child …K. Yamaga, et al., Dept. of Orthop. Surg., Tottori Univ…S1258
1-P-PS6-5 A case report of benign granular cell tumor in the back presenting untypical radiological findings …K. Iida, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School…S1259
1-P-PS6-6 A case of hemangioma with Kasabach-Merritt syndrome in adult …M. Saito, et al., Dept. of Orthop. Surg., Tokyo Dental Univ. Ichikawa Hosp…S1259
1-P-PS6-7 Diagnosis of new Orthop. patient with benign lesion …H. Koyanagi, et al., Dept. of Orthop. Surg., Saitama Cancer Center…S1260

2-P-PS6-3 Biologic bone reconstruction after tumor resection: Allograft, recycled autograft and VFG …Y.-G. Chung, Dept. of Orthop. Surg., Seoul St. Mary’s Hosp., College of Medicine, The Catholic Univ. of Korea, Seoul, Korea…S1261
2-P-PS6-4 Reduction surgery of soft tissue sarcomas with preoperative radiation therapy …M. Yoshida, et al., Dept. of Orthop. Surg., Aichi Cancer Center Hosp…S1262
2-P-PS6-5 Post operative radiotherapy for the soft tissue sarcomas …A. Ogose, et al., Dept. Orthop. Surg., Uonuma Institute of Community Medicine, Niigata Univ. Medical and Dental Hosp…S1262
2-P-PS6-6 Brachytherapy for soft tissue sarcomas …J. Fujimori, et al., Dept. of Orthop. Surg., Graduate School of Biomedical Sciences, Hiroshima Univ…S1263
2-P-PS6-7 Intraoperative CT navigation (iCT) assisted surgery for bone tumors …M. Ieguchi, et al., Dept. of Orthop. Surg., Osaka Social Medical Center…S1263
2-P-PS6-8 Analysis of local control and patterns of local relapse in soft tissue sarcoma …S. Tsukushi, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ…S1264
2-P-PS6-9 Safe surgical margin and minimal surgery by the new evaluation method of surgical margin for musculoskeletal sarcoma …K. Ae, et al., Cancer Institute Ariake Hosp…S1264

2nd Day July 10 Room 1

8 : 30~9 : 30 Invited lecture8 Moderator T. Saito

2-1-IS8 Biologic bone reconstruction after tumor resection: Allograft, recycled autograft and VFG …Y.-G. Chung, Dept. of Orthop. Surg., Seoul St. Mary’s Hosp., College of Medicine, The Catholic Univ. of Korea, Seoul, Korea…S1261

9 : 40~11 : 40 Symposium Limited surgery for sarcomas Moderators Y. Beppu, T. Hiruma

2-1-S4-1 Reduction surgery of soft tissue sarcomas with preoperative radiation therapy …M. Yoshida, et al., Dept. of Orthop. Surg., Aichi Cancer Center Hosp…S1262
2-1-S4-2 Post operative radiotherapy for the soft tissue sarcomas …A. Ogose, et al., Dept. Orthop. Surg., Uonuma Institute of Community Medicine, Niigata Univ. Medical and Dental Hosp…S1262
2-1-S4-3 Brachytherapy for soft tissue sarcomas …J. Fujimori, et al., Dept. of Orthop. Surg., Graduate School of Biomedical Sciences, Hiroshima Univ…S1263
2-1-S4-4 Intraoperative CT navigation (iCT) assisted surgery for bone tumors …M. Ieguchi, et al., Dept. of Orthop. Surg., Osaka Social Medical Center…S1263
2-1-S4-5 Analysis of local control and patterns of local relapse in soft tissue sarcoma …S. Tsukushi, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ…S1264
2-1-S4-6 Safe surgical margin and minimal surgery by the new evaluation method of surgical margin for musculoskeletal sarcoma …K. Ae, et al., Cancer Institute Ariake Hosp…S1264

13 : 20~14 : 20 Culture lecture Moderator T. Yamamoto

2-1-CL Medical care from a point of view of regional revitalization with art …F. Kitagawa, Art Front Gallery Co., Ltd…S1266

14 : 30~15 : 30 Instructional lecture 2 Moderator K. Kaneko

2-1-ES2 Application of pluripotent stem cells for sarcoma research …J. Toguchida, Dept. of Tissue Regeneration, Institute for Frontier Medical Sciences, Kyoto Univ./Dept. of Differentiation Induction, Center for iPS Cells Research and Application, Kyoto Univ./Dept. of Orthop. Surg., Kyoto Univ. Hosp., Kyoto Univ…S1266
2nd Day July 10 Room 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30~9:30</td>
<td>Free paper 10</td>
<td>Distant metastasis</td>
</tr>
<tr>
<td>2-2-FP10-1</td>
<td>Clinical outcome in chondrosarcoma patients with lung metastasis at extremities: Tokai Musculoskeletal Oncology Consortium study</td>
<td>T. Nakamura, et al., Dept. of Musculoskeletal Surg., Mie Univ. Postgraduate School of Medicine…S1267</td>
</tr>
<tr>
<td>2-2-FP10-3</td>
<td>Serum matrix related protein levels predict metastases of malignant soft tissue tumor</td>
<td>K. Asanuma, et al., Dept. of Musculoskeletal Surg., Mie Univ. Graduate School of Medicine…S1267</td>
</tr>
<tr>
<td>2-2-FP10-4</td>
<td>Postoperative brain metastases in soft tissue sarcomas</td>
<td>H. Urakawa, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ…S1268</td>
</tr>
<tr>
<td>2-2-FP10-5</td>
<td>The outcome of pulmonary metastasectomy for high-grade bone and soft tissue sarcomas</td>
<td>N. Mizoshiri, et al., Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine…S1269</td>
</tr>
<tr>
<td>2-2-FP10-6</td>
<td>Relation between lung metastasis and prognosis in spindle cell sarcomas</td>
<td>T. Kamiishi, et al., Dept. of Orthop. Surg., Yokohama City Univ. Graduate School of Medicine…S1269</td>
</tr>
<tr>
<td>2-2-FP10-7</td>
<td>Clinical characteristics for the development of distant metastasis in soft tissue sarcoma</td>
<td>K. Suzuki, et al., Dept. of Orthop. Surg., Univ. of Toyama…S1270</td>
</tr>
<tr>
<td>9:35~10:35</td>
<td>Invited lecture 9</td>
<td></td>
</tr>
<tr>
<td>2-2-IS9</td>
<td>Treatment and prevention of surgical site infections in orthopaedic surgery</td>
<td>Y. Takesue, et al., Dept. of Infection Prevention and Control, Hyogo College of Medicine…S1271</td>
</tr>
<tr>
<td>10:40~11:40</td>
<td>Invited lecture 10</td>
<td></td>
</tr>
<tr>
<td>2-2-IS10</td>
<td>Wnt5a signaling: Its implication in cancer and inflammation</td>
<td>A. Kikuchi, et al., Dept. of Molecular Biology and Biochemistry, Graduate School of Medicine, Osaka Univ…S1271</td>
</tr>
<tr>
<td>12:00~13:10</td>
<td>Luncheon seminar 5</td>
<td></td>
</tr>
<tr>
<td>2-2-LS5</td>
<td>Management of infectious complications in neutropenic patients</td>
<td>Y. Kanda, Div. of Hematology, Jichi Medical Univ…S1272</td>
</tr>
<tr>
<td>14:30~15:30</td>
<td>Free paper 11</td>
<td>Soft tissue sarcomas</td>
</tr>
<tr>
<td>2-2-FP11-1</td>
<td>Clinical outcomes for patients with epithelioid sarcoma</td>
<td>H. Otani, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ…S1273</td>
</tr>
<tr>
<td>2-2-FP11-3</td>
<td>Oncologic outcome of soft tissue sarcomas of the Proximal and distal upper extremity</td>
<td>T. Ota, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ…S1274</td>
</tr>
<tr>
<td>2-2-FP11-4</td>
<td>Surgical outcome of soft tissue sarcomas of the adductor compartment</td>
<td>Y. Tanzawa, et al., Dept. of Musculoskeletal Surg., National Cancer Center Hosp…S1274</td>
</tr>
<tr>
<td>2-2-FP11-5</td>
<td>Outcome of treatment for soft tissue sarcoma</td>
<td>A. Nagano, et al., Dept. of Orthop. Surg., Gifu Univ…S1275</td>
</tr>
<tr>
<td>2-2-FP11-6</td>
<td>Curability of locally progressive high grade soft tissue sarcoma by surgical treatment without radiotherapy</td>
<td>K. Ae, et al., Cancer Institute Ariake Hosp…S1275</td>
</tr>
</tbody>
</table>
Repeat surgeries after local recurrence of soft tissue sarcoma

H. Kamoda, et al., Dept. of Orthop. Surg., Chiba Cancer Center...S1276

Free paper 12  Moderators  M. Hosaka, H. Futani

Treatment of primary malignant bone tumor for middle-aged and elderly people

K. Hayakawa, et al., Dept. of Orthop. Surg., Cancer Institute Hosp...S1277

Operative treatment of soft tissue sarcoma among the oldest old

M. Okamoto, et al., Dept. of Orthop. Surg., Shinshu Univ...S1277

Outcomes of surgical treatment for soft-tissue sarcoma elderly patients over 75

T. Sotobori, et al., Dept. of Orthop. Surg., Osaka Medical Center for Cancer and Cardiovascular Diseases...S1278

Clinical outcomes of soft tissue sarcomas in patients aged 65 years or older

K. Hashimoto, et al., Dept. of Orthop. Surg., Kindai Univ...S1278

Prognostic significance of older age in high grade soft tissue sarcomas

S. Tsukushi, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1279

A study of prognostic factors for elderly patients with soft tissue sarcoma

K. Sei, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Gunma Univ...S1279

Localized high grade soft tissue sarcoma patients may be have poorer survival if not treated with radiation therapy

C. H. Hou, Dept. of Orthop. Surg., National Taiwan Univ. Hosp., Taipei, Taiwan...S1280

Using experience of pazopanib in our hospital: Investigation of the dose

K. Abe, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Graduate School of Medical Science, Kanazawa Univ...S1281

Therapeutic effect of pazopanib for soft tissue sarcoma

T. Hamada, et al., Dept. of Orthop. Surg., Kurume Univ...S1281

Pneumothorax in patients with lung metastases of advanced sarcoma treated with pazopanib

H. Kimura, et al., Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences/Dept. of Orthop. Surg., Kanazawa Univ...S1282

The treatment results of pazopanib for malignant soft-tissue tumors with lung metastases

E. Osaka, et al., Dept. of Orthop. Surg., Nihon Univ...S1282

The effect of chemotherapy for relapsed osteosarcoma

T. Okamoto, et al., Dept. of Orthop. and Musculoskeletal Surg., Graduate School of Medicine, Kyoto Univ...S1283

Chemotherapy side effects in older patients with bone malignancies

T. Matsumoto, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1283

Adjuvant chemotherapy for adult soft tissue sarcomas and early social rehabilitation

K. Ae, et al., Cancer Institute Ariake Hosp./Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ...S1284

The real-time polymerase chain reaction analysis of RANKL/RANK/OPG expression as therapeutic target of bone tumors

T. Yamagishi, et al., Div. of Orthop. Surg., Niigata Univ. Graduate School of Medicine and Dental Sciences...S1285
Evaluation of denosumab administration for giant cell tumor of bone

Denosumab treatment for giant cell tumor of bone: Do we really need initial lordings?

 Differences in the responses and prognoses of pazopanib to soft tissue sarcomas by their histological diagnoses

Treatment of multi-targeted tyrosine kinase inhibitor for alveolar soft part sarcomas

Adverse events associated with gemcitabine & taxane combination therapy or pazopanib therapy in patients with advanced bone and soft tissue sarcoma

Clinical outcome in patients with soft tissue sarcoma who were treated with pazopanib in Japan: JMOG study

Validity and limitations of synthetic bone substitutes in bone tumor surgery

Cooperative treatments for patients with metastatic bone tumors

Management through rehabilitation for patients with metastatic bone tumors

Collaboration among the attending, radio-oncology and cancer pain service on palliative radiation

Current status and future prospect of cross sectional medical care for patients with bone metastasis in our hospital: How can orthopaedic surgeons contribute?

Establishment of medical and dental combined treatment system for cancer patients with bone metastasis

The role of multidisciplinary approach by Cancer Board for the improvement of survival in colorectal cancer patient with bone metastasis

The role of the bone metastasis Cancer Board for breast cancer patients

Management of the patients with bone metastasis under bone metastasis Cancer Board (bone metastasis board: BMB)

Particle therapy using carbon ions or protons for bone and soft tissue tumors
<table>
<thead>
<tr>
<th>8:30~9:30</th>
<th>Free paper 14</th>
<th>Gene expression</th>
<th>Moderators</th>
<th>H. Kawano, T. Matsubara</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-4-FP14-1</td>
<td>FISH for diagnosis of soft tissue tumor</td>
<td>...</td>
<td>Y. Watanabe, et al., Dept. of Orthop. Surg., Chitose City Hosp...</td>
<td>S1295</td>
</tr>
<tr>
<td>2-4-FP14-2</td>
<td>ERG and SALL4 expressions in SMARCB1/INI1-deficient tumors</td>
<td>...</td>
<td>K. Kohashi, et al., Dept. of Anatomic Pathol., Graduate School of Medical Sciences, Kyushu Univ...</td>
<td>S1295</td>
</tr>
<tr>
<td>2-4-FP14-3</td>
<td>Possible involvement of the oxidized low-density lipoprotein/lectin-like oxidized low-density lipoprotein receptor-1 system in pathogenesis of pain of desmoid tumor</td>
<td>...</td>
<td>K. Hashimoto, et al., Dept. of Orthop. Surg., Kindai Univ...</td>
<td>S1296</td>
</tr>
<tr>
<td>2-4-FP14-4</td>
<td>NY-ESO-1 expression in soft tissue tumors</td>
<td>...</td>
<td>M. Endo, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...</td>
<td>S1296</td>
</tr>
<tr>
<td>2-4-FP14-5</td>
<td>Clinicopathological impact of protein phosphatase 2A mutations in gastrointestinal stromal tumor</td>
<td>...</td>
<td>M. Ishii, et al., Dept. of Orthop., Juntendo Univ...</td>
<td>S1297</td>
</tr>
<tr>
<td>2-4-FP14-6</td>
<td>Expression of Fork head box M1 (FOXM1) in synovial sarcoma</td>
<td>...</td>
<td>A. Maekawa, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...</td>
<td>S1297</td>
</tr>
<tr>
<td>2-4-FP14-7</td>
<td>Somatic mutation analysis of pediatric osteosarcoma with target sequencing</td>
<td>...</td>
<td>S. Iwata, et al., Div. of Orthop. Surg., Chiba Cancer Center...</td>
<td>S1298</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9:35~10:35</th>
<th>Free paper 15</th>
<th>Benign bone tumors</th>
<th>Moderators</th>
<th>J. Manabe, N. Hiruta</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-4-FP15-1</td>
<td>Treatment for benign bone tumor by a trephine needle</td>
<td>...</td>
<td>K. Hirooka, et al., Dept. of Orthop. Surg., Kurume Univ...</td>
<td>S1299</td>
</tr>
<tr>
<td>2-4-FP15-2</td>
<td>Endoscopically assisted curettage of enchondromas in the hand and foot</td>
<td>...</td>
<td>H. Futani, et al., Dept. of Orthop. Surg., Hyogo College of Medicine...</td>
<td>S1299</td>
</tr>
<tr>
<td>2-4-FP15-3</td>
<td>Treatment of enchondroma at distal phalanx of hand: A clinical analysis</td>
<td>...</td>
<td>M. Akita, et al., Dept. of Orthop. Surg., Kawaguchi Municipal Medical Center...</td>
<td>S1300</td>
</tr>
<tr>
<td>2-4-FP15-4</td>
<td>The efficacy of ethanol adjuvant therapy on aneurysmal bone cyst of proximal femur in children</td>
<td>...</td>
<td>M. Watanuki, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine...</td>
<td>S1300</td>
</tr>
<tr>
<td>2-4-FP15-5</td>
<td>Surgical treatment of the proximal femoral fractures due to solitary bone cyst in children</td>
<td>...</td>
<td>K. Sugin, et al., Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...</td>
<td>S1301</td>
</tr>
<tr>
<td>2-4-FP15-6</td>
<td>Treatment of osteoid osteoma: Osaka City University Hospital experience</td>
<td>...</td>
<td>N. Oebisu, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School...</td>
<td>S1301</td>
</tr>
<tr>
<td>2-4-FP15-7</td>
<td>Osteoid osteoma of the tarsal bone</td>
<td>...</td>
<td>Y. Watanabe, et al., Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp...</td>
<td>S1302</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10:40~11:40</th>
<th>Free paper 16</th>
<th>Imaging diagnosis</th>
<th>Moderators</th>
<th>T. Morii, K. Nakaniishi</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-4-FP16-1</td>
<td>Sonographic findings in the differentiation between benign and malignant of soft tissue tumors</td>
<td>...</td>
<td>H. Futani, et al., Dept. of Orthop. Surg., Hyogo College of Medicine...</td>
<td>S1303</td>
</tr>
<tr>
<td>2-4-FP16-2</td>
<td>MRI evaluation of myxoid tumors of soft tissue</td>
<td>...</td>
<td>Y. Honda, et al., Dept. of Orthop. Surg., Narita Memorial Hosp...</td>
<td>S1303</td>
</tr>
<tr>
<td>2-4-FP16-3</td>
<td>The relationship between pathological evaluation for neoadjuvant therapy and equivalent cross-relaxation rate imaging of bone and soft tissue sarcomas</td>
<td>...</td>
<td>H. Hasegawa, et al., Dept. of Orthop. Surg., Aichi Cancer Center Hosp...</td>
<td>S1304</td>
</tr>
<tr>
<td>2-4-FP16-4</td>
<td>Correlations between PET/MRI, enhanced MRI and pathological findings in fibrosarcoma-tous dermatofibrosarcoma protuberance with various histological appearances</td>
<td>...</td>
<td>M. Hakozaki, et al., Dept. of Orthop. Surg., Fukushima Medical Univ...</td>
<td>S1304</td>
</tr>
</tbody>
</table>
Evaluation of the liposarcoma by FDG-PET

N. Oebisu, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School...S1305

The significance of PET/CT in diagnosis of lung metastasis from bone/soft tissue sarcoma

E. Kozawa, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1305

Evaluation of carbon ion radiotherapy for bone and soft-tissue tumors using FDG-PET

T. Yanagawa, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Gunma Univ...S1306

Therapeutic strategies for the treatment of myeloma bone disease

S. Ozaki, Dept. of Hematology, Tokushima Prefectural Central Hosp...S1307

Treatment strategies for giant cell tumor of bone arising in the sacrum


Graduate School of Medicine...S1308

Clinical outcome of patients with giant cell tumor of bone

T. Akisue, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine...S1308

Denosumab treatment for giant cell tumor of bone

E. Kobayashi, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp...S1309

Joint-sparing management for giant cell tumors of bone around the knee which affect subchondral bone

M. Kito, et al., Dept. of Orthop. Surg., Shinshu Univ...S1309

The correlation between the signal intensity of MR imaging and responsiveness to meloxicam treatment in desmoid tumor

S. Hamada, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1310

Low dose chemotherapy with methotrexate and vinblastine for patients with desmoid tumors resistant to meloxicam treatment

Y. Nishida, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1310

Indication of wait and see policy against desmoid tumors

T. Gokita, et al., Dept. of Orthop. Oncol., Cancer Institute Ariake Hosp...S1311

Development of new scoring system for the preoperative differential diagnosis of malignant and benign spinal dumbbell tumors

Y. Matsumoto, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1312

Spinal metastases of musculoskeletal sarcomas

K. Harimaya, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kyushu Univ...S1312

Multicenter clinical results of osteosarcoma and malignant fibrous histiocytoma of bone in spine and pelvis Comparison of surgical operation and heavy ion radiotherapy

T. Hiruma, et al., Dept. of Musculoskeletal Tumor Surg., Kanagawa Cancer Center...S1313

Sarcoma of the mobile spine

H. Otani, et al., Dept. of Orthop Surg., Graduate School of Medicine, Osaka Univ...S1313

Analyses of factors related the palsy of spinal metastases on imaging and the presence of anticanicre drug therapy

H. Imabayashi, et al., Dept. of Orthop. Surg., National Defense Medical College...S1314

Minimally invasive spine stabilization (MIST) for metastatic spinal tumor

T. Hikata, et al., Dept. of Orthop. Surg., Keio Univ...S1314

Prevalence of calcification in metastatic vertebral body of lung cancer after radiation

E. Nakata, et al., Dept. of Orthop. Surg., Shikoku Cancer Center...S1315
2-5-MS2  Surgical site infection in bone and soft tissue tumor: Present status and perspectives

2-5-FP19-1  Radiological response and clinical outcome in patients with impending fractures of femoral bone metastases after radiotherapy

2-5-FP19-2  Digital tomosynthesis for assessment of osteolytic bone lesions by cancer metastasis

2-5-FP19-3  Surgical treatment prior to radiation therapy in bone metastases patients

2-5-FP19-4  Surgical strategy for femoral metastasis using Mirels’ Rating

2-5-FP19-5  Technique of surgical intervention for metastatic renal cell carcinoma of long bones

2-5-FP19-6  Surgical indication and method for metastatic bone tumor in lower extremity

2-5-FP19-7  Surgical management of long bone metastases

2-5-FP20-1  Diagnosis of bone metastases from occult malignancy

2-5-FP20-2  Diagnosis and treatment of new orthopaedic patient with cancer

2-5-FP20-3  MRI and PET are useful modalities for detecting bone metastases of colorectal cancer

2-5-FP20-4  Strategy for prevention of metastatic spinal cord compression at our institution

2-5-FP20-5  Analysis of patients with bone metastasis who survived for more than 10 years

2-5-FP20-6  Prognostic factors of surgical treatment for bone metastasis of renal cell carcinoma

2-5-FP20-7  Administration of tyrosine kinase inhibitor and therapeutic intervention for metastatic lesions improve prognosis of patients with bone metastases from non-small cell lung cancer

2-5-FP21-1  Bone remodeling effect by gefitinib for non small cell lung cancer bone metastasis

2-5-FP21-2  The effect of zoledronic acid on metastatic spine unit using finite element method

2-5-FP21-3  Treatment for spinal metastasis of breast cancer using bone modifying agents
2-5-FP21-4 Clinical results of metastatic spinal cord compression
H. Park, et al., Dept. of Orthop. and Musculoskeletal Surg., Graduate School of Medicine, Kyoto Univ...S1326

2-5-FP21-5 Conservative treatment and multidisciplinary management for spinal metastases in cancer patients
T. Takagi, et al., Dept. of Orthop., Juntendo Univ...S1327

2-5-FP21-6 Pain palliation in patients with painful bone metastasis using MR-guided focused ultrasound surgery (MRgFUS)
M. Kawasaki, et al., Dept. of Orthop. Surg., Kochi Medical School...S1327

2-5-FP21-7 Spinal cord seeding in metastatic tumor cases
H. Kamoda, et al., Dept. of Orthop. Surg., Chiba Cancer Center...S1328

2-5-FP22-1 Detailed evaluation of soft tissue sarcoma mortality cases
R. Hirota, et al., Orthop. Surg., Graduate School of Medicine, Sapporo Medical Univ...S1329

2-5-FP22-2 Nomogram for predicting overall survival after neoadjuvant chemotherapy and surgery for patients with non-metastatic osteosarcoma: A multi-institutional study
K. Ogura, et al., Dept. of Musculoskeletal Oncol., National Cancer Center Hosp./Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo...S1329

2-5-FP22-3 Prognostic impact of CD109 expression in myxofibrosarcoma
M. Emori, et al., Orthop. Surg., Graduate School of Medicine, Sapporo Medical Univ...S1330

2-5-FP22-4 Factors influencing the prognosis of synovial sarcoma patients: A multi-center study of 162 patients
Y. Hagie, et al., Dept. of Orthop. Surg., Tokyo Women's Medical Univ...S1330

2-5-FP22-5 Analysis of the prognostic factors of soft tissue sarcoma
Y. Sugita, et al., Dev. of Pathol., Cancer Institute Ariake Hosp...S1331

2-5-FP22-6 Clinical outcomes and prognostic factors in patients with malignant peripheral nerve sheath tumors
K. Ikuta, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Nagoya Univ...S1331

2-5-FP22-7 Establishment of follow-up system of neurofibromatosis type I for malignant peripheral nerve sheath tumor
M. Yamamoto, et al., Div. of Orthop. Surg., JCHO Tokuyama Central Hosp...S1332

2-5-FP22-8 Definitive radiotherapy for unresectable bone and soft tissue sarcoma
H. Katagiri, et al., Dept. of Orthop. Surg., Keio Univ...S1332

2-5-FP23-1 Analysis of MRI imaging and metal artifact reduction near orthopaedic implants using MAVRIC
M. Susa, et al., Dept. of Orthop. Surg., Keio Univ...S1333

2-5-FP23-2 Clinical outcomes of the total femur replacement in musculoskeletal tumor patients.
T. Kakimoto, et al., Dept. of Musculoskeletal Surg., Mie Univ. Postgraduate School of Medicine...S1333

2-5-FP23-3 Investigation of mechanical failure after KLS megaprostheses replacement
K. Hayashi, et al., Dept. of Restorative Medicine of Neuro-Musculoskeletal System, Graduate School of Medical Science, Kanazawa Univ...S1334

2-5-FP23-4 Two cases of breakage of femoral stem after tumor prosthesis reconstruction
M. Aono, et al., Dept. of Orthop. Surg., Osaka City General Hosp...S1334

2-5-FP23-5 Investigation of complications in prosthetic knee replacement for musculoskeletal tumor
S. Oshika, et al., Dept. of Orthop. Surg., Hiroaki Univ. Graduate School of Medicine...S1335

2-5-FP23-6 Short-term follow-up of global modular femur and tibia replacement system (GMRS)
T. Tanizawa, et al., Dept. of Orthop. Oncology, Cancer Institute Ariake Hosp...S1335
### 2nd Day  July 10  Poster

<table>
<thead>
<tr>
<th>Time</th>
<th>Poster</th>
<th>Topic</th>
<th>Authors</th>
<th>Department/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>7</td>
<td>Tumor-like lesions 1</td>
<td>Moderator: M. Kawasaki</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS7</td>
<td>Intra-articular nodular fasciitis of the knee, a case report</td>
<td>Y. Yamagami, et al., Dept. of Orthop. Surg., Kagawa Univ</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS7</td>
<td>Intraarticular nodular fasciitis arising in the knee joint: A report of two cases</td>
<td>N. Itaya, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS7</td>
<td>Clinical and radiological aspects of nodular fasciitis</td>
<td>M. Hosaka, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS7</td>
<td>Two cases of intraosseous pneumatoct of the scapula</td>
<td>Y. Kitagawa, et al., Dept. of Orthop. Surg., Nippon Medical School, Graduate School of Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS7</td>
<td>Two cases of tuberculosis mimicking sarcoma</td>
<td>K. Hashimoto, et al., Dept. of Orthop. Surg., Kindai Univ</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS7</td>
<td>MRI evaluation of epidermoid cyst</td>
<td>Y. Honda, et al., Dept. of Orthop. Surg., Narita Memorial Hosp</td>
<td></td>
</tr>
<tr>
<td>14:50</td>
<td>8</td>
<td>Tumor-like lesions 2</td>
<td>Moderator: K. Ihara</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS8</td>
<td>Subungual exostosis in a 5th toe: A case report</td>
<td>O. Dohi, et al., Dept. of Orthop. Surg., Tohoku Hosp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS8</td>
<td>Subpubic cartilaginous cyst: Two case reports</td>
<td>R. Miyagi, et al., Dept. of Orthop., The Univ. of Tokushima Graduate School</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS8</td>
<td>The characteristics of synovial chondromatosis of fingers</td>
<td>T. Akahane, et al., Dept. of Orthop. Surg., Shinshu-Ueda Medical Center</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS8</td>
<td>Arthroscopically assisted treatment of intraosseous carpal ganglion cysts</td>
<td>Y. Kim, et al., Hand Care Center, Ohta General Hosp</td>
<td></td>
</tr>
<tr>
<td>15:00</td>
<td>9</td>
<td>Diagnosis of malignancies</td>
<td>Moderator: M. Kanamori</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS9</td>
<td>Issues in diagnosis and treatment of sarcomas at sites other than the extremities</td>
<td>H. Hatano, et al., Dept. of Orthop., Niigata Cancer Center Hosp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS9</td>
<td>Contribution of FDG-PET scan in the evaluation of recurrent myxofibrosarcoma</td>
<td>K. Kikuta, et al., Dept. of Orthop. Surg., Keio Univ</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS9</td>
<td>Preoperative diagnosis using MRI for bone and soft tissue tumors in upper extremity</td>
<td>S. Tsuchida, et al., Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS9</td>
<td>Diagnostic imaging method using magnetic resonance imaging of superficial soft tissue tumors</td>
<td>T. Iwai, et al., Kishima Hon-in Hosp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS9</td>
<td>Malignant pelvic tumors causing sciatica and maltreated as lumbar spine diseases: Pathognomonic signs for the definitive diagnosis</td>
<td>Y. Inoue, Dept. of Orthop. Surg., Seirei Hamamatsu General Hosp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS9</td>
<td>A case of lymphoblastic lymphoma which was difficult to make a diagnosis of CRMO</td>
<td>J. Miyawaki, et al., Dept. of Bone and Joint Surg, Ehime Univ. Graduate School of Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-P-PS9</td>
<td>A case of diffuse thigh metastasis from gastric cancer mimicking fasciitis</td>
<td>N. Yoshimoto, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp</td>
<td></td>
</tr>
</tbody>
</table>

---

60
<table>
<thead>
<tr>
<th>15:33〜15:51</th>
<th>Poster 10 Giant cell tumors of bone</th>
<th>Moderator Y. Kitagawa</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-P-PS10-1</td>
<td>Soft tissue recurrence after the treatment of pathological fracture by giant cell tumor of bone at distal femur: a difficult case to differentiate from osteosarcoma</td>
<td>S. Sugihara, et al., Dept. of Orthop. Surg., Shikoku Cancer Center...S1346</td>
</tr>
<tr>
<td>2-P-PS10-2</td>
<td>Expression analysis of isocitrate dehydrogenase mutations in giant cell tumor of bone</td>
<td>M. Sugawara, et al., Dept. of Orthop. Surg., Yamagata Univ...S1346</td>
</tr>
<tr>
<td>2-P-PS10-3</td>
<td>A case of malignant transformation of giant cell tumor of bone on distal femur more 30 years after primary treatment...S. Nishimura, et al., Dept. of Orthop. Surg., Kindai Univ...S1347</td>
<td></td>
</tr>
<tr>
<td>2-P-PS10-4</td>
<td>Knee joint function of giant cell tumor on distal femur for more than 20 years after curettage cement filling - five cases</td>
<td>N. Yamamoto, et al., Dept. of Orthop. Surg., Cancer Institute Ariake Hosp...S1347</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15:54〜16:24</th>
<th>Poster 11 Osteosarcoma</th>
<th>Moderator T. Nishisho</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-P-PS11-1</td>
<td>Telangiectatic osteosarcoma in a patient with neurofibromatosis type I: A case report</td>
<td>Y. Kaneuchi, et al., Dept. of Orthop. Surg., Fukushima Medical Univ...S1349</td>
</tr>
<tr>
<td>2-P-PS11-4</td>
<td>A rare presentation of an osteosarcoma in the femoral head</td>
<td>S. Fujita, et al., Dept. of Orthop. Surg., Keio Univ...S1350</td>
</tr>
<tr>
<td>2-P-PS11-5</td>
<td>Prognostic value of radiological response to chemotherapy in patients with osteosarcoma</td>
<td>S. Miwa, et al., Dept. of Orthop. Surg., Graduate School of Medical Science, Kanazawa Univ...S1351</td>
</tr>
<tr>
<td>2-P-PS11-6</td>
<td>A case of adult osteosarcoma, with lung metastasis and no local recurrence, initial postoperative 5-years and more</td>
<td>M. Kanamori, et al., Dept. of Human Science, Univ. of Toyama...S1351</td>
</tr>
<tr>
<td>2-P-PS11-7</td>
<td>A case of radiation-induced osteosarcoma of the first rib</td>
<td>T. Ando, et al., Interdisciplinary Graduate School of Medicine and Engineering, Univ. of Yamanashi...S1352</td>
</tr>
<tr>
<td>2-P-PS11-8</td>
<td>Long-term result after limb salvage for osteosarcoma in the distal femur using irradiated osteochondral graft combined with vascularized fibula in a 6-year-old boy</td>
<td>K. Ihara, et al., Dept. of Orthop. Surg., Kanmon Med. Center...S1352</td>
</tr>
<tr>
<td>2-P-PS11-9</td>
<td>A rare case report of primary osteosarcoma arising from orbit</td>
<td>N. Takada, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School...S1353</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16:27〜16:45</th>
<th>Poster 12 Metastatic bone tumors 1</th>
<th>Moderator S. Sugihara</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-P-PS12-1</td>
<td>Analysis of bone metastasis of primary unknown cancer detected at initial visit of orthop. clinic in municipal hospital</td>
<td>A. Kanno, et al., Dept. of Orthop. Surg., Iwaki Kyoritsu General Hosp...S1354</td>
</tr>
<tr>
<td>2-P-PS12-2</td>
<td>Exacerbation factors of general condition in postoperative patients with bone metastasis: Cases of unexpected premature deaths</td>
<td>K. Endo, et al., Dept. of Orthop. Surg., Tottori Univ...S1354</td>
</tr>
</tbody>
</table>
2-P-PS12-3 Treatment strategy for metastatic bone tumor in the extremities ……S. Shimozaki, et al., Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences…S1355

2-P-PS12-4 Prognosis of multidisciplinary therapy for spinal metastasis ……K. Kakutani, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine…S1355

2-P-PS12-5 Study of surgical cases for bone metastasis 2 years after establishment of cancer board system ……..R. Sawada, et al., Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo…S1356

2-P-PS12-6 Evaluation of the prognostic scoring systems for bone metastases using single-center data ………………………………………H. Shimada, et al., Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ…S1356

14:30～14:48 Poster 13 Metastatic bone tumors 2 Moderator H. Hatano

2-P-PS13-1 Benefits of intramedullary nailing in femFree Paper metastatic fractures ………………………………………T. Tanaka, et al., Dept. of Orthop., St. V. Hosp., Melbourne, Australia/Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ…S1357

2-P-PS13-2 Two cases of metastasis to distal phalanx of the foot ………………………………………T. Hitora, et al., Dept. of Orthop. Surg., Ichinomiya Nishi Hosp…S1357


2-P-PS13-4 Sarcomatous overgrowth of metastatic adenocarcinoma of lung with EGFR and TP53 mutations masquerading a primary pleomorphic sarcoma of the proximal femur ………………………………………M. Ishii, et al., Dept. of Orthop., Juntendo Univ…S1358

2-P-PS13-5 Two patients with metastatic spinal cord paralysis who could discharge to home after coordinating rehabilitation …………………………………………………………M. Park, et al., Dept. of Musculoskeletal Oncology and Rehabilitation, National Cancer Center…S1359

2-P-PS13-6 Investigation of bone metastasis nursing ability in Juntendo University Hospital ……………………………………………………………………………………………K. Akaike, et al., Dept. of Orthop., Juntendo Univ…S1359

14:51～15:12 Poster 14 Soft tissue sarcomas 1 Moderator Y. Yoshimura

2-P-PS14-1 A case of late malignant transformation of tenosynovial giant cell tumor after resection ………………………………………N. Fukase, et al., Dept. of Orthop. Surg., Hyogo Cancer Center…S1360


2-P-PS14-3 Two cases reports of malignant soft tissue tumor in the proximal lower leg treated by a different local modality ……..H. Yagi, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School…S1361


2-P-PS14-5 Intraneural synovial sarcoma originating from tibial nerve with requiring revascularization ……………………………K. Hashimoto, et al., Dept. of Orthop. Surg., Kindai Univ…S1362

2-P-PS14-6 Proximal-type epithelioid sarcoma of the paracervical spine: A report of two cases ………………………………………N. Asano, et al., Dept of Musculoskeletal Oncology, National Cancer Center Hosp./ Dept. of Orthop. Surg., Keio Univ…S1362

2-P-PS14-7 Leiomyosarcoma arising from the peripheral vein of extremities: A report of three cases ………………………………………D. Kubota, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp./ Dept. of Orthop., Juntendo Univ…S1363
### 15:15~15:36 Poster 15 Soft tissue sarcomas 2

<table>
<thead>
<tr>
<th>Poster 15:2</th>
<th>Clinical results of myxoid/round cell liposarcoma in our hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N. Miyata, et al., Dept. of Orthop. Surg., Nagasaki Univ...S1364</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 15:3</th>
<th>Six cases of myxofibrosarcoma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S. Yamada, et al., Dept. of Orthop. Surg., Nagoya City Univ., Graduate School of Medical Sciences...S1364</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 15:4</th>
<th>Three cases of synovial sarcoma of chest wall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>K. Hosono, et al., Dept. of Orthop. Surg., Aichi Cancer center, Aichi Hosp...S1365</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 15:5</th>
<th>Malignant solitary fibrous tumors of the bone and soft tissue: Report of four cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N. Oike, et al., Div. of Orthop. Surg., Niigata Univ, Graduate School of Medicine and Dental Sciences...S1365</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 15:6</th>
<th>Clinical outcome of extrapleural solitary fibrous tumor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I. Watanabe, et al., Dept. of Orthop. Surg., Tokyo Dental College Ichikawa General Hosp...S1366</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 15:7</th>
<th>Four cases of pubic sarcoma: Surgical outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y. Yazawa, et al., Dept. of Orthop. Oncology and Surg., Saitama Medical Univ. International Medical Center...S1366</td>
</tr>
</tbody>
</table>


### 15:39~16:06 Poster 16 Postoperative complications and prognoses

<table>
<thead>
<tr>
<th>Poster 16:1</th>
<th>Background of initial treatment by simple excision in soft tissue sarcomas</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y. Shido, et al., Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine...S1368</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:2</th>
<th>Brain metastasis in bone and soft tissue sarcoma: A review of therapeutic strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D. Kubota, et al., Div. of Musculoskeletal Surg., National Cancer Center Hosp...S1368</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:3</th>
<th>Incidence of extrapulmonary sites of metastasis in patient with bone and soft tissue sarcoma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>K. Okuno, et al., Dept. of Musculoskeletal Surg., Mie Univ. Postgraduate School of Medicine...S1369</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:4</th>
<th>Examination of musculoskeletal infections related with cancer therapy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T. Ariizumi, et al., Niigata Cancer Center Hosp...S1369</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:5</th>
<th>The study of poor result group after pulmonary metastasectomy in bone and soft tissue sarcoma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S. Suzuki, et al., Dept. of Orthop. Surg., Shinshu Univ...S1370</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:6</th>
<th>How much is the optimum follow-up interval for musculoskeletal sarcomas?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T. Fujibuchi, et al., Dept. of Bone and Joint Surg., Ehime Univ. Graduate School of Medicine...S1370</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:7</th>
<th>Characteristics of pediatric acute leukemia with initial symptom of musculoskeletal problems: A 15-year retrospective study in our hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M. Nishimura, et al., Dept. of Pediatrics, Kurume Univ...S1371</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:8</th>
<th>Influence of chemotherapy on fertility-related hormone in patients with high-grade sarcoma</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M. Hoshi, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School...S1371</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:9</th>
<th>A case of spontaneous shortening of expanding prosthesis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F. Nakatani, et al., Dept. of Orthop. Surg., National Cancer Center Hosp...S1372</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poster 16:10</th>
<th>Reconstruction after wide resection of calcaneal osteosarcoma using free anterolateral thigh flap: A case report</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T. Komatsubara, et al., Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine...S1372</td>
</tr>
</tbody>
</table>
### 16:09〜16:33 Poster 17  Chemotherapy

| 2-P-PS17-1 | Treatment results of trabectedin in extraskeletal myxoid chondrosarcoma and mesenchymal chondrosarcoma  
H. Morioka, et al., Dept. of Orthop. Surg., Keio Univ…S1373 |
| 2-P-PS17-2 | The assessing treatment effects of neoadjuvant chemotherapy in musculoskeletal tumor  
T. Ohki, et al., Orthop. Surg., Graduate School of Medicine, The Univ. of Tokyo…S1373 |
| 2-P-PS17-3 | Analysis of febrile neutropenia risk factor in the chemotherapy for the bone and soft tissue sarcoma  
| 2-P-PS17-4 | Evaluation of ifosfamide and cisplatin-related nephrotoxicity in elderly patients  
| 2-P-PS17-5 | The study about the association between arterial blood gas analysis and ifosfamide encephalopathy in patients with bone and soft tissue sarcoma  
| 2-P-PS17-6 | A relation between neutrophils counts and severe infections by chemotherapy of osteosarcoma  
N. Yamaguchi, et al., Dept. of Orthop. Surg., Chiba Cancer Center…S1375 |
| 2-P-PS17-7 | A case of osteosarcoma with multiple lung metastases that have long-term survival by cyber knife and GEM+DTX therapy  
K. Hayashi, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine…S1376 |
| 2-P-PS17-8 | Leucoencephalopathy after high dose methotrexate therapy for osteosarcoma: A case report  
K. Suzuki, et al., Dept. of Orthop. Surg., Univ. of Toyama…S1376 |

### 16:36〜16:57 Poster 18  Molecular targeted therapy

| 2-P-PS18-1 | A case of malignant solitary fibrous tumor which was treated by pazopanib  
K. Numoto, et al., Dept. of Orthop. Surg., Kochi Health Sciences Center Hosp…S1377 |
| 2-P-PS18-2 | Successful treatment of a case of metastatic inguinal epithelial sarcoma by pasopanib  
S. Irimura, et al., Dept. of Orthop. Surg., Keio Univ…S1377 |
| 2-P-PS18-3 | Total en bloc spondylectomy for Th4 spinal metastasis of rhabdomyosarcoma after marked response to pazopanib therapy: A case report  
S. Takaya, et al., Dept. of Orthop. Surg., Kochi Univ…S1378 |
| 2-P-PS18-4 | Denosumab treatment of pediatric sacrum giant cell tumor of bone with novel denosumab-related adverse events  
E. Kobayashi, et al., Div. of Musculoskeletal Oncology, National Cancer Center Hosp…S1378 |
| 2-P-PS18-5 | Protein expression profiling of giant cell tumors of bone treated with denosumab  
| 2-P-PS18-6 | Analysis of the difference of action mechanism between zoledronic acid and denosmab effects for cultivation cells of giant cell tumor of bone  
| 2-P-PS18-7 | Neoadjuvant therapy for giant cell tumor of distal radius using denosumab: A case report  
T. Kamiishi, et al., Dept. of Orthop. Surg., Yokohama City Univ. Graduate School of Medicine…S1380 |

### 14:30〜14:54 Poster 19  Surgical options

| 2-P-PS19-1 | Radical forequarter amputation with chest wall resection for sarcomas  
N. Asano, et al., Dept. of Musculoskeletal Oncology, National Cancer Center Hosp./  
Dept. of Orthop. Surg., Keio Univ…S1381 |
| 2-P-PS19-2 | Liquid nitrogen-treated bone graft combined with Masquelet technique for bone defect after resection of malignant bone tumors  
T. Moteki, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Gunma Univ…S1381 |
2-P-PS19-3 The linea aspera as a guide for femFree Paper rotation after tumor resection; Is it exactly straight posterior? A technical note  ..........A. Abdelaal, et al., Dept. of Orthop. Surg., Graduate School of Medical Science, Kanazawa Univ…S1382
2-P-PS19-5 The use of negative pressure wound therapy (NPWT) with skin grafts in the treatment of skin defects after sarcoma resection  ..........T. Kawamoto, et al., Dept. of Orthop. Surg., Kobe Graduate School of Medicine…S1383
2-P-PS19-7 The functional outcome of the shoulder joint after subtotal scapulectomy preserving only the medial portion of the scapula: Comparison with total scapulectomy  ..........M. Yanagisawa, et al., Dept. of Orthop. Surg., Hirosaki Univ. Graduate School of Medicine…S1384

<table>
<thead>
<tr>
<th>14 : 57〜15 : 12</th>
<th>Poster 20</th>
<th>Treatment of choice</th>
<th>Moderator</th>
<th>K. Kumagai</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-P-PS20-1</td>
<td>Short terms report of therapy with acridine orange for soft tissue and bone sarcomas at our hospital  ..........T. Tsuchiya, et al., Dept. of Orthop. Surg., Yamagata Univ…S1385</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-P-PS20-3</td>
<td>Pitfall of Mohs' paste for sarcoma exposed from the skin: Two case reports  ..........Y. Sawada, et al., Dept. of Orthop. Surg., Osaka City Univ. Graduate Medical School…S1386</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-P-PS20-4</td>
<td>Pitfall and knack for VLB+MTX therapy against aggressive fibromatosis (huge desmoid)  ..........K. Oshima, et al., Dept. of Orthop. Surg., Osaka Medical Center for Cancer and Cardiovascular Diseases…S1386</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-P-PS20-5</td>
<td>The histologic effects of pre-operative radiotherapy on subcutaneous infiltrative myxofibrosarcomas and undifferentiated pleomorphic sarcomas  ..........J. Imanishi, et al., Dept. of Orthop., St. V. Hosp. Melbourne, Australia…S1387</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15 : 15〜15 : 30</th>
<th>Poster 21</th>
<th>Tumors in the spine and the trunk</th>
<th>Moderator</th>
<th>T. Shirai</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>15 : 33〜15 : 54</th>
<th>Poster 22</th>
<th>Malignant bone tumors</th>
<th>Moderator</th>
<th>T. Sugita</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-P-PS22-1</td>
<td>Treatment of the proximal femoral pathological fracture associated with plasma cell tumors  ..........Y. Tomiyama, et al., Div. of Orthop. Surg., Niigata Univ. Graduate School of Medicine and Dental Science…S1391</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 2-P-PS22-2 | Clinical characteristics of malignant lymphomas of bones diagnosed by the Orthop. examination  
T. Tsukanishi, et al., Dept. of Orthop. Surg., Chiba Cancer Center…S1391 |
| 2-P-PS22-3 | A case report: Mesenchymal chondrosarcoma of the rib  
| 2-P-PS22-4 | Dedifferentiated chondrosarcoma, report of 10 cases  
| 2-P-PS22-5 | Chondrosarcoma, report of 11 cases  
| 2-P-PS22-6 | Multicentric osseous pseudomyogenic hemangioendothelioma: A report of two cases with long-term follow-up  
N. Setsu, et al., Dept. of Musculoskeletal Oncology, National Cancer Center Hosp…S1393 |

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:00~18:10</td>
<td>Closing Address</td>
</tr>
</tbody>
</table>