



TRAINING DAY, WEDNESDAY MAY 29

ROOM K2

07.30	REGISTRATION (-16.00)
09.45	WELCOME GREETINGS Örjan Berlin, Local Host Peter Bergh, Head of Program Committee Robert Grimer, President of EMSOS
10.00	SESSION T1 - UPDATES ON BASICS OF BONE AND SOFT TISSUE SARCOMAS Chair: Lars-Gunnar Kindblom, co-Chair: Piero Picci
10.00	T1:101 The ways tumor specimens get handled by pathology after they leave the operating theatre Scott Nelson Prof, MD, UCLA, Los Angeles, CA, USA
10.15	T1:102 Molecular Biology of Neoplasms Shekar Kumta, Prof, The Chinese University of Hong Kong, Hong Kong
10.30	T1:103 Update on Classification and Grading of Bone and Soft Tissue Tumors Scott Nelson Prof, MD, UCLA, Los Angeles, CA, USA
10.45	SESSION T2 - STAGING & PROGNOSIS Chair: Piero Picci, co-Chair: Lars-Gunnar Kindblom Free Papers: T2:101 Trial For Optimal Surveillance In Sarcoma Ajay Puri, Prof., Tata Memorial Hospital, Mumbai, India T2:102 The clinical value of pretreatment C-reactive protein in predicting survival of patients with bone sarcoma Tomoki Nakamura, M.D., Mie Univ. Graduate School of Medicine, Japan T2:103 Post relapse survival in patients with Ewing sarcoma Stefania Di Girolami, M.D., Istituto Ortopedico Rizzoli, Bologna, Italy T2:104 Treatment and outcome of soft tissue sarcomas in the elderly and the very elderly: an analysis of 282 patients P. Lechler, MD Nuffield Orthopaedic Centre, United Kingdom T2:105 Negative prognostic factors in the treatment of Epithelioid Sarcoma Davide Donati, Prof, Rizzoli, Bologna, Italy T2:106 Necrosis and vascular invasion identifies high-risk small soft tissue sarcomas Emelie Styring, MD, Lund, Sweden T2:107 Is death within one year of diagnosis an indicator of delay in presentation for patients with Sarcomas? Krishna Reddy, Mr, Royal Orthopaedic Hospital, Birmingham, United Kingdom T2:108 Needle biopsy for sarcomas: does local recurrence along the tract really exist? Michele Boffano, Dr, CTO Hospital, Torino, Italy Discussion
11.30	SESSION T3 - EDUCATIONAL ISSUES IN MUSCULO SKELETAL TUMORS Chair: Robert Grimer, co-Chair: Örjan Berlin Introduction Örjan Berlin Musculo-Skeletal Tumor Teaching Programs in Birmingham Rob Grimer, Prof, Royal Orthopaedic NHS Foundation Trust, UK Musculo-Skeletal Tumor Teaching Programs in Bologna Piero Picci, Prof, Rizzoli Institute Bologna, Italy Free Papers: T3:101 Sarcoma awareness for Junior Doctors – A pilot study Coonoor Chandrasekar, Mr, Royal Liverpool University Hospital, UK T3:102 Surgical Training – Thinking Outside the Box Margareta Berg, MD, PhD, Surgicon Foundation, Sweden
12.00	Teaching the Teachers Rodney Peyton, Mr, OBE, FRCS, Dungannon, Northern Ireland
12.40	LUNCH & EXHIBITION BREAK
12.45	EMSOS Board Meeting VIP Lounge, floor 4, congress foayé (by invitation only)

5 MINUTES EACH

5 MINUTES EACH

13.30

SESSION T4 - BASIC SARCOMA SCIENCE Chair: John H. Healey, co-Chair: Andreas Leithner

T4:101 New Genetic Characteristics of Chondrosarcoma John Healey Prof, Memorial Sloan Kettering Cancer Center, New York, NY, USA

13.45

T4:102 Cancer Stem Cells in Sarcomas Jay Wunder, Prof, MD, Mount Sinai Hospital, Univ. of Toronto, Canada

14.00

T4:103 Enhancement of Structural Bone Allograft Incorporation with Artificial Periosteum containing Autologous Mesenchymal Stem Cells Yong-Koo Kang, Prof St. Vincent's Hospital, Suwon, Republic of Korea

14.10

Free Papers:

T4:104 Small molecules and their effect on osteosarcoma cell proliferation Doris Maugg, CCG Osteosarcoma, München, Germany

T4:106 The EGFR Inhibitor Gefitinib Sensitizes Osteosarcoma Cells Against Anthracycline-Based Chemotherapy In Vitro Florian Sevelde, Dr. MSc, Medical University Vienna, Austria
Discussion

5 MIN EACH

14.30

SESSION T5 - RARE TUMORS Chair: Scott Nelson, co-Chair: Andreas Leithner

14.30

Intermediate Rarely Metastasising Soft Tissue Tumors Lars-Gunnar Kindblom Prof, The Royal Orthopaedic Hospital NHS Foundation Trust, Birmingham, UK

14.50

T5:101 Myxoinflammatory fibroblastic sarcoma: single institution experience and pooled analysis of 138 published cases Marco Colangeli, MD, Istituto Ortopedico Rizzoli, Bologna, Italy

T5:102 Infantile Fibrosarcoma - a report from The Cooperative Weichteil Sarkom Studiengruppe Tobias Dantonello, Dr, Olgahospital, Klinikum Stuttgart, Germany

5 MINUTES EACH

T5:103 Clear Cell Sarcoma of the soft tissues. A retrospective analysis of 35 cases Giuseppe Bianchi, MD, Istituto Ortopedico Rizzoli, Bologna, Italy

T5:104 Results and prognostic in 15 patients with peripheral dedifferentiated chondrosarcoma Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy

T5:105 Tumors of the foot: epidemiologic analysis and principles of treatment: the Rizzoli Institute experience Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy

T5:106 Malignant bone tumors of the foot – a single-centre analysis of 29 patients Verena Anna Stockhammer, MD, Medical University Vienna, Austria

Discussion

15.30

COFFEE & EXHIBITION BREAK

16.00

SESSION T6 - METASTASIS Chair: Jay Wunder, co-Chair: Mikael Dalén

T6:101 Invasion and metastasis: from basics to real-time imaging Hiroyuki Tsuchiya, MD, PhD, Graduate School of Medical Science, Kanazawa University, Japan

Free Papers:

16.10

T6:102 Surgical treatment of humeral bone metastases - indications and outcome Dimosthenis Andreou, Dr, University Hospital Muenster, Germany

T6:103 A novel approach to predicting survival in patients with symptomatic spinal bone metastases Laurens Bollen, MD, LUMC, Leiden, The Netherlands

T6:104 Surgical Treatment of Metastatic Diaphyseal Fracture of the Humerus Surgical Treatment of Metastatic Diaphyseal Fracture of the Humerus Won-Jong Bakh, MD, The Catholic University of Korea, GYUNGGIDO, Rep of Korea

5 MINUTES EACH

T6:105 Surgical procedures for long bone metastases Oleg Vyrvva, Prof MD, Sytenko Institute, Ukraine

T6:106 A novel patient-derived intra-femoral xenograft model of bone metastatic prostate cancer that recapitulates mixed osteolytic and osteoblastic lesions Anna Kulidjian, Assist Clinical Prof, University of California, San Diego, CA, USA

Discussion

16.45

SESSION T7 - TIPS & TRICKS IN SARCOMA SURGERY Chair: Jendrik Harges, co-Chair: Sander Dijkstra

16.45

T7:101 Spine, sacral & pelvis resections: Reconstruction of bony defect after resection of malignant periacetabular tumor involving the sacroiliac joint Wei Guo, Prof, Peking University People's Hospital, Beijing, China

16.55

T7:102 Proximal femur and total femur resections Jendrik Harges, Prof Dr, University Clinic of Muenster, Germany

17.10

T7:103 Distal Femur and Proximal Tibia Resections Nicola Fabbri MD, PhD, Mem. Sloan Kettering CC, NYC, USA

Discussion

17.30

WELCOME RECEPTION

-19.00

In the exhibition area at the Congress Center. Hosted by the City of Göteborg and the Region of Västra Götaland.



CONGRESS DAY 1, THURSDAY MAY 30

	ROOM K2	ROOM K1	
07.30	REGISTRATION (-16.00)		
08.00	OPENING CEREMONY Örjan Berlin, Local Host Barbro Fridén, Honorary Guest, MD, PhD, CEO Sahlgrenska University Hospital Robert Grimer, President EMSOS		
08.15	PLENARY 1 TREATMENT STRATEGIES IN SARCOMAS Chair: Peter Choong, co-Chair: Robert Grimer	NEW KNOWLEDGE REGARDING SARCOMAS Chair: Lin Russell, co-Chair: Anders Danemo	08.20
08.15	O1:101 Non-metastatic osteosarcoma of the extremity. Neoadjuvant chemotherapy with methotrexate, cisplatin, doxorubicin and ifosfamide. An Italian Sarcoma Group survey. Stefano Ferrari, MD, Istituto Ortopedico Rizzoli, Bologna, Italy	The New Classification System of Bone and Soft Tissue Tumors Sumathi Vaiyapuri M.D. The Royal Orthopaedic Hospital NHS Foundation Trust, Birmingham, UK	
08.30	O1:102 Current indications for cryosurgery in orthopaedic oncology Domenico Campanacci, MD, Azienda Ospedaliera Universitaria Careggi, Italy		
08.40	O1:103 Exploring Multiferon Therapy in Patients with Desmoid Tumours in need of Medical Treatment where Surgery is not a Feasible Option. Jan Peter Poulsen, MD, PhD, Oslo University Hospital, Oslo, Norway	ETHICAL ISSUES IN TREATING SARCOMA PATIENTS The House of Good Care Jenny Wiklund/Karin Sjöberg, Registered Nurses, Sahlgrenska Univ Hospital, Gotheburg, Sweden	08.45
08.50	O1:104 Isolated Limb Perfusion - Experience at the West German Cancer Center Georg Täger, MD, PhD, West German Cancer Center, University of Duisburg, Essen, Germany		
09.05	Free Papers: O1:105 Isolated limb perfusion for primary, locally advanced soft tissue sarcomas of the extremities- prognostic factors and outcome Dimosthenis Andreou, Dr, University Hospital Muenster, Germany	QUALITY OF LIFE Transfemoral Amputation: Quality of Life and Prosthetic Function Kerstin Hagberg, Physio therapist, Sahlgrenska University Hospital, Gothenburg, Sweden	09.05
	O1:106 The value of isolated limb perfusion in the treatment of differently graded liposarcomas Lars Erik Podleska, Dr Med, University Hospital Essen, Germany	Physical and functional outcomes in patients after extensive pelvic resection without reconstruction - Case-study Raz Martikaro, Physio therapist, Sourasky Medical Center, Tel Aviv, Israel	09.35
	O1:107 Local and systemic toxicity of isolated limb perfusion Teymuraz Kharatishvili, Prof, Russian Cancer Research Center RAMS, Russia	Survivorship After Bone and Soft Tissue Sarcoma of the Extremities. A Systematic Review of the Literature Sherron Furtado, Research Physiotherapist, Newcastle NHS Foundation Trust, UK	09.45
	O1:108 Isolated limb perfusion in extremity soft tissue sarcomas - the Gothenburg experience Jan Mattsson MD, PhD, Sahlgrenska University Hospital, Gothenburg, Sweden		
	O1:109 New innovative treatment option of aneurysmal bone cysts with Denosumab Tobias Lange, MD, University Hospital Muenster, Germany	Quality of Life after High Sacral Amputation Peter Bergh, MD, PhD, Sahlgrenska University Hospital, Gotheburg, Sweden	09.50
	O1:110 Efficacy of gemcitabine plus docetaxel in patients with refractory osteosarcomas and soft tissue sarcomas: results of Phase II trial Shintaro Iwata, MD, Chiba Cancer Center, Chiba, Japan		
	Discussion		

10.00	COFFEE & EXHIBITION BREAK		
10.30	THE JOHAN JANSSON MEMORIAL GUEST LECTURE MGL1:101 Thirty-year Experience with Biological Reconstruction at Kanazawa University Hiroyuki Tsuchiya, Prof, MD, PhD, Graduate School of Medical Science, Kanazawa University, Japan		
11.00	PLENARY 2 BIOLOGIC RECONSTRUCTIONS Chair: Robert Pho, co-Chair: Örjan Berlin	THE PATIENTS PERSPECTIVE Chair: Lin Russell, co-Chair: Anders Danemo	11.00
	O2:101 Biologic reconstruction after bone tumor resections in children and adolescents Reynaldo Garcia MD, PhD, Federal University of Sao Paulo, Brazil	Six radical sarcoma operations in 16 years - "I'll get by with a little help from my friends" Åke Anderson	
	O2:102 Pedicled and free fibula grafts in primary reconstructions of the tibia: which and when? Marco Manfrini, MD, Istituto Ortopedico Rizzoli, Bologna, Italy		
	O2:103 Biological Reconstruction in high grade sarcomas - Patients under 12 years old Eduardo Sadao, MD, PhD, Santa Casa Medical School of Sao Paulo, Brazil	Three legs in 10 years - one patients experiences Christopher McCann	11.40
	O2:104 A new Score for the evaluation of radiographic and functional outcomes of custom made tumoral prosthesis. Reynaldo Garcia MD, PhD, Federal University of Sao Paulo, Brazil		
11.45	Free Papers: O2:105 Autobiologic reconstructions with vascularized fibula grafts revisited. Functional evaluation and a long-term follow-up (>10 years) Peter Bergh MD, PhD, Sahlgrenska University Hospital, Gothenburg, Sweden		
	O2:106 Limb salvage surgery for malignant tumors in proximal tibia involving fibula Xiaodong Tang, Archiater, Peking University People's Hospital, Beijing, China	Discussion	
12.10	LUNCH & EXHIBITION BREAK (12.10-13.30)		
12.30	LUNCH SYMPOSIUM The implantcast Systems in Musculoskeletal Oncology implantcast GmbH		
13.30	PLENARY 3 SURGICAL RECONSTRUCTIONS Chair: Reinhard Windhager, co-Chair: Peter Bergh	PLENARY 4 BONE & SOFT TISSUE SARCOMA Chair: Jay Wunder, co-Chair: Scott Nelson	13.30
	O3:101 The Role of Structural Allografts in Limb Salvage Surgery - A 22 Year Perspective William Ward Prof, MD, Guthrie Clinic, Sayre, PA, USA	O4:101 Massive Pseudotumors that Occur Around Implanted Devices Scott Nelson Prof, MD, UCLA, Los Angeles, CA, USA	
13.45	Free Papers: O3:102 More than thirty years follow-up of first generation proximal femur reconstruction Björn Gunterberg, MD, PhD, Sahlgrenska University Hospital, Gothenburg, Sweden	Free Papers: O4:102 A comprehensive study of 214 osteosarcomas of the jaws Philippe Brunner, Dr med, University Hospital Basel, Switzerland	13.45
	PLENARY 3 Continued on next page...	PLENARY 4 Continued on next page...	



5 MINUTES EACH

PLENARY 3 Continued

O3:103 Reverse shoulder prosthesis after resection of the proximal humerus for bone tumours Anne Kaa, Medical student, Aarhus University Hospital, Denmark

O3:104 The Outcome of Total Humeral Endoprosthetic Reconstruction for Bone Tumours Hazem Wafa, Mr, The Royal Orthopaedic Hospital, Birmingham, United Kingdom

O3:105 Tumor endoprosthetic replacement after extraarticular knee resection in bone and soft tissue tumors Jendrik Harges, Prof Dr, University Clinic of Muenster, Germany

O3:106 Functional reconstruction of total femur with megaprotheses Domenico Campanacci, MD, Azienda Ospedaliera Universitaria Careggi, Italy

O3:107 Total femur prostheses for reconstruction after resection of sarcomas Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy

O3:108 Mid-term results after MUTARS prosthesis in the distal femur and proximal tibia reconstruction: a retrospective study in 97 patients P.D.Sander Dijkstra, MD, PhD, Leiden University Medical Centre, Leiden, The Netherlands
Discussion

14.30

**PLENARY 5
SURGICAL COMPLICATIONS**

Chair: Jendrik Harges, co-Chair: Domenico Campanacci

O5:101 A new implant technology: iodine-coating for infection control Hiroyuki Tsuchiya, Prof, MD, PhD, Graduate School of Medical Science, Kanazawa University, Japan

14.45

Free Papers:

O5:102 Total Femur Replacement - significant differences in varying indications? Andreas Toepfer, Dr med. Klinikum rechts der Isar der TUM, Germany

O5:103 Retrospective Evaluation of the Incidence of Early Periprosthetic Infection with Silver-Treated Custom Megaprotheses in High Risk Patients: Case Control Study Hazem Wafa, Mr, The Royal Orthopaedic Hospital, Birmingham, UK

O5:104 Second cancers after endoprosthetic replacement: is metal bad for you? Robert Grimer, Prof, Royal Orthopaedic Hospital, NHS Foundation Trust, Birmingham, UK

O5:105 Implantable venous port systems - prevention of infectious complications in children with bone tumors after the arthroplasty Maxim Rykov, MD, Institute of Pediatric Oncology, Moscow, Russia

5 MINUTES EACH

PLENARY 4 Continued

O4:103 Does amputation offer survival-benefit over limb-salvage in patients with Osteosarcoma with poor chemo-necrosis and close margins? Krishna Reddy, Mr, Royal Orthopaedic Hospital, Birmingham, United Kingdom

O4:104 Local recurrence in Ewing's sarcoma after good response to chemotherapy: disease or treatment? Anna Price, MD, Royal Orthopaedic Hospital, Birmingham, United Kingdom

O4:105 Risk Stratification and Pattern of Cardiotoxicity in Pediatric Ewing's sarcoma Emad Moussa, MD, The Children's Cancer Hospital, Kairo, Egypt

O4:106 Creating a risk based protocol for local recurrence in soft tissue sarcomas Robert Grimer, Prof, Royal Orthopaedic Hospital, NHS Foundation Trust, Birmingham, United Kingdom

O4:107 What is the significance of necrosis following neoadjuvant chemotherapy in osteosarcoma? Robert Grimer, Prof, Royal Orthopaedic Hospital, NHS Foundation Trust, Birmingham, United Kingdom

Discussion

5 MINUTES EACH

**PLENARY 6
CHONDROSARCOMA, OSTEOSARCOMA & GIANT CELL TUMORS**

Chair: Andreas Leithner, co-Chair: Dimosthenis Andreou

Free Papers:

O6:101 Chondrosarcoma of the hands and feet: When to worry? Anna Price, MD, Royal Orthopaedic Hospital, Birmingham, United Kingdom

O6:102 Metastatic potential of low-grade chondrosarcoma of bone - results of a multi-institutional study Dimosthenis Andreou, Dr University Hospital Muenster, Germany

O6:103 How safe is curettage of low-grade cartilaginous neoplasms following radiological diagnosis alone? Matthew Brown, Mr, Royal National Orthopaedic Hospital, Stanmore, United Kingdom

O6:104 Long-term outcome in 64 patients after curettage with polymethylmethacrylate for giant cell tumor around the knee: Higher risk of osteoarthritis? Lizz van der Heijden, MSc, MA, Leiden University Medical Center, Leiden, The Netherlands

O6:105 Giant cell tumors of the small bones of hands and feet: Longterm results of 30 patients and literature review Lizz van der Heijden, MSc, MA, Leiden University Medical Center, The Netherlands

O6:106 Hand Tumors - Series of 110 cases DM Chetan, MD, Mysore, India

14.30

5 MINUTES EACH

5 MINUTES EACH

O5:106 Preliminary results of reverse total shoulder arthroplasty for tumors of proximal humerus Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy

O5:107 Proximal humerus reconstruction with MRS® Bioimpianti prostheses after resection of bone tumors: an analysis of 255 cases Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy

O5:108 Survival of Modern Tumor Endoprostheses: complications, functional results, and a comparative statistical analysis Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy

O5:109 Modular prosthesis with a silver porous surface modification for periarthral reconstruction of the lower limb Domenico Campanacci, MD, Azienda Ospedaliera Universitaria Careggi, Italy

Discussion

15.30

COFFEE & EXHIBITION BREAK

16.00

POSTER SESSION REVIEW (ROOM K2)

-17.00

Chairmen: Dr Peter Choong & Nicola Fabbri

PSR:101 Treatment of periprosthetic fractures in patients treated with a megaprosthesis after resection of a malignant bone tumour Sebastian Bockholt Dr med, Münster University Hospital, Muenster, Germany

PSR:102 Malignant bone tumors of the pelvis - biological reconstruction after surgical therapy Frank Traub, MD, PhD, Sarcoma Center Berlin-Brandenburg, Berlin, Germany

PSR:103 Intra-abdominal and retroperitoneal metastases in patients with soft tissue sarcomas - a two-center study Angelika Schaffler, MD, Medical University Graz, Austria

PSR:104 The use of modular Tumourprostheses in the Treatment of skeletal Metastases Marcel-Philipp Henrichs, MD, University Hospital Münster, Muenster, Germany

PSR:105 Complications associated with the artificial bone graft substitute GeneX Ulrike Pirker-Frühauf, MD, Medical University Clinic Graz, Austria

PSR:106 Malignant Pelvic Resections - The Blood (patient's), Toil & Sweat (surgeon's): Is it worth the effort? Ajay Puri, Prof., Tata Memorial Hospital, Mumbai, India

PSR:107 Incidence and distribution of chordoma: A study analysing data from the "Surveillance, Epidemiology and End Results" program Stefan Gerger MD, Medical University Clinic Graz, Austria

PSR:108 Laparoscopic assisted resection of an ileosacral chondrosarcoma C.E. Dumont Dr.med, Orthopaedie Zentrum Zuerich, Switzerland

PSR:109 Returning to life after treatment end: quality of life in survivors of osteosarcoma of developmental age Cristina Meazza, MD, University of Milan, Milan, Italy

PSR:110 Elevated preoperative neutrophil/lymphocyte ratio is associated with poor prognosis in soft-tissue sarcoma patients Joanna Szkandera, MD, Medical University of Graz, Austria

Drs Choong & Fabbri's selected Posters (x4)

17.50

CANAL BOAT VOYAGE INTO THE ARCHIPELAGO

Assembly at the boats, entrance 2 (400 meters from the Congress Venue)

18.00

Boat departure

19.30

EMSOS DINNER & ENTERTAINMENT

KAJSKJUL 8 (-23.00)

5 MINUTES EACH



CONGRESS DAY 2, FRIDAY MAY 31

	ROOM K2	ROOM K1
07.30	REGISTRATION (-16.00)	
07.20	EMSOS GENERAL ASSEMBLY (-07.50)	
08.00	PLENARY 7 SPINAL, SACRAL & PELVIC TUMOR SURGERY <i>Chair: Franklin Sim, co-Chair: Peter Choong</i> 07:101 "The Classics" in Spinal Reconstruction Björn Gunterberg, MD, PhD, Sahlgrenska University Hospital, Sweden 07:102 Video laparoscopic approach – Technique for sacral resection Eduardo Sadao, MD, PhD, Santa Casa Medical School of Sao Paulo, Brazil 07:103 Endoscope assisted total spondylectomy for malignant or aggressive bone tumors of the spine Yong-Koo Kang, Prof, St. Vincent's Hospital, Suwon, Republic of Korea 07:104 Outcome of Surgical Treatment of Pelvic Osteosarcoma Wei Guo, Prof, Peking University People's Hospital, China 07:105 Surgical Tumor Resection in Combination with Pre-Operative Radiation for Treatment of Primary Sacral and Coccygeal Chordomas Polina Osler, MD, Harvard Medical School (MGH), Boston, USA 07:106 En Bloc Resection in Combination with High Dose Radiation Improves Patient Survival in Mobile Spine Chordoma Polina Osler, MD, Harvard Medical School (MGH), Boston, USA 07:107 Surgical resection of sacral chordoma: an update of the Rizzoli experience on 71 cases Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy 07:108 Ewing sarcoma of the sacrum: clinical outcome of 19 patients in a single institution Pietro Ruggieri, MD, PhD, University of Bologna, Istituto Rizzoli, Bologna, Italy Free papers: 07:109 Chondrosarcoma of the mobile spine and sacrum. A clinical series with minimum 13,5 years follow-up. Björn Gunterberg, MD, PhD, Sahlgrenska University Hospital, Gothenburg, Sweden 07:110 Results of surgical treatment of Ewings sarcoma of the pelvis. Philipp Funovics, Prof Dr, Medical University of Vienna, Austria 07:111 Surgical Outcome of Internal and External Hemipelvectomy in Patients above the Age of 65 years Wiebke Guder, MD, University Hospital Muenster, Germany 07:112 Quality of Life after Sacral Tumor Resection Kathryn Hess, MD, Massachusetts General Hospital, Boston, USA 07:113 Ewing's Sarcoma of the Pelvic Girdle Treated with Cryoablation in Lieu of Wide Local Resection. Report of Eight Consecutive Patients. Shlomo Dadia, MD, Sourasky Medical Center, Tel Aviv, Israel	07.45 - 12.30 CLOSED OSOS MEETING (OSOS registrants only)
12 MINUTES EACH		
08.50		
09.05		
09.20		
5 MINUTES EACH		

	07:114 Neurogenic tumors of the sacrum. 10 years experience of a single institution Elmar Musaev, MD, N.N.Blokhin RONC, Moscow, Russia Discussion
10.00	COFFEE & EXHIBITION BREAK
10.30	THE BERTIL STENER MEMORIAL GUEST LECTURE MGL2:101 Teamwork in Musculoskeletal Oncology Franklin Sim, Prof, MD, Mayo Clinic, Rochester, MN, USA
11.00	PLENARY 8 NAVIGATIONAL SURGERY <i>Chair: Shekar Kumta, co-Chair: Lee Jeys</i> 08:101 Computer-Assisted Tumor Surgery (CATS) in Orthopaedic Oncology: How far have we come? KC Wong, MD, Prince of Wales Hospital, Chinese University of Hong Kong, China 08:102 Computer Aided Precision Surgery in MSK Oncology Shekar Kumta, Prof, MD, The Chinese University of Hong Kong, China 08:103 Computer navigation assisted surgery for tumors resection and allograft reconstruction in the extremities Luis Aponte, Hospital Italiano de Buenos Aires, Argentina 08:104 Computer navigation assisted surgery for pelvic and sacral tumours: experience of a tertiary centre Lee Jeys, Mr, Royal Orthopaedic Hospital, Birmingham, United Kingdom Free papers: 08:105 Computer-assisted planning and patient-specific instruments for bone tumor surgery within the pelvis. Clinical preliminary experience. Francois Gouin, Prof, Centre Hospitalier Universitaire, Nantes, France 08:106 Computer-assisted planning and patient-specific instruments for bone tumor surgery within the pelvis – an experimental study Laurent Paul, PhD, Université catholique de Louvain, Belgium Computer-assisted 08:107 Applications of computer assisted surgery in orthopedic oncology; 130 cases Paul Jutte, MD, University Medical Center Groningen, The Netherlands 08:108 The outcomes of navigation-assisted bone tumour surgery: minimum three-year follow-up Hae Bong Park, MD, Seoul National University Bundan Hospital, Republic of Korea Discussion
10 MINUTES EACH	
11.40	
5 MINUTES EACH	
12.10	LUNCH & EXHIBITION BREAK
12.30	LUNCH SYMPOSIUM
-13.20	Latest intraoperative imaging technology for musculoskeletal tumor surgery SIEMENS



13.30

PLENARY 9 REHABILITATION

Chair: Andreas Leithner, co-Chair: Sven Inerot

Free Papers:

O9:101 Sports activity levels of healthy long term survivors with modular tumor endoprostheses following osteosarcoma of the knee joint Nikolaus Lang, MD, Medical University of Vienna, Austria

O9:102 Sports activity levels in long-term survivors of Ewing sarcoma in spine, pelvis and lower extremity Gerhard Hobusch, MD, Medical University of Vienna, Austria Sports activity

O9:103 Patient Outcome Following Inpatient Rehabilitation within the London Sarcoma Service Abigail McCarthy, Mrs, Royal National Orthopaedic Hospital, London, United Kingdom

O9:104 Functional outcome and quality of life after resection of the proximal humerus in musculoskeletal tumours Imre Antal, MD, PhD, Semmelweis University, Budapest, Hungary

O9:105 Functional results of Modular Prosthesis Replacement for Malignant Tumors of the Extremities Oleg Vyrva, Prof, MD, Sytenko Institute, Kharkiv, Ukraine

O9:106 Early rehabilitation using temporal external fixation following resection of pelvic sarcoma Toshiyuki Kunisada, MD, PhD, Okayama University Graduates Schools, Japan

O9:107 Can Immunohistochemical characterisation of liposarcoma guide the selection for novel therapy based on the P53 – MDM interactions? Nader Touqan, Mr, University of Leeds, United Kingdom

O9:108 Inhibition of sirtuin-1 activity as a potential therapeutic strategy for pediatric soft tissue sarcomas. Bertha Brodin, Ass Prof, Karolinska Institute, Stockholm, Sweden

O9:109 Genomic instability and characteristic DNA methylation pattern in chordoma Beate Rinner, PhD, Medical University of Graz, Austria

O9:110 Gene expression of extracellular matrix proteins in lung metastases of giant cell tumour of bone: tumour or location specific? Marusya Lieveld, Drs Pathlicon, Belgium

Discussion

5 MINUTES EACH

PLENARY 10 - EMSOS/OSOS JOINT SESSION OSSEOINTEGRATION

Chair: Richard O'Donnell, co-Chair: Anna Kulidjian

O10:101 Osseointegration: An overview Rickard Brånemark, MD, PhD, MSC, Sahlgrenska University Hospital, Gothenburg, Sweden

13.45 - Free papers (5 minutes each):

O10:102 A decade's experience with the Integral Leg Prosthesis (ILP): a case series study of design modifications to prevent infection Horst Aschoff, Dr, Sana Clinics, Lübeck, Germany

O10:103 Case presentations of the Integral Leg Prosthesis (ILP): achievements and pitfalls Horst Aschoff, Dr, Sana Clinics, Lübeck, Germany

O10:104 Bone Anchored Prosthesis with the Osseointegration Technique in Transfemoral Amputees. Results from the Prospective OPRA Study Örjan Berlin, MD, PhD, Sahlgrenska University Hospital, Gothenburg, Sweden

O10:105 Osseointegration is a viable solution for rehabilitating patients post tumor-related amputations Munjed Al Muderis, Dr, Macquarie University, Sydney, Australia

O10:106 Rehabilitation in patients with conventional amputation versus patients with osseointegrated prostheses Kerstin Hagberg PT, Sahlgrenska University Hospital, Gothenburg, Sweden

O10:107 Osseointegration: The experience of the first seven patients in Leiden Nicolette Leijerzapf, Nurse practitioner, Leiden University Medical Center, The Netherlands

Discussion

14.30

PLENARY 11 ROBOTICS & INNOVATIVE TREATMENT

Chair: Shekar Kumta, co-Chair: Peter Bergh

O11:101 The use of Additive Layer Manufacturing (ALM) for the fabrication of specialized limb salvage implants Paul Unwin Dr, Stanmore Implants, Stanmore, United Kingdom

14.45

O11:102 Basic Sciences and Bioengineering of Microwave Hyperthermia in Limb Salvage Edmund Chao, PhD, Em Prof, Mayo Clinic & Johns Hopkins University, USA

15.05

O11:103 Microwave Hyperthermia Applied to Limb-salvage Surgery for Malignant Bone Tumors Qing-Yu Fan, Prof, MD, Tangdu Hospital, China

15.20

O11:104 Recycled autograft augmented with vascularised fibular graft for reconstruction of bone defects caused by tumor resection Yong-Koo Kang, Prof, St. Vincent's Hospital, Suwon, Republic of Korea

15.30

COFFEE & EXHIBITION BREAK

16.00

PLENARY 13 MISCELLANEOUS IMPORTANT NEWS

Chair: Örjan Berlin co-Chair: Robert Grimer

O13:101 Allografts versus Iliac Crest Autografts as a Bone Void Filler William Ward Prof, MD, Guthrie Clinic, Sayre, PA, USA

16.15

O13:102 Improving Outcomes in Soft Tissue Sarcoma with Coordinated Surgery and Intensity Modulated Radiotherapy (IMRT) Jay Wunder, Prof, MD, Mount Sinai Hospital, Univ. of Toronto, Canada

16.25

Survival after "oops lesions" Peter Choong Prof, St Vincent's Hospital, Melbourne, Australia

16.35

O13:103 What's New in Complex Limb Salvage and Reconstructive Procedures Nicola Fabbri MD, PhD, Memorial Sloan Kettering Cancer Center, New York, NY, USA

16.45

PRIZE WINNING AWARD CEREMONIES

16.50

CLOSING REMARKS

Robert Grimer / Örjan Berlin / Reinhard Windhager

AUF WIEDERSEHEN IN VIENNA

PLENARY 12 - EMSOS/OSOS JOINT SESSION COMPRESSIVE OSSEOINTEGRATION 1

Chair: Anna Kulidjian, co-Chair: Richard O'Donnell

O12:101 Longer Term Follow Up of Compress TKR Fixation John H. Healey Prof, MD, Memorial Sloan Kettering Cancer Center, New York, NY, USA

O12:102 Reconstruction of massive bone defects using compressive osseointegration Franklin Sim, Prof, MD, Mayo Clinic, Rochester, MN, USA

A dual center review of compressive osseointegration for fixation of massive endoprosthetics: - 2-9 year follow-up George T. Calvert MD, City of Hope National Medical Center, Pasadena, CA, USA

Intermediate term compressive osseointegration follow-up: The experience in Belgium Ignace Samson MD, University Hospital Pellenberg, Pellenberg, Belgium

PLENARY 14 - EMSOS/OSOS JOINT SESSION COMPRESSIVE OSSEOINTEGRATION 2

Compressive osseointegration of proximal femoral oncologic implants Lauren A. Hackney MD, University of California, San Francisco, CA, USA

Compressive osseointegration for distal femur reconstruction in patients with giant cell tumor Debbie Y. Dang MD, University of California, San Francisco, CA, USA

Endoprosthetic reconstruction using compressive osseointegration technology for proximal tibial primary oncologic defects Brian J. Cook MD, University of California, San Francisco, CA, USA

Panel Discussion:

Compressive osseointegration technology
Moderator: Richard J. O'Donnell, M.D. University of California, San Francisco, CA, USA

CLOSING REMARKS

Orthopaedic Osseointegration and the OSOS
Richard J. O'Donnell, M.D. University of California, San Francisco, CA, USA