

EMSOS



European Musculo-Skeletal Oncology Society

33rd Annual Meeting 01-03 Dec, 2021 Graz, Austria

21st EMSOS Nurse and Allied Professions
Group Meeting

Preliminary Programme



www.emsos2021.org

33rd Annual Meeting of European Muscolo-Skeletal Oncology Society

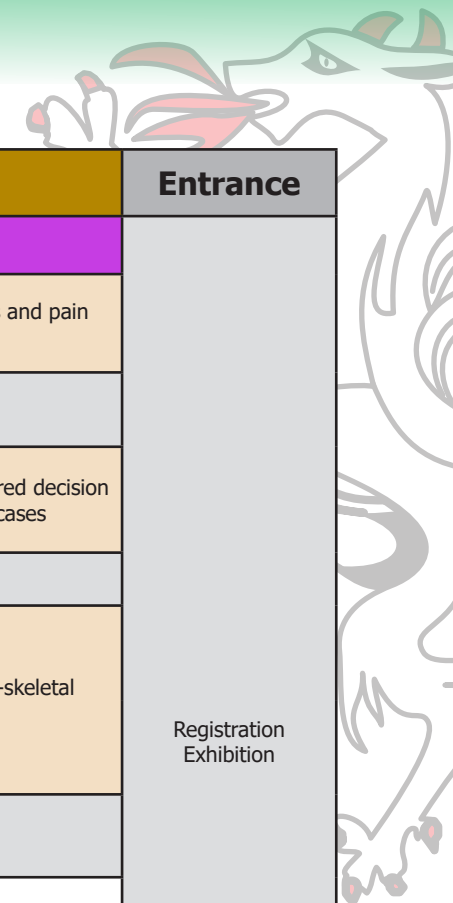
21st EMSOS Nurse and Allied Professions Group Meeting

Location: Messecongress Graz, Austria
Date: 01 - 03 Dec 2021

Preliminary Programme-at-a-glance

Wednesday, 01 Dec 2021

Time	Plenary room	Room 2	Room 3	Room 4	Entrance	
08:55 - 09:00	Opening words					Registration Exhibition
09:00 - 10:30	News in pathology: The role of pathology in the era of next generation sequencing	Free topics: Flash Session 1: Benign soft tissue tumors	Free topics: Flash Session 5: Benign bone tumours	Nursing, nutritional aspects and pain management		
10:30 - 11:00	Coffee break Poster walk 1	Coffee break Poster walk 1	Coffee break Poster walk 1	Coffee break Poster walk 1		
11:00 - 12:30	What's new in the systemic treatment of soft tissue sarcomas?	Free topics Flash session 2: Bone reconstruction	Free topics: Flash Session 6: Soft tissue sarcomas	Communicational skills & shared decision making in oncological cases		
12:30 - 13:30	Lunch	Lunch	EMSOS Board Meeting	Lunch		
13:30 - 14:30	Implantcast symposium	Pediatric sarcomas		Physiotherapy in musculo-skeletal oncology		
14:30 - 15:30	Pelvic surgery	Free topics: Flash session 3: Pediatric sarcomas	Liquid biopsy			
15:30 - 16:00	Coffee break Poster walk 2	Coffee break Poster walk 2	Coffee break Poster walk 2	Coffee break Poster walk 2		
16:00 - 17:30	Infected Megaprotheses: Prevention and Treatment	Free topics FLASH session 4: Pelvis and spine	Basic Sarcoma research: new mouse models, in vitro 3D sarcoma models			
17:30-17:45	break					
17:45 - 18:15	EMSOS lecture					
18:15-18:30	break					
18:30 - 19:30	EMSOS General Assembly					



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Thursday, 02 Dec 2021

Time	Plenary room	Room 2	Room 3	Room 4	Entrance
09:00 - 10:30	Interdisciplinary treatment of metastases	RTX, carbon & proton therapy	Free topics Flash session 8: From bench to bedside	Free topics: Flash session 11: Soft tissue sarcoma 2	Registration Exhibition
10:30 - 11:00	Coffee break Poster walk 3	Coffee break Poster walk 3	Coffee break Poster walk 3	Coffee break Poster walk 3	
11:00 - 12:30	New guidelines and studies in sarcoma	Man vs. machine: deep learning and heavy statistics in sarcoma treatment	Free topics Flash session 9: Complications and quality of life	Free topics: Flash session 12: Bone saromas 2	
12:30 - 13:30	Lunch	Lunch	Lunch	Lunch	
13:30 - 14:30	Update in the treatment of abdominal sarcomas	Free topics Flash session 7: Interdisciplinary treatment of metastatic disease	Free topics Flash session 10: Bone sarcomas 1	Free topics: Flash session 13: Infections and complications	
14:30 - 15:30	Limb sparing surgery vs. amputation			Free topics: Flash session 14: Bone metastases	
15:30 - 16:00	Coffee break Poster walk 4	Coffee break Poster walk 4	Coffee break Poster walk 4	Coffee break Poster walk 4	
16:00 - 16:30	Campanacci lecture				
16:30 - 17:30	difficult case discussion & panel hot seat & voting				

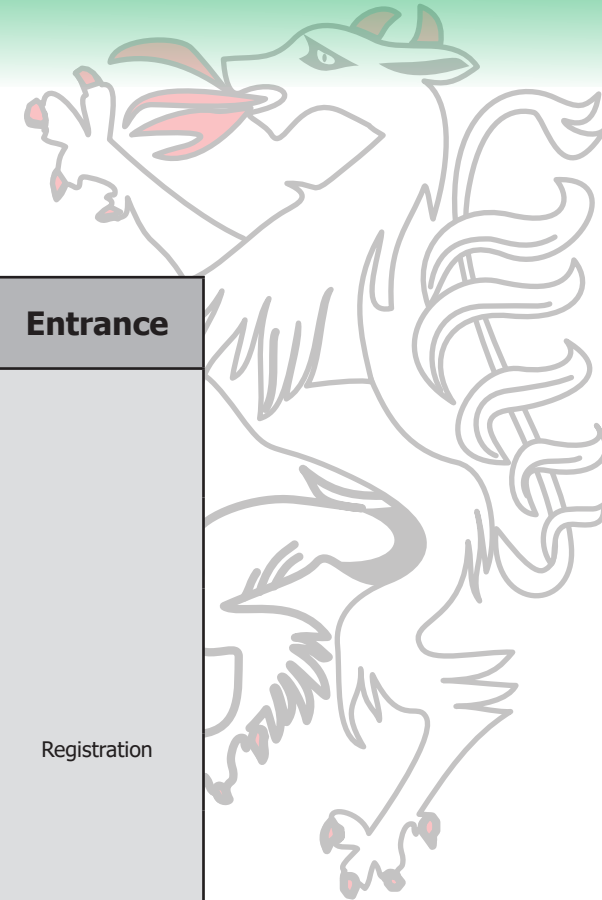
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Preliminary Programme-at-a-glance

Training day

Location: Messecongress Graz, Austria
Date: 01 - 03 Dec 2021



Friday, 03 Dec 2021

Time	Plenary room	Entrance
09:00 - 10:30	Session 1: Training Day - Soft Tissue Sarcoma: From MRI to Radiotherapy	Registration
10:30 - 11:00	Coffee break	
11:00 - 12:30	Session 2: Training Day - Interactive cases soft tissue - AMSOS meets EMSOS	
12:30 - 13:30	Lunch	
13:30 - 15:00	Session 3: Training Day - Bone Sarcoma: From x-ray to resection	
15:00 - 15:30	Coffee break	
15:30 - 17:00	Session 4: Training Day - Interactive cases bone Central Europe meets EMSOS	

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Preliminary Programme

Wednesday, 01 Dec 2021

08:55-09:00 Opening words

09:00 - 10:30 a.m.

News in Pathology: The role of pathology in the era of next generation sequencing

Moderator: Baumhoer & Forsyth

09:00 - 09:15 (12'+3')	The role of molecular diagnostics (FISH/NGS) in the diagnosis of "Vascular soft tissue and bone tumors" Wardelmann
09:15-09:30 (12'+3')	The morphologic spectrum of NTRK fusion tumors in soft tissue - molecular testing needed? Liegl-Atzwanger
09:30-09:45 (12'+3')	Chordoma – What's new in the classification - poorly and dedifferentiated Flanagan
09:45-10:00 (12'+3')	The role of NGS in osteosarcoma Baumhoer
10:00-10:15 (12'+3')	What's new in the classification of cartilaginous tumors? Bovee
10:15-10:30 (12'+3')	Giant cell Tumor of bone - treatment changes and molecular testing Hartmann

10:30-11:00 Coffee break
Poster walk & exhibition

11:00 a.m. - 12:30 p.m.

What's new in the systemic treatment of soft tissue sarcomas?

Moderator: Szkandera & Brunello

11:00-11:15 (12'+3')	Targeted therapy in soft tissue sarcoma Stacchiotti
11:15-11:30 (12'+3')	Best treatment options for desmoid tumors Kasper

11:30-11:45 (12'+3')	The EU initiatives: EURACAN and the European Reference Networks Casali
11:45-12:15 (10'+10'+10')	Battle: Soft tissue sarcomas – should apps tell us what to do? Van de Sande vs. (yes) Reichardt (no)
12:15-12:18 (3')	BCOR Expression in Synovial Sarcoma Predicts Improved Disease-Free and Overall Survival (ID: 529) Chebib
12:18-12:21 (3')	Treatment of NTRK fusion-positive infantile fibrosarcomas with NTRK-inhibitors in two female patients (ID: 290) Tesch
12:21-12:24 (3')	Which patients with pre-treated locally advanced or metastatic sarcoma benefit most from trabectedin treatment? First results from a retrospective study of the German Interdisciplinary Sarcoma Group (GISG-14 ReTraSarc) (ID: 176) Andreou
12:24-12:30 (6')	discussion

12:30 - 13:30 Lunch

13:30 - 14:30 Lunch symposium

14:30 - 15:30 p.m.

Pelvic surgery

Moderator: Ruggieri & Streitbürger

14:30-14:45 (12'+3')	Navigation Jeys
14:45-15:00 (12'+3')	Reconstruction after pelvic resection: Why I do not close the pelvis Ruggieri
15:00-15:15 (12'+3')	Pelvic reconstruction: When I choose to close the pelvic ring Kotrych
15:15-15:18 (3')	Walking balance and compensatory gait mechanisms in surgically treated patients for pelvic musculoskeletal tumours – A presentation of preliminary findings (ID: 467) Furtado
15:18-15:21 (3')	Percutaneous stabilization of symptomatic sacral and acetabular column metastatic lesions with photodynamic nails (ID: 422) Lozano-Calderon
15:21-15:24 (3')	Surgical management of sacral chordoma (ID: 532) Musaev
15:24-15:30 (6')	discussion

15:30-16:00 Coffee break
Poster walk & exhibition

16:00 - 17:30 p.m.

Infected Megaprosthesis: Treatment & Prevention

Moderator: Donati & Glehr

16:00-16:15 (12'+3')	Introductory lecture: Prophylactic Antibiotic Regimens In Tumor Surgery (PARITY): An International, Multi-Center Randomized Controlled Trial Comparing Alternative Antibiotic Regimens in Patients Undergoing Tumor Resection and Endoprosthetic Reconstruction of the Lower Extremity (ID: 454) Ghert
16:15-16:45 (10'+10'+10')	Battle: Silver coating: Risk or reason? Hardes (reason) vs. Windhager (risk)
16:45-16:48 (3')	Por-Ag silver coated mega-prosthesis in non-oncological patients: a retrospective analysis (ID:239) Mani
16:48-16:51 (3')	A new antibiotic prophylaxis approach can decrease infection rate and mor-bidity. Results from a prospective study (ID: 143) Boffano
16:51-16:54 (3')	Does the duration of primary and first revision surgery influence the probability of first and subsequent megaprosthesis failures after extremity sarcoma resection Theil
16:54-17:00 (6')	discussion
17:00-17:30 (10'+10'+10')	Battle: Infected (Mega-)Prostheses – one-stage vs. two-stage revision Glehr (one-stage) vs. Lehner (two-stage)

17:45 - 18:15 p.m.

EMSOS lecture

Moderator & Introduction: Scheipl

17:45-18:15	The role of next generation sequencing in modern pathology and its impact on the current WHO classification of bone and soft tissue tumors Flanagan
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18:30- 19:30 p.m.

EMSOS General assembly

08:55-09:00

Opening words

09:00 - 10:30 a.m.

Free topics:**Flash session 1: Benign soft tissue tumors****Moderator: Mavcic & Niethard**

09:00 - 09:15 (12'+3')	Introductory lecture: diffuse giant cell tumour of tendon sheath: what's new? Mastboom
09:15-09:20 (5')	Clinicians' adherence to practice guidelines for soft tissue sarcoma analyzed with quality indicator (ID: 228) Iwata
09:20-09:25 (5')	Prognoses of superficial soft tissue sarcoma: The importance of fascia-tumor relationship on MRI (ID: 56) Han
09:25-09:30 (5')	What is the Role of Arthroscopy in PVNS? A consecutive series of 53 patients treated for PVNS of the Knee (ID: 300) Thomson
09:30-09:35 (5')	Surgical management of 244 TGCT patients in a single institution: a 20-year cohort study (ID: 457) Spierenburg
09:35-09:40 (5')	The role of denosumab in the management of unresectable Giant Cell Tumour of Bone(GCTB): A systematic review with an illustrative case report (ID: 37) Fahy
09:40-09:55 (15')	<i>discussion</i>
09:55-10:00 (5')	Tenosynovial giant cell tumor in the foot and ankle (26 cases with the mean 73 months follow-up period) (ID: 5) Cevik
10:00-10:05 (5')	Safety and preliminary efficacy of vimseltinib in tenosynovial giant cell tumor (TGCT) (ID: 470) Van de Sande
10:05-10:10 (5')	Prognosis and clinical outcomes of extra-thoracic solitary fibrous tumours (ID: 259) Shah
10:10-10:15 (5')	FAP-related desmoid tumors treated with low-dose chemotherapy: results from an international, multi-institutional, retrospective analysis (ID: 31) Napolitano
10:15-10:30 (15')	<i>discussion</i>

10:30-11:00

**Coffee break
Posterwalk & exhibition**

**Free topics:
Flash session 2: Bone reconstruction**
Moderator: Angelini & Yalcinkaya

11:00-11:04 (4')	Juxta-articular distal femur resection sparing knee joint with custom made surgical guide (ID: 204) Spazzoli
11:04-11:08 (4')	Usage of absorbable attachment tubes in megaendoprosthetic reconstructions – a proof of principle (ID: 262) Streitbürger
11:08-11:12 (4')	Computed tomography-guided navigation versus computer navigation-assisted surgery in the resection of musculoskeletal tumors (ID: 134) Funovics
11:12-11:16 (4')	The outcome of Joint Sparing Endoprosthesis (JSE) as a reconstructive modality after resection of juxta articular bone sarcoma (ID: 59) Shehadeh
11:16-11:20 (4')	Outcomes following endoprosthetic replacement with cemented stems for proximal tibia tumors (ID: 269) Chalopin
11:20-11:32 (12')	<i>discussion</i>
11:32-11:36 (4')	Biomechanical comparison of bone recycling methods in biological reconstructions (ID: 282) Aycan
11:36-11:40 (4')	Bayley Walker proximal humeral reconstruction – The Stanmore experience (ID: 236) Aston, Harvard
11:40-11:44 (4')	Long term outcomes in distal femoral replacement for tumors (ID: 304) Tayara
11:44-11:48 (4')	Vascularized Bone Graft Reconstruction following Bone Tumor Resection: An Outcome Analysis of a Multidisciplinary Center for Bone and Soft Tissue Sarcoma (ID: 106) Gorski & Krieg
11:48-11:52 (4')	Multidisciplinary approach in musculoskeletal oncology: collaboration between vascular and orthopedic surgeon in complex cases (ID: 220) Ruggieri
11:52-12:04 (12')	<i>discussion</i>
12:04-12:08 (4')	Titanium custom-made implants as novel approach to reconstructive surgery after oncologic resection in pediatric patients (ID: 135) Beltrami
12:08-12:12 (4')	Customized jigs in joint sparing resection and massive allograft reconstruction (ID: 291) Campanacci
12:12-12:16 (4')	Intra-articular soft-tissue sarcoma of the knee — is extra-articular resection and tumor endoprosthetic reconstruction the solution? A retrospective report on eight cases (ID: 30) Nottrott
12:16-12:20 (4')	Preliminary results of two stage intercalary diaphysis bone loss reconstruction combining Campana technique and Masquelet induced membrane: the "Ca-pasquelet" Technique.(ID: 252) Crenn
12:20-12:30 (12')	<i>discussion</i>

12:30 - 13:30 Lunch

13:30 - 14:30 p.m.

Pediatric sarcomas**Moderator: Benesch & Dirksen**

13:30-13:45 (12'+3')	Epigenetic data on Ewing sarcomas Tomazou
13:45-14:00 (12'+3')	The role of pathology in the diagnosis of round blue cell tumours Liegl-Atzwanger
14:00-14:30 (10'+10'+10')	Battle: Immunotherapy for bone sarcomas Bielack (contra) vs. Palmerini (pro)

14:30 - 15:30 p.m.

**Free topics:
Flash session 3: Pediatric sarcomas****Moderator: Bramer & Erol**

14:30-14:40 (7'+3')	Introductory lecture: bone sarcomas: important publications 2020/2021 Funovics
14:40-14:43 (3')	10 years experience with the Xpand non-invasive expandable prosthesis (ID: 268) Gortzak
14:43-14:46 (3')	Epiphysis sparing surgery is a safe and effective treatment for tumors of the distal tibia (ID: 65) Sambri
14:46-14:49 (3')	Limb salvage and complication management after (sub-)total humerus resection in sarcoma patients during early infancy (ID: 164) Röder
14:49-14:52 (3')	Is magnetic intramedullary nail suitable for treating lower limb length discrepancy in patients after bone tumor? (ID: 492) Campanacci
14:52-14:55 (3')	Bone union in frozen autograft and free vascularized fibula combination after intercalary resections in skeletally immature patients (ID:326) Aycan
14:55-15:05 (10')	discussion
15:05-15:08 (3')	Complications of limb salvage surgery in childhood tumors and recommended solutions (ID:336) Sungur
15:08-15:011 (3')	Telescope allograft augmentation technique for a short residual proximal femur in megaprosthesis in children (ID: 238) Staals
15:11-15:014 (3')	Physeal distraction before excision of metaphyseal malignant bone tumors in children (ID: 208) Velez
15:14-15:017 (3')	Growth disturbance in the tibia after expandable distal femur reconstruction in skeletal immature patients (ID: 98) Shehadeh

Room 2

Wednesday, 01 Dec 2021

15:17-15:20 Endoprosthetic replacement of growing patients with bone sarcoma (ID: 302)
(3') **De Vaal**

15:20-15:30 discussion
(10')

15:30-16:00 **Coffee break**
Poster walk & exhibition

16:00 - 17:30 p.m.

Free topics:
Flash session 4: Pevis and spine

Moderator: Sambri & Vyrva

16:00-16:15 Introductory lecture: Spine tumour surgery 2021: what's new?
(12'+3') **Ozaki**

16:15-16:19 Surgical treatment scenario for osteoblastoma of the pelvis: Long-term follow-up results (ID: 477)
(4') **Fiore**

16:19-16:23 Microbiologic profile and risk factors for infection after oncologic sacral resections (ID: 464)
(4') **Karim**

16:23-16:27 Hemipelvectomy with iliosacral resection in patients with sarcoma – clinical outcome and evaluation of a novel classification system (ID: 506)
(4') **Theil**

16:-27-16:31 Complications after pelvic reconstruction: allograft vs custom-made prosthesis (ID: 279)
(4') **Mani**

16:31-16:41 discussion
(10')

16:41-16:45 Functional ambulation and pain outcomes of same-day percutaneous ablation-osteoplasty-reinforcement-internal fixation (AORIF) reconstruction of massive periacetabular osteolytic defects and pathological fractures (ID: 123)
(4') **Lee**

16:45-16:49 New technique of Allograft reconstruction following the acetabulum tumor pelvic resection (ID: 179)
(4') **Vyrva**

16:49-16:53 Surgical options and outcomes for pelvic bone metastasis (ID: 343)
(4') **Duan**

16:53-17:03 discussion
(10')

17:03-17:07 Reconstruction Methods Following Pelvic Resection: A Systematic Review of Options (ID: 298)
(4') **Thomson**

17:07-17:11 Improved virtual surgical planning with 3D-multimodality image for malignant giant pelvic tumors (ID: 340)
(4') **Duan**

17:11-17:15 Does Navigation Assisted Tumour Surgery Improve Margins in Pelvic Chondrosarcomas ? (ID: 286)
(4') **Kurisunkal**

17:15-17:19 Chondrosarcoma of the Pelvis: surgical management options and outcomes of 41 cases (ID: 342)
(4') **Duan, Zhang**

17:15-17:30 discussion
(11')

08:55-09:00 Opening words

09:00 - 10:30 a.m.

Free topics:
Flash session 5: Benign bone tumours
Moderator: Hillmann & Aston

09:00 -09:05 (5')	Do axial giant cell tumours have a worse outcome than those in the extremities (ID: 283) Bollmann
09:05-09:10 (5')	Functional outcome of giant cell tumor of distal radius treated with ulnar translocation and wrist arthrodesis (ID:112) Amorim-Barbosa
09:10-09:15 (5')	Giant cell tumor of bone of the distal radius – Clinical outcomes after intralesional surgery (ID: 289) Van Der Heijden
09:15-09:20 (5')	Total hip arthroplasty in Hereditary Multiple Exostosis patients: Literature review and evaluation of 10 cases (ID: 459) Ostetto
09:20-09:32 (12')	discussion
09:32-09:37 (5')	Evaluation of effectiveness and safety of microwave ablation as a minimally in-vasive treatment alternative for long bone tumors (ID: 261) Nijland
09:37-09:42 (5')	The effects of surgical treatment with chondroblastoma in children and adolescents in open epiphyseal plate of long bones (ID: 347) Lang, Duan
09:42-09:47 (5')	Clinico-pathological analysis, recurrence and surgical treatment in a single series of 58 chondroblastomas (ID: 314) Innocenti
09:47-09:52 (5')	Chondroblastomas in children and adolescents: Revision of 54 cases (ID: 273) Brunet
09:52-10:04 (12')	discussion
10:04-10:09 (5')	Results in the surgical treatment of aneurysmal bone cysts – a retrospective data analysis (ID: 78) Döring
10:09-10:14 (5')	Bone marrow concentrate use in the treatment of bone cysts (ID: 43) Mani
10:14-10:19 (5')	Ischiopubic synchondrosis – Diagnosis and treatment of a challenging tumor or-thopaedic differential diagnosis (ID: 27) Schneider
10:19-10:30 (11')	discussion

10:30-11:00 Coffee break
Poster walk & exhibition

**Free topics:
Flash Session 6: Soft tissue sarcomas 1**
Moderator: Jost & Jones

11:00-11:04 (4)	Combined treatment with pazopanib and paclitaxel is active in superficial angio-sarcoma but not in hepatic/visceral angiosarcoma- Results of a phase II trial of the German Interdisciplinary Sarcoma Group (GISG-06 EVA) (ID: 181) Andreou
11:04-11:08 (4)	The impact of surgical procedures on the outcome after resection of soft tissue sarcoma (ID: 293) Funovics
11:08-11:12 (4)	Complex surgical reconstruction after soft tissue sarcomas resection in children under 10 years: a 20-years' experience of a single center (ID:136) Beltrami
11:12-11:16 (4)	Myxofibrosarcoma: a strategy to achieve consistently wide margins for better local control (ID: 174) Spazzoli
11:16-11:29 (13')	discussion
11:29-11:33 (4)	Unplanned excision of soft tissue sarcomas: a systematic review (ID: 229) Mani
11:33-11:37 (4)	Predictors of high vs low intensity surveillance after soft-tissue sarcoma surgery: A 23-year population-based cohort study in Ontario, Canada (ID: 328) Bozzo
11:37-11:41 (4)	Intraoperative Brachytherapy using flab technique in the treatment of soft tissue sarcomas - mean follow up of 5 years (ID: 48) Dammerer
11:41-11:45 (4)	Prediction of effectiveness of preoperative radiotherapy in soft tissue sarcoma and impact on prognosis (ID: 116) Yoshida
11:45-11:58 (13')	discussion
11:58-12:02 (4)	High efficacy for TNF-Melphalan based isolated limb perfusion in the treatment of locally recurrent high-grade soft tissue sarcoma (ID: 76) Podleksa
12:02-12:06 (4)	Prognostic factors for post-progression survival after trabectedin treatment in patients with advanced soft tissue sarcoma (ID: 234) Iwata
12:06-12:10 (4)	Survival differences for rural and low-income soft tissue sarcoma patients in a country with universal healthcare – A 23-year population-based study (ID: 327) Bozzo
12:10-12:14 (4)	Similar local recurrence rate but worse survival in primary, localized grade 3 myxofibrosarcoma of the extremities (ID: 68) Sambri
12:14-12:18 (4)	Experience of interstitial permanent i(125) brachytherapy for extremity soft tissue sarcomas (ID: 337) Fang, Duan
12:18-12:30 (12')	discussion

12:30-13:30 Lunch

12:30 - 14:30 p.m.

EMSOS board meeting

14:30 - 15:30 p.m.

Liquid biopsy

Moderator: Heitzer & Braig

14:30-14:45 (12'+3')	Current and future perspectives of liquid biopsies in genomics-driven oncology Heitzer
14:45-15:00 (12'+3')	Gene expression profiles correlating with tumor inflammatory response in myxoid liposarcomas, synovial sarcomas and myxofibrosarcomas (ID: 225) Goetz
15:00-15:15 (12'+3')	Aneuploidy and aneuploidy circulating tumor cells in soft-tissue sarcoma patients (ID: 29) Napolitano
15:15-15:30 (12'+3')	Liquid biopsy in myxoid liposarcomas Braig

15:30-16:00 Coffee break
Poster walk & exhibition

16:00 - 17:30 p.m.

Basic sarcoma research: new mouse models, in vitro 3 D sarcoma models

Moderator: Rinner & Banito

16:00-16:15 (12'+3')	Systematic Review of the current status of human sarcoma cell lines Kondo
16:15-16:30 (12'+3')	Patient-derived xenografts to model rare soft tissue sarcomas and design new therapeutic approaches Zaffaroni
16:30-16:45 (12'+3')	Epigenetic heterogeneity and tumor evolution in Ewing sarcoma Tomazou
16:45-17:00 (12'+3')	Genetic and epigenetic mechanism of sarcoma development Banito
17:00-17:15 (12'+3')	Epigenetic features in Clear Cell Sarcoma- Based on MUG Lucifer Rinner
17:15-17:30 (12'+3')	Multi-omics characterization of sarcoma for precision medicine Chudasama

Wednesday, 01 Dec 2021

Room 3

08:55-09:00 Opening words

09:00 - 10:30 a.m.

Nursing, nutritional aspects and pain management**Moderator: Leyerzapf & Eminovic**

09:00-09:10 (7'+3')	AYA's with recurrent bone and soft tissue sarcoma's, three patients with a characteristic clinical course Leyerzapf
09:10-09:20 (7'+3')	Caring for patients with primary malignant bone and soft tissue tumours - a qualitative survey of their need during and after inpatient treatment (ID: 303) Hacker
09:20-09:30 (7'+3')	Challenges in the orthopedic nursing of tumor patients receiving a tumor prosthesis in the lower extremities (ID: 518) Golemac
09:30-09:40 (7'+3')	Nutritional implications for postsurgical woundhealing Prisching
09:40-09:50 (7'+3')	Does chemotherapy treatment affect families/work/school and social relations for patients with bone tumours? An observational study (ID: 378) Verdoliva
09:50-10:20 (25'+5')	Pain management in patients suffering from Musculo-Skeletal Neoplasms – a multidisciplinary approach from the viewpoint of a palliative care unit Hofmann
10:20-10:30 (7'+3')	MOKI (mobile Kinderkrankenpflege) Weiß

10:30-11:00 Coffee break
Poster walk & exhibition

11:00 a.m. - 12:30 p.m.

Communicational skills & shared decision making in oncological cases**Moderator: Fraberger & Andritsch**

11:00-11:30 (25'+5')	Improving communication skills between health professionals and people with cancer Fraberger
11:30-11:45 (12'+3')	Implementation shared decision making in malignant bone cancer surgery Bekkering
11:45-12:00 (12'+3')	Delivering bad news - what are the needs of doctors and patients Andritsch
12:00-12:30 (25'+5')	Changing the view: Patient's perspectives Fink

12:30-13:30 Lunch

Physiotherapy in musculo-skeletal oncology

Moderator: Bekkering & Nimmervoll

13:30-13:40 (7'+3')	The physiotherapy assessment and treatment for the child with tumour: Consensus conference (ID: 379) Venturini
13:40-13:50 (7'+3')	Early physiotherapeutic rehabilitation of children and young adults with bone cancer of the lower extremities (ID: 280) Steinbauer
13:50-14:00 (7'+3')	Functional results after bone sarcomas – should we allow sports? Hobusch
14:00 -14:10 (7'+3')	Prevalence and risk factors for falls in patients treated for lower extremity sarcoma (ID: 237) Furtado
14:10-14:20 (7'+3')	Interdisciplinary rehabilitative issues after bone and soft tissue tumor resection Nimmervoll
14:20-14:30 (7'+3')	Rotationsplasty as a surgical option in lower extremity bone tumours (ID: 331) Bekkering
14:30-14:40 (7'+3')	Rotationsplasty in cancer patients: what is the rehab strategy? (ID: 381) Cotti, Rizzoli
14:40-14:50 (7'+3')	Physical function is reduced and associated to quality of life after limb-sparing surgery due to bone sarcoma (ID: 206) Fernandes
14:50-15:00 (7'+3')	Feasibility of using the patient specific functional score to guide inpatient rehabilitation after surgery for musculoskeletal tumours (ID: 251) Kowalska
15:00-15:10 (7'+3')	Can holistic personalized models of rehabilitation improve survivorship outcomes after treatment for lower extremity sarcomas? A preliminary efficacy study (ID: 247) Furtado
15:10-15:20 (7'+3')	Service evaluation of adult orthopaedic oncology inpatient rehabilitation programme (ID: 254) Matthews, Scanlan
15:20-15:30 (7'+3')	Energy cost and gait biometrics after rotationplasty (ID: 152) Krebbekx
15:30-16:00	Coffee break Poster walk & exhibition

Posterwalk 1

Time: 10:30 - 11:00 a.m.

Bone sarcoma 1

Moderator: Nottrott & Brcic

- ID 360 Characteristics and prognosis of pelvic Ewing sarcoma: a SEER population-based study
Long
- ID 335 Treatment of chondrosarcoma. Prognostic factors and treatment options based on patients' age, localization, size and grade of tumor in a review of 45 cases
Ruckenstuhl
-
- ID 147 A retrospective European Musculoskeletal Oncology Society (EMSOS) study of second primary osteosarcoma after retinoblastoma
Asaftei
- ID 248 Does surgical margin effect the survival rate of osteosarcoma?
Dabak
- ID 504 Evaluation of C-reactive protein levels for prognosis assessment in bone and soft tis-sue tumors - a 13 years retrospective single center study
Consalvo
- ID 507 Interventional procedures in the treatment of bone and soft tissue tumors: a pictoral re-view
Softic
- ID 514 Review of treatment results of bone sarcomas in the department of Orthopedics and Traumatology of Lithuanian Health Science University's Kaunas Clinic's in 2002-2020
Markeviciute
- ID 533 Treatment of local recurrence of osteosarcoma in children
Kobys
- ID 202 Multidrug resistance Protein 1 silencing in osteosarcoma and chondrosarcoma cell lines"
Freund
- ID 49 Secondary superficial high-grade chondrosarcoma of the clavicle: A case report
Takenoshita
- ID 119 Histiocytic sarcoma arising in a femur with a long-standing chronic osteomyelitis.
Medellin Rincon

Pathology, diagnosis & rare lesions

Moderator: Von Kunow & Friesenbichler

- ID 7 An unusual tumour in the thigh: Semimembranosus Calcific Tendonitis
Ozkan, Ozturan
- ID 40 Rhabdomyosarcoma with Fukuyama Congenital Muscular Dystrophy: A Case Report
Hagiwara Y
- ID 111 Brown-Séquard Syndrome by Dorsal Hemangioma of Aggressive Behavior
Amorim-Barbosa T
- ID 127 The value of X-ray, CT-scan, and MRI imaging to determine the malignancy status of a bone lesion: analysis of the results of an online quiz
Gaume
- ID 186 Malignant myoepithelioma of bone and soft tissue
Longhi
- ID 110 Tibial PEComa - An extremely rare case report
Amorim-Barbosa
- ID 8 Rosai-Dorfman disease with bone involvement in children
Ozkan
- ID 34 Bone adamantinoma cases
Protsenko
- ID 55 Core needle biopsy for myxoid soft tissue tumors: a diagnostic challenge?
Han
- ID 218 Image-guided percutaneous biopsy for the diagnosis of musculoskeletal tumors
Ruggieri

Pelvis & sacrum

Moderator: Müller & Sorensen

- ID 154 Hemi-vertebrectomy of L5 in grade 2 Chondrosarcoma: is a single posterior approach with no nerve root sacrifice possible? A case report
Ipponi
- ID 230 Off the rack reconstruction solution with tmars for periacetabular pelvic resections – an experience of 20 cases at a high volume referral centre
Siddiqi
- ID 354 3D-multimodality imaging technique facilitates oncological resection of periacetabular malignancies
Duan
- ID 161 Custom-made pelvic prosthesis, fixed to the sacrum, after internal hemipelvectomy as a limb-salvaging alternative
Pereira
- ID 129 LUMIC solutions in periacetabular pelvic reconstruction problems
Aycan
- ID 281 3-years follow up results after reconstruction of the pelvic ring by the metal-polymer endoprosthesis after I-III types internal hemipelvectomy
Diedkov
- ID 38 Treatment of carcinoma bone metastases using the O-ARM navigation system
Nicolosi
- ID 160 Multifocal Leiomyosarcoma of the thigh. A case report.
Serban
- ID 495 Surgical treatment of impending fractures significantly improves the survival and quality of life of patients with bone metastases from carcinoma
Nicolosi

Posterwalk 2

Time: 15:30 - 16:00 p.m.

Soft tissue sarcoma 1

Moderator: Goedhard & Podleska

- ID 501 Despite education orthopaedic surgeons still perform unplanned resections
Belzarena
- ID 440 Tumor bed complications in patients with soft tissue sarcomas of the extremities and the superficial trunk treated with surgery and Perioperative High Dose Rate Brachy-therapy (PHDRB): clinical and dosimetric analysis
Gomez
- ID 548 Predictive and prognostic factors in synovial sarcoma: retrospective study of 130 cases
Mani
- ID 515 Intraoperative radiotherapy in soft tissue sarcomas. Assessment and monitoring of a historic series
González-Lizán
- ID 555 Definition of the surgical case complexity in the treatment of soft tissue tumors of the extremities and trunk
Fuchs
- ID 524 Effect of negative pressure wound therapy after surgical removal of deep-seated high-malignant soft tissue sarcomas of the extremities and trunk wall – study protocol for a randomized controlled trial
Yilmaz
- ID 498 Development of a scoring system combined clinical, radiological, and histopathological examinations for differential diagnosis between lipoma and atypical lipomatous tumor/well-differentiated liposarcoma
Asano
- ID 554 What are preoperative risk factors for fibrosarcomatous transformation in Dermatofibrosarcoma Protuberans (DFSP)
Houdek

Bone sarcoma 2

Moderator: Viertler & San Julián Aranguren

- ID 442 Reconstruction of resected calcaneus due to osteosarcoma with a free osteocutaneous fibular flap: Case report
Mercun
- ID 513 Ollier disease: Two case reports
Markeviciute
- ID 167 Does bone grafting reduce fracture risk after curettage of atypical cartilaginous tumors?
Janssen
- ID 6 Histological, epidemiological and anatomical analysis of 55 bone tumors of the fibula
Cevik
- ID 463 Curettage versus resection surgery in grade 1 chondrosarcomas
Miranda
- ID 553 The usefulness of extracorporeal circulation in popliteal-based free fillet lower leg musculocutaneous flap after hemipelvectomy
Mani
- ID 520 Does bone grafting reduce fracture risk after curettage of atypical cartilaginous tumors?
Krebbekx
- ID 474 Resection and reconstruction navigated with custom implant a chondrosarcoma of the pelvis. Report of a case
Salgado

New techniques

Moderator: Traub & Van der Geest

- ID 491 Artificial muscle: are we there yet?
Bruschi
- ID 542 A hollow, custom-made prosthesis combined with a vascularized flap and bone graft for skeletal reconstruction after bone tumour resection
Beltrami
- ID 544 What are the resection accuracy and guide fitting errors of patient-specific resection guide using 3D printing for bone tumor resections?
Kim
- ID 422 The use of 3D printing in the treatment of osteolytic bone lesions – a workflow
Weschenfelder
- ID 476 Navigation and surgical guides to measure the patient 3D printed for unicortical resection of metaphyseal tumors of distal femur. Cadaveric validation study
Salgado
- ID 539 Hemipelvectomy with customized surgical guide without navigation
Salgado
- ID 541 Custom-made 3D-printed implants after bone tumor resection in pediatric patients: are new technologies able to improve reconstructive option and results?
Beltrami
- ID 528 Biomechanical evaluation of a patient specific 3D printed hemi pelvis implant used for surgical treatment of pelvic chondrosarcoma: A finite element analysis
Kiapour
- ID 475 Tumor resection with cut guide to measure recurrent distal femur chondrosarcoma
Salgado

Radiology of bone tumours

Moderator: Ranner & Igrec

- ID 552 Unicameral bone cysts of proximal femur in skeletally immature patients: Do radiological parameters, pathological fracture, treatment method and recurrence affect the outcomes?
Aycan
- ID 449 Early response monitoring of neoadjuvant chemotherapy using FDG PET can predict the clinical outcome of extremity osteosarcoma
Kong
- ID 546 High performance and low complications rate of radio-guided biopsies in a reference center in the diagnosis of bone tumors.
Crenn
- ID 556 How can we assess the exposure of sarcoma surgeon?
Fuchs
- ID 502 Incremental direct imaging costs due to non-referring sarcoma patients
Belzarena
- ID 526 The validity of the Birmingham Atypical Cartilage Tumour Imaging Protocol (BACTIP) to predict survival outcomes and guide surgical decision-making
AlAqeel
- ID 499 Midterm MRI follow-up of untreated enchondroma and atypical cartilaginous tumours in the long bones
Deckers
- ID 44 Conservatively managed cartilage tumors of the long bones- A ten year MRI follow up study
Gilg, Dreier
- ID 450 Usefulness of increased 18F-FDG uptake for detecting local recurrence in patients with extremity osteosarcoma treated with surgical resection and endoprosthetic replacement
Kong

Thursday, 02 Dec 2021

09:00 - 10:30 a.m.

Plenary room

Thursday, 02 Dec 2021

Interdisciplinary treatment of metastases

Moderator: Pollock & Baad-Hansen

09:00 - 09:15 (12'+3')	Sarcoma metastasis: How to proceed? Jones
09:15-09:30 (12'+3')	Oligometastases: Should they be treated differently? Dürr
09:30-09:42 (7'+5')	Surgical anatomy, techniques and biomechanical analysis of AORIF percutaneous stabilization of periacetabular osteolytic lesions and biomechanical analysis (ID: 122) Lee
09:42-09:54 (7'+5')	Clinical Outcomes of Patients Treated with Carbon Fiber Plates: An International Study (ID:547) Rijs
09:54-10:06 (7'+5')	Prognostic differences between oligometastatic and polymetastatic osteosarcoma recurrence – A report from the Cooperative Osteosarcoma Study Group (COSS) (ID:137) Bielack
10:06-10:18 (7'+5')	Are Plasma YKL-40 and IL-6 prognostic for survival after surgery for metastatic bone disease of the extremities? (ID: 28) Sorensen
10:18-10:30 (7'+5')	Overall Survival in case of oncologic resection of bone metastasis in thyroid cancer. (ID: 70) Crenn

10:30-11:00 Coffee break
Poster walk & exhibition

11:00 a.m. - 12:30 p.m.

New guidelines and studies in sarcoma

Moderator: Ahmed & Windhager

11:00-11:15 (12'+3')	Which factors are associated with negative surgical margins in soft tissue and bone sarcoma patients? Results from a German-wide cohort study (PROSa-study) (ID: 197) Andreou
11:15-11:30 (12'+3')	Chemotherapy of soft tissue sarcomas: new guidelines Brunello
11:30-11:45 (12'+3')	New studies in sarcoma Kasper
11:45-12:00 (12'+3')	The challenges of Sarcoma patients and how patient advocates & experts together can make extensive changes Gonzato
12:00-12:15 (12'+3')	Giant cell tumor of tendon sheath: new studies Bauer
12:15-12:30 (12'+3')	DNA methylation classifier for sarcomas Kölsche

12:30-13:15 Lunch

13:30 - 14:30 p.m.

Update in the treatment of abdominal sarcomas

Moderator: Hohenberger & Gronchi

13:30-14:00 Standards in the treatment of abdominal and retroperitoneal sarcomas
(25'+5')
Gronchi

14:00-14:30 Battle: RTX for retroperitoneal sarcoma
(10'+10'+10')
Hohenberger (contra) vs. **Haas** (pro)

14:30 - 15:30 p.m.

Limb sparing surgery vs. amputation

Moderator: Capanna & Funovics

14:30-14:45 Isolated limb perfusion (ILP): Why should we use it?
(12'+3')
Tunn

14:45-15:00 Defining depression and anxiety in orthopaedic sarcoma patients (ID: 497)
(12'+3')
Polfer

15:00-15:30 Battle: Limb salvage for sarcomas at the ankle joint?
(10'+10'+10')
Puri (no) vs. **Manfrini** (yes)

15:30-16:00 Coffee break
Poster walk & exhibition

16:00- 16:30 p.m.

Campanacci lecture

Moderator & Introduction: Leithner

16:00-16:30 The future of orthopaedic oncology
Sander Dijkstra

16:30 - 17:30 p.m.

Difficult case discussion & panel hot seat & voting

Moderator: Van de Sande & Bergovec

Plenary room

Thursday, 02 Dec 2021

RTX, carbon & proton therapy**Moderator: Haas & Georg**

09:00-09:15 (12'+3')	Intraoperative radiotherapy of STS Röder
09:15-09:30 (12'+3')	Carbon ion therapy for sacral tumors and SACRO trial Fossati
09:30-09:45 (12'+3')	Carbon ion therapy for osteosarcoma and OSCAR trial Harrabi
09:45-10:00 (12'+3')	Proton therapy for pediatric sarcoma Hug
10:00-10:07 (7')	Activation of efficient DNA repair mechanisms after photon and proton irradiation of human chondrosarcoma cells (ID: 465) Lohberger
10:07-10:14 (7')	Clinical outcome in children and young adults with pelvic rhabdomyosarcoma treated with proton therapy (ID: 151) Peters
10:14-10:21 (7')	Sacral nerve roots and ischial nerve as organs at risk in definitive carbon ion irradiation of sacral sarcoma (ID: 109) Fossati
10:21-10:30 (9')	discussion

10:30-11:00 Coffee break
Poster walk & exhibition

Man vs. machine: deep learning and heavy statistics in sarcoma treatment**Moderator: Plass & Biau**

11:00-11:15 (12'+3')	Machine learning in Pathology Plass
11:15-11:30 (12'+3')	Artificial Intelligence and Radiology: The future? Bischof
11:30-11:40 (7'+3')	Re-excision after R1 resection of soft-tissue of limb and trunk wall sarcomas improves over-all survival for some patients. A national-wide Netsarc study of 2 505 patients study (ID: 216) Gouin
11:40-11:50 (7'+3')	The 10 year results of the fixed-hinge, cemented, Stryker modular endoprosthetic distal femoral tumour system: a multicentric retrospective review of 125 cases (ID: 155) Mattei
11:50-12:00 (7'+3')	Artificial intelligence and chondrosarcoma: an international validation of the Skeletal Oncology Research Group (SORG) survival algorithm (ID: 200) Palmerini
12:00-12:30 (10'+10'+10')	Battle: RTX for all high grade STS: what do modern statistics tell us? Biau (no) vs. Andreou (yes)

10:30-11:00 Lunch

13:30 - 15:30 p.m.

Free topics:
Flash session 7: Interdisciplinary treatment of metastatic disease
Moderator: Papagelopoulos & Campanacci

13:30-13:34 (4')	Early diagnosis of intramedullary femoral bone metastasis using CT axial image (ID: 124) Yonezawa
13:34-13:38 (4')	Surgical treatment of skeletal metastases in proximal tibia (ID: 158) Kilk
13:38-13:42 (4')	Intramedullary nailing for impending or pathologic fracture of the long bone: titanium vs carbon fiber peek nailing (ID: 221) Ruggieri
13:42-13:46 (4')	Service Evaluation of Therapy Management after Proximal Femoral Replacement for Metastatic Bone Disease – A Retrospective Analysis of 10 cases (ID: 257) Vaghela
13:46-13:50 (4')	Long-term outcome and patient related outcome measurements in patients with modular distal femoral and proximal tibial megaprotheses (ID_ 284) Lehner
13:50-14:01 (11')	discussion
14:01-14:05 (4')	The Stanmore METS Distal Femoral Replacement Modular System for primary bone tumours and metastatic disease – a single centre experience (ID: 235) Wigley
14:05-14:09 (4')	Surgical management of metastatic lesions of the proximal femur with pathological fractures using intramedullary nailing or endoprosthesis replacement (ID: 341) Duan & Zhang
14:09-14:13 (4')	Limb-saving treatment of bone metastases in the lower extremity using a modular implant system (ID:285) Omlor
14:13-14:17 (4')	Resections and megaprotheses of the lower limb in the very elder (ID: 185) Scocianti
14:17-14:21 (4')	Validate the results of Pathfx on Turkish patients with skeletal metastasis (ID: 193) Ozturan
14:21-14:32 (11')	discussion
14:32-14:36 (4')	Reconstruction of the humerus using the Comprehensive Segmental Revision System in patients suffering from metastatic bone disease (ID: 195) Jensen
14:36-14:40 (4')	Complications and survivorship of megaprotheses after the resection of bone metastases (ID: 107) Theil
14:40-14:44 (4')	Novel prognostic scale for patients with spinal metastases (ID:82) Valiev
14:44-14:48 (4')	Sarcopenia as Evaluated by Psoas Cross-Sectional Area is a Predictor of Complication Following Treatment of Lower Extremity Metastatic Disease (ID: 299) Ippolito

Room 2

Thursday, 02 Dec 2021

14:48-14:52 (4)	Lumbar Bone Metastases Of Synovial Sarcoma Treated With Stereotactic Body Radiation Therapy and Trabectedin (ID: 258) Goncalves
14:52-15:03 (11)	discussion
15:03-15:07 (4)	Does preventive fixation of bone metastases increase overall survival? Results from a case control study (ID: 145) Boffano
15:07-15:11 (4)	Critical analysis of Mirels score in preventing pathological fracture in long bone metastasis (ID: 275) Crenn
15:11-15:15 (4)	Treatment of Oligometastatic Leiomyosarcoma of the Ankle: Case Report (ID: 243) Goncalves
15:15-15:19 (4)	Local treatment of lung cancer metastases to spine (ID: 177) Kulaga
15:19-15:30 (11)	discussion
15:30-16:00	Coffee break Poster walk & exhibition

09:00 - 10:30 a.m.

Free topics: Flash session 8: From bench to bedside

Moderator: Fuchs & Han

09:00 -09:04 (4)	Four newly discovered USP6 fusion partners (ASAP1, FAT1, SAR1A, TNC) in primary aneurysmal bone cysts (ID: 165) Mavcic
09:04-09:08 (4)	The molecular portrait of TSC1/2- mutated vs TSC1/2-wildtype PEComas (ID: 505) Holzer
09:08-09:12 (4)	Development of metastatic orthotopic xenografts from sarcoma patients as models for therapeutic decision making (ID: 488) Fischer
09:12-09:16 (4)	Genomic landscape and identification of therapeutic targets in Clear Cell Sarcoma (ID: 217) Krzeciesa
09:16-09:20 (4)	The combination of amygdalin with some anti-cancer, anti-parasitic, and anti-inflammatory drugs against MG63, Saos2 and FL cells in vitro (ID: 266) Özturna
09:20-09:32 (12)	discussion
09:32-09:36 (4)	Aggressive osteolytic breast cancer inflammatory tumor microenvironment in the skeletal compartment (ID: 180) Lee
09:36-09:40 (4)	Molecular based diagnostics of sarcoma provides basis for reliable diagnoses, outcome prognostication and correlates with clinical phenotypes (ID:227) Goetz & Schildhaus

09:40-09:44 (4')	Hydrogen-peroxide reduces cell viability and induces apoptosis in chondrosarcoma and osteosarcoma derived cell lines (ID: 287) Omlor
09:44-09:48 (4')	Sunitinib effectively reduces the viability of tumor stromal cells in a giant cell tumor of bone (ID: 224) Mahdal
09:48-09:52 (4')	Effects of mechanical loading on the degradability and mechanical properties of the nanocalcium-deficient hydroxyapatite-multi(amino acid) copolymer composite membrane tube for guided bone regeneration (ID: 344) Duan
09:52-10:04 (12')	discussion
10:04-10:08 (4')	Is percutaneous injection of bone marrow concentrate, demineralized bone matrix and PRF an alternative to Curettage and bone grafting for treating aneurysmal bone cyst? (ID: 493) Pasini
10:08-10:12 (4')	Navigation and 3D Printing in Traumatology and Orthopedics: Comparative cadaveric study of the accuracy obtained by various registration methods (ID: 473) Salgado
10:12-10:16 (4')	Integrated miRNA-mRNA analysis revealing the potential roles of miRNAs in chordomas (ID: 361) Long
10:16-10:20 (4')	Comprehensive Bioinformatic Analysis of Immune Composition and Genes for Survival Prediction in Sarcoma (ID: 77) Chen
10:20-10:30 (10')	discussion
10:30-11:00	Coffee break Poster walk & exhibition

11:00 a.m. - 12:30 p.m.

Free topics: Flash session 9: Complications and quality of life

Moderator: Cirstoiu & Guin

11:00-11:15 (12'+3')	Introductory lecture: Are complications unreported in published sarcoma literature? Campanacci
11:15-11:18 (3')	Infection Revision Megaprosthesis Reconstruction after Bone Tumor Replacement (ID: 171) Vyrva
11:18-11:21 (3')	Total humerus replacement with the MUTARS™ system in patients with bone sarcomas – risk factors for endoprosthetic failure and functional outcome (ID: 194) Schneider
11:21-11:24 (3')	Damage of the Metal-on-Metal coupling in modular tumour endoprostheses (MUTARS®) (ID: 309) Lehner
11:24-11:27 (3')	Expert Opinions about sports activity after Tumorendoprostheses - Do they differ in different parts of the world? (ID: 324) Hobusch
11:27-11:38 (11')	discussion

11:38-11:41 (3')	Intramedullary Stabilized Two-Staged Reimplantation Following Megaprosthesis Infection at the Knee: A Consecutive Series of 25 patients (ID: 295) Ippolito
11:41-11:44 (3')	No improvement of failure rate after resection of primary bone tumors and reconstruction with second-generation mega-prostheses (ID: 306) Holm
11:44-11:47 (3')	Is it possible to predict the factors affecting the process during the treatment of post-musculoskeletal tumor surgery wound problems through negative pressure wound therapy? (ID: 149) Erol
11:47-11:50 (3')	Does the use of intraoperative angiography reduce the incidence of postoperative wound complications in complex ortho-plastic reconstructions? (ID: 190) Ippolito
11:50-11:53 (3')	Adjuvant radiotherapy on skin grafts: experience of a Radiotherapy department (ID: 249) Goncalves
11:53-12:04 (11')	discussion
12:04-12:07 (3')	Soft tissue sarcomas: Wound complications dictate treatment selection - A new approach (ID: 104) Lindeque
12:07-12:10 (3')	Lessons learned from recruitment patterns in the Prophylactic Antibiotic Regimens (PARITY) randomized controlled trial (ID:80) Ghert
12:10-12:13 (3')	The cause of amputation after limb salvage for extremity sarcomas (ID: 146) Erol
12:13-12:16 (3')	Functional outcome and QOL after sarcomas of the foot and ankle region. Is early amputation justified? (ID: 256) Hobusch
12:16-12:19 (3')	Patient's Perception of Changes and Consequences after Tumor Surgery/Treatment. A Qualitative Study in Austrian Patients with musculo-skeletal Malignancies (ID: 203) Trost
12:19-12:30 (11')	discussion
12:30-13:30	Lunch

13:30- 15:30 p.m.

Free topics:
Flash session 10: Bone sarcomas

Moderator: Staals & Baad-Hansen

13:30-13:33 (3')	Follow-up in bone sarcoma care: a cross-sectional European study (ID: 325) Goedhart
13:33-13:36 (3')	Chondrosarcoma of the hand and feet-when to worry? (ID:183) Kask
13:36-13:39 (3')	Bone Cancer in Ancient Egypt: the largest series (ID:42) Isidro-Ilorens

13:39-13:42 (3')	Management of bone and soft-tissue sarcomas during pregnancy: A single cen-tre's 36-year experience (ID: 288) Khattak
13:42-13:45 (3')	What are common pitfalls, radiological features and prognostic factors of paros-teal osteosarcoma? (ID: 333) Sungur
13:45-13:58 (13')	discussion
13:58-14:01 (3')	Prognostic Significance of Texture Analysis of Magnetic Resonance Images in Primary Osteosarcoma (ID: 321) Laux
14:01-14:04 (3')	Does choice of surgical procedure correlate with survival in high-grade central osteosarcoma around the knee? - A report from the Cooperative Osteosarcoma Study Group (COSS) (ID: 166) Bielack
14:04-14:07 (3')	Pathological fracture does not affect prognosis in dedifferentiated chondrosarcoma of the limbs (ID: 67) Sambri
14:07-14:10 (3')	What's an adequate resection margin? Analysis of resection margins in currently sixty-four patients treated for locally aggressive and malignant bone tumors of the extremities (ID: 182) Guder
14:10-14:13 (3')	Extraskeletal Ewing Sarcoma of trunk and extremities: a single Institution retrospective review of 57 patients Karpik
14:13-14:26 (3')	discussion
14:26-14:29 (3')	Clinical differences between central and peripheral ex-osteochondroma chon-drosarcomas (ID: 157) Parry
14:29-14:32 (3')	Predictors for the use of biopsy in sarcoma patients and impact of place of biop-sy – Results from a German-wide cohort study (PROSa-study) (ID: 198) Andreou
14:32-14:35 (3')	Is it safe to observe grade 1 chondrosarcoma? (ID: 226) Grimer
14:35-14:38 (3')	Evaluation of 18 years experience with growing endoprosthesis in children and adolescents with primary malignant bone tumors (ID: 330) Szafanski
14:38-14:41 (3')	The long term outcome of extra-articular resection of the knee joint for malignant bone tu-mors of the distal femur: a comparative retrospective review of 133 cas-es (ID: 173) Le Nail & Biau
14:41-14:55 (14')	discussion
14:55-14:58 (3')	Delay in diagnosis of primary osteosarcoma of bone in children: have we im-proved in the last 15 years and what is the mpact of delay on diagnosis? (ID: 114) Celaire & Pace
14:58-15:01 (3')	Advanced Epithelioid Haemangi endothelioma: fever, pain and pleural effusion predict a wor-se outcome (ID: 91) Napolitano & Vincenzi
15:01-15:04 (3')	The role of time and size of local recurrence in disease specific survival of chondrosarcoma (ID: 159) Grimer

15:04-15:07 (3')	Work ability and leisure time activities in adults with tumor-prostheses in the hip and knee (ID: 133) Fernandes
15:07-15:10 (3')	Comparison of non-vascularized and vascularised fibula grafts in reconstruction of tumor bone defects at the extremities – a single center experience with mid-to longterm results (ID: 205) Krieg
15:10-15:13 (3')	EMSOS study on Desmoplastic Fibroma of Bone - The right setting for the wrong tumor? (ID: 315) Traub
15:13-15:16 (3')	Leiomyosarcoma of Bone: a multicenter study of 35 cases investigating the optimal treatment options (ID 456) Niethard
15:16-15:30 (14')	discussion

15:30-16:00 Coffee break
Poster walk & exhibition

09:00 - 10:30 a.m.

Free topics:
Flash session 11: Soft tissue sarcoma 2

Moderator: Acem & Palmerini

09:00 -09:03 (3')	Effect of Neadjuvant and Adjuvant Radiotherapy on Local Recurrence, Distant Metastasis, and overall survival in extremity soft tissue sarcoma (ID: 435) Smolle
09:03-09:06 (3')	The reconstructive role of dermal substitutes after wide excision of soft tissue sarcomas (ID: 508) Spazzoli
09:06-09:09 (3')	Candidate biomarkers for specific intraoperative near-infrared imaging of soft tissue sarcomas (ID:543) Rijs
09:09-09:12 (3')	Influence of tumour-infiltrating immune cells on local control rate, distant metastasis, and survival in patients with soft tissue sarcoma (ID:433) Szkandera
09:12-09:15 (3')	The surveillance after extremity tumor surgery (SAFETY) trial: International Enrolment and Expansion (ID: 455) SAFETY investigators, Ghert
09:15-09:18 (3')	Assessing the Safety and Utility of Wound VAC Temporization of the Sarcoma or Benign Aggressive Tumor Bed Until Final Margins are Achieved (ID: 523) Lozano-Calderon
09:18-09:30 (12')	discussion
09:30-09:33 (3')	Definition and assessment of quality of sarcoma work-up using a transdisciplinary real-world data platform (ID: 531) Fuchs
09:33-09:36 (3')	Is Moh's Micrographic Surgery Really Superior to Wide Local Excision for DFSP? A Multicenter International Study (ID: 446) Houdek

09:36-09:39 (3')	Haemorrhagic soft-tissue sarcoma: oncological outcomes and prognostic factors for survival (ID: 486) Maes
09:39-09:42 (3')	Free Functional Latissimus Dorsi Reconstruction of the Quadriceps and Ham-strings Following Oncologic Resection of Soft-Tissue Sarcomas of the Thigh (ID: 446) Houdek
09:42-09:45 (3')	Whoops lesions, still there? (ID: 489) Sanz-Pascual, Perez-Munoz
09:45-09:48 (3')	Lack of Radiosensitivity Predicts Poor Oncologic Outcome in Extremity Myxoid Liposarcoma (ID: 444) Houdek
09:48-10:00 (12')	discussion
10:00-10:03 (3')	Outcomes of Soft Tissue Sarcomas in Nonagenarians (ID: 436) Hartley
10:03-10:06 (3')	The role of perioperative chemotherapy in primary high-grade extremity soft tissue sarcoma: A risk-stratified analysis using PERSARC (ID: 516) Acem
10:06-10:09 (3')	Prediction models for survival, local recurrence and metastases of Leiomyosarcomas of trunk wall and extremities: A multicentre study (ID: 427) Elgohary
10:09-10:12 (3')	Restaging after Neoadjuvant Radiotherapy for Soft Tissue Sarcoma (ID: 490) Schultze
10:12-10:15 (3')	Advanced Imaging versus Clinical Signs and Symptoms for Detecting Local Recurrence of Soft Tissue Sarcoma (ID: 430) Cipriano
10:15-10:18 (3')	Does Extrapulmonary Imaging Have a Role in Systemic Surveillance of Soft-Tissue Sarcoma? (ID: 431) Cipriano
10:18-10:30 (12')	discussion

10:30-11:00 Coffee break
Poster walk & exhibition

11:00 a.m. - 12:30 p.m.

**Free topics:
Flash session 12: Bone sarcomas 2**

Moderator: Goedhart & Thaler

11:00-11:15 (4')	Introductory lecture: Salvage of limb salvage in oncological reconstructions of the lower limb with megaprosthesis: how much to push the boundaries? (ID: 537) Innocenti
11:15-11:19 (4')	Effectiveness of cyber knife for oligometastatic lung lesions of musculoskeletal sarcoma (ID: 535) Yasuda
11:19-11:23 (4')	Effect of Metastasectomy in Bone Sarcoma Patients with Secondary Lung Metastases. A Single-Centre Experience (ID: 482) Smolle

11:23-11:27 (4')	Primary and secondary malignant giant cell tumours of bone (ID: 517) Verspoor
11:27 -11:31 (4')	Treatment of giant cell tumor with intralesional surgery and denosumab (ID: 484) Diedkov
11:31-11:35 (4')	Does Size and Percentage of Dedifferentiated Chondrosarcoma Influence Survival? (ID: 527) AlAqeel
11:35-11:50 (15')	discussion
11:50-11:54 (4')	Presence of a Soft-Tissue Mass is Associated with Worse Outcome for Patients with Scapular Chondrosarcoma (ID: 445) Houdek
11:54-11:58 (4')	Outcomes of Distal Radial Endoprostheses: A Single Centre Experience over 15 years (ID: 521) Mahoney
11:58-12:02 (4')	Accuracy of MRI Scans in Predicting Intraarticular Joint Involvement in High-Grade Sarcomas Around the Knee (ID: 545) Kurisunkal
12:02-12:06 (4')	Impact of Insurance Status on Chondrosarcoma Diagnostic Stage: Implications for Detection and Outcomes (ID: 478) Belzarena
12:06-12:10 (4')	Bone & Soft Tissue Cancer in Ancient Egypt. The largest series (ID: 434) Llorens
12:10-12:14 (4')	Bone Scintigraphy in the Surgical Staging of Skeletal Chondrosarcoma (ID: 2) Houdek, Stuart
12:14-12:30 (16')	discussion
12:30-13:30	Lunch

13:30 - 14:30 p.m.

Free topics: Flash session 13: Infections and complications

	Moderator: Lehner & Ghert
13:30-13:34 (4')	The evolution of silver: an overview Friesenbichler
13:34-13:38 (4')	Silver coated (PorAg®) endoprosthesis can be protective against reinfection in the treatment of tumour prostheses infection (ID: 66) Sambri
13:38-13:42 (4')	Retrospective evaluation of silver-coated tumour prostheses in complex joint infection with major bone destruction: about 24 cases with 46 months follow up (ID: 213) Fiorenza
13:42-13:46 (4')	What is the chance for a new endoprosthesis for patients with tumors of the knee joint after two-stage revision? (ID: 52) Mikhailov
13:46-13:50 (4')	Outcomes of Two-Stage Revision for Treating Infected Endoprostheses in Tumour Surgery (ID: 536) Mcculloch
13:50-14:00 (10')	discussion

14:00-14:04 (4')	Treatment of pseudotumors in hip prostheses revision surgery (ID: 219) Ruggieri
14:04-14:08 (4')	A Comparison of the Microbiology Profile for 2-Stage revision Surgery in Periprosthetic Joint Infection of Knee Arthroplasty and Lower Limb Endoprostheses for Tumour Surgery (ID: 534) Mcculloch
14:08-14:12 (4')	What is The Influence of Negative Pressure Wound Therapy on High-Risk Wounds? (ID: 525) AlAqeel
14:12-14:16 (4')	The long term outcomes of limb salvage surgery, single institute experience, review of 210 cases /ID: 462) Shehadeh
14:16-14:20 (4')	Socioeconomic and Preoperative Risk Factors Associated with Limb Salvage versus Amputation for Adult Extremity Bone Sarcomas in Patients with Insurance Coverage (ID: 453) Houdek
14:20-14:30 (10')	discussion

14:30 - 15:30 p.m.

Free topics:**Flash session 14: Bone metastases****Moderator: Houdek & Oliveira**

14:30-14:45 (3')	The importance of awaiting biopsy results in solitary pathological proximal femoral fractures. Do we need to biopsy solitary pathological fractures? Verspoor (ID :483)
14:45-14:48 (3')	Outcomes of Intramedullary Nail Fixation for Metastatic Disease: Impending and Pathologic Fractures (ID: 469) Houdek
14:48-14:51 (3')	Increased risk of venous thromboembolism with aspirin versus low molecular weight heparin for chemoprophylaxis in patients undergoing surgery for metastatic bone disease (ID:472) Lozano-Calderon
14:51-14:54 (3')	Operating procedures for electrochemotherapy in bone metastases: Results from a multicenter prospective study on 102 patients (ID: 494) Focaccia
14:54-14:57 (3')	Evaluation of effectiveness and safety of microwave ablation as a minimally invasive treatment alternative for vertebral tumors (ID:250) Nijland
14:57-15:00 (3')	Long-term results of proximal femoral tumor endoprosthesis replacement after primary and metastatic tumors resection (ID:426) Sokolovsky
15:00-15:10 (10')	discussion
15:10-15:13 (3')	Pelvic metastases from renal cell carcinoma – Results after surgical treatment (ID:496) Scoccianti
15:16-15:19 (3')	Rapid pain relief and functional improvement after local radiofrequency ablation and cementing combined with internal fixation for long bone metastases. A prospective study (ID: 424) Oliveira

15:19-15:22
(3[']) Clinical Outcomes of Patients Treated with Carbon Fiber Nails: An International Study (ID: 510)
Lozano-Calderon

15:22-15:30
(8[']) **discussion**

20:00 p.m. Conference Dinner

Posterwalk 3

Time: 10:30 - 11:00 a.m.

Benign bone tumours

Moderator: Schaap, Bergovec

- ID 163 Long term results of surgical hip dislocation and osteo-articular allograft reconstruction for a chondroblastoma in the femoral head
Medellin
- ID 339 Surgical strategy for benign lesions in proximal femur: internal fixation or endoprosthesis replacement
Duan
- ID 130 Bone grafting for pediatric solitary bone cyst patients
Bayev
- ID 189 Case report of a juxta-articular osteoid osteoma in the femoral neck of a 3-year-old child
Mavcic
- ID 39 Eosinophilic granuloma in adults; two case reports
Aydemir, Ozkan
- ID 118 Giant Periosteal Aneurysmal Bone Cysts. Clinicopathological description of two tumours larger than 20 cms
Medellin
- ID 428 Chondroblastoma: is intralesional curettage with the use of adjuvants a sufficient way of therapy?
Deventer
- ID 468 Outcome of Total Hip Arthroplasty in the Setting of Multiple Hereditary Enchondromatosis
Houdek
- ID 481 Bone Overgrowth and Limb Deformity After Osteochondroma Resection
Belzarena

Biological vs. prosthetic reconstruction

Moderator: Smolle, Mahdal

- ID 334 The use of PRECICE(R) nail in the management of limb length discrepancy following biological reconstruction with frozen hotdog technique
Sungur
- ID 207 Segmental diaphyzeal bone defect reconstruction using vascularized fibula. First sin-gle institution experieence
Repsa
- ID 305 Biological reconstruction after resection of primary malignant bone tumors
Traub
- ID 63 Combined use of intramedullary nails and Harms titanium mesh cages for reconstruction of diaphyseal defects after resection of malignant bone tumors
Mikhailov
- ID 54 Titanium Silk VS Polymeric Tube. As soft tissue reconstruction option in patients with hip replacement after tumor resection
Mikhailov I
- ID 144 Can a partial knee replacement be the solution for arthritis secondary to cementation of osteolytic lesions? A case report
Boffano
- ID 131 Modular fluted tapered stems after tumor resection in the proximal femur
Cretu
- ID 209 Elbow joint reconstruction using MUTARS Distal humerus endoprosthesis
Repsa
- ID 394 Can a modular tapered fluted titanium femoral stem be used in reconstruction following proximal femur tumor resection?
Bergovec

Limb salvage vs. amputation

Moderator: Fiore, Machacek

- ID 33 Endoprosthesis of ankle joint for tumors of the distal tibia
Protsenko
- ID 47 Reconstruction of the ankle after wide resection of distal fibula tumors: case report and review of the literature
Alrumaih
- ID 245 Ewing's sarcoma of the calcaneus treated by limb sparing surgery with calcanectomy and reconstruction with a composite of an allograft and a vascularized osteocutaneous fibula graft
Petersen
- ID 277 Secondary Amputation – A qualitative Study of Quality of Live in Patients after Primary Limb Salvage Surgery and after later Ablative Sarcoma Treatment
Vetchy
- ID 61 Osseointegration prosthetic limbs for rehabilitation of amputees, the outcome in sarcoma patients
Shehadeh
- ID 270 Reconstruction in Bony Tumours of the Foot and Ankle
Titus

Total, growing, custom-made & 3D-Implants

Moderator: Gilg, Staals

- ID 142 3D planning for musculoskeletal tumors: an important instrument for the surgeon and the patient. A preliminary study
Boffano
- ID 346 Total ulna replacement with a 3D printed custom-made prosthesis after en bloc tumor resection
Duan
- ID 120 Evolution in the using of Implantcast growing endoprosthesis - Experience of the War-saw Center - Institute of Mother & Child
Szafrański
- ID 294 Reverse Total Shoulder versus Allograft Prosthetic Composites Following Proximal Humerus Tumor Resection
Amer
- ID 352 Total talar replacement with a novel 3D printed modular prosthesis for tumors
Duan
- ID 323 Custom made 3D printed prosthetic replacement following bone tumor resections of the distal radius - one-center experience
Szostakowski
- ID 121 New technical know how in reconstruction of bone defects in children and youth with primary malignant bone tumors - own experiences
Szafrański
- ID 349 Total femoral prosthesis replacement following resection of femoral malignant tumors
Duan
- ID 310 3D printed patient-specific implants in bone tumour surgery. Are we really innovative? Xenotransplantation in XIX and XX century - a historical prelude to modern bone tumour surgery
Szostakowski

Posterwalk 4

Time: 15:30 - 16:00 p.m.

Complications & management

Moderator: Goldenitsch, Dammerer

- ID 260 First use of Closed Incisional Negative Pressure Wound Therapy in oncological orthopaedic patients
Mani
- ID 271 Quantitative measurements of adaptive bone remodeling around the Cemented Zimmer® Segmental stem after tumor resection arthroplasty using dual-energy X-ray absorptiometry
Holm
- ID 393 Bone heating at tumor endoprosthesis Implantation: a cadaver study
Bergovec
- ID 416 Tumors at the elbow - clinical and oncological results after resection and endoprosthe-sis replacement: preliminary results of a 101 patients from a multicentric study
Bergovec
- ID 487 The amount of bone resected in periacetabular tumor resection impacts on alloprosthet-ic reconstruction survival and function
Bruschi
- ID 421 Preoperative Sarcopenia is Associated with Local Tumor Recurrence but not Wound Complications Following Sacral Tumor Resection
Houdek
- ID 551 Extensor tendon reconstruction and wrapping the tumor endoprosthesis with polypropylene mesh
Alparslan

- ID 471 Allograft Prosthetic Composite Reconstruction Using a Reverse Total Shoulder Arthroplasty for Failed Oncologic Proximal Humerus Reconstruction
Houdek

Survival

Moderator: Sys, Krieg

- ID 72 Late metastasis in Ewing sarcoma
Woltsche
- ID 265 Survival analysis of myxoid liposarcoma: a retrospective evaluation over 20 years
Granados
- ID 357 Development of a general logistic model for disease risk prediction using multiple SNPs
Long
- ID 359 Prognostic nomograms to predict overall survival and cancer-specific survival in patients with pelvic chondrosarcoma
Long
- ID 417 Diagnostics and treatment of sarcomas in the Czech Republic – centralization desperately needed
Adamkova
- ID 148 A case report of rare biological reconstruction technique in a patient with elbow synovial sarcoma
Cirstoiu
- ID 233 Prognostic factors in clear cell sarcoma
Grothues
- ID 199 Clinical outcomes and prognosis of patients undergoing unplanned excisions of malignant soft tissue tumors
Morinaga
- ID 140 Risk factor related to local recurrence of myxofibrosarcoma and undifferentiated pleomorphic sarcoma by the adjacent tissue of the primary lesion
Suzuki
- ID 60 Soft tissue sarcoma abutting the bone, what is the adequate bone margin?
Shehadeh
- ID 3 Comparison of the 7th and 8th version of the AJCC-classification for soft tissue sarcoma
Smolle

Basic science & new technologies

Moderator: Balogh, Boffano

- ID 479 Female Presenting trends in Oncology Orthopedics – An Analysis of the past 5 years
Belzarena
- ID 460 Effects of a combined therapy of bortezomib and ionizing radiation on chondrosarcoma tri-dimensional spheroid cultures
Lohberger
- ID 345 Analyzing the behavior of a porous nano-hydroxyapatite/polyamide 66 (n-HA/PA66) composite for healing of bone defects
Duan
- ID 358 Diosgenin exerts its tumor suppressive function via inhibition of Cdc20 in osteosarcoma cells
Long
- ID 128 Clinical outcomes of neoadjuvant denosumab treatment in giant cell tumor of the pelvis and spine: single institution experience
Tararykova

- ID 338 Giant cell tumor of bone with cartilage matrix: A clinicopathological study of 18 cases
Brcic
- ID 419 Protein c-Myb in osteosarcoma – experimental research and retrospective study
Adamkova

Quality of life

Moderator: Scoccianti, Pérez-Muñoz

- ID 22 Generation Y in Surgery – War for Talent in Times of Talent Shortage
Schneider
- ID 169 Comparative analysis of quality of life in patients with spine metastases before and after surgical treatment
Usmanova
- ID 132 Comparative results of segmental resection versus radical resection in patients with myxofibrosarcoma of the limbs
Iordache
- ID 372 Using means of transport and walking aids after treatment for primary malignant bone tumors in the lower extremity - A mining follow-up of 20 years
Hofer
- ID 214 Early Outcomes in Modular Prostheses of the knee and Physical Recovery
Iacobescu
- ID 73 Recovery of Function after Arthrodesis Reversal to a Hinged TKA
Albert
- ID 83 Ankle Valgus Deformity in Skeletally Immature Hereditary Multiple Exostoses
Aycan
- ID 26 Gorham-Stout Disease – Diagnosis, Treatment and Quality of Life
Schneider
- ID 296 An Orthoplastics Approach to Extremity Reconstruction Following Oncologic Resection Decreases Number of Return Trips to Operating Room
Thomson

Interesting cases 2

Moderator: Jagodic, Scheipl

- ID 550 Tenosynovial giant cell tumor of the knee joint - Rapid progression in diffuse subtype - A case report
Steiner
- ID 480 Rapidly Acquired Valgus Deformity After Resection of Osteochondroma: A Report of Two Cases
Belzarena
- ID 447 Treatment options for aneurysmal bone cyst of the foot: a series of 10 cases
Deventer
- ID 451 Custom-made endoprosthetic replacement of the distal ulna after resection of giant cell tumor of bone: a case-report
Engel
- ID 429 Osteofibrous dysplasia-like Adamantinoma of the tibia progressing into Adamantinoma after 36 years. Considerations regarding the management between careful observation and early aggressive therapy
Exner
- ID 530 Ankle Arthrodesis Nail combined with Locking Compression Plate to stabilize two-level pathologic tibial fractures caused by multiple myeloma
Exner
- ID 423 Melorheostosis – A potential diagnostic pitfall mimicking malignant lesion
Kaufmann-Bühler
- ID 549 Surgical treatment and review of literature
Mani

Friday, 03 Dec 2021

09:00 - 10:30 a.m.

Training Day**Soft tissue sarcoma: From MRI to radiotherapy****Moderator: Funovics & Liegl-Atzwanger**

09:00 - 09:15	Radiology Soft tissue tumors Nöbauer-Huhmann
09:15-09:30	Pathology soft tissue sarcomas Liegl-Atzwanger
09:30-09:45	Surgery 1: Soft tissue sarcoma resection: tips & tricks Bergovec
09:45-10:00	Oncology 1: Soft tissue sarcoma Szkandera
10:00-10:15	Radiotherapy: Current treatment options for soft tissue sarcomas Haas
10:15-10:30	discussion

10:30-11:00 Coffee break

11:00 a.m. - 12:30 p.m.

Training Day**Interactive cases soft tissue - AMSOS meets EMSOS****Moderator: Andreou & Scheipl**

11:00-11:20	Cases Innsbruck Thaler
11:20-11:40	Cases Vienna Hobusch, Nöbauer-Huhmann
11:40-12:00	Cases Graz Friesenbichler
12:00-12:20	MedAustron Georg
12:20-12:30	AMSOS Award Nöbauer-Huhmann

12:30-13:30 Lunch

Friday, 03 Dec 2021

13:30-15:00 p.m.

Training Day Bone sarcoma: From x-ray to resection

Moderator: Antal & Ranner

13:30-13:45	Radiology: Bone tumors Igrec
13:45-14:00	Pathology: Bone tumors Forsyth
14:00-14:15	Oncology 2: Bone sarcoma Brodowicz
14:15-14:30	Surgery 2: Bone sarcoma resections: tips & tricks Ruggieri
14:30-14:45	Bone reconstruction with megaprotheses: tips and tricks Streitbürger
14:45-15:00	discussion

15:00-15:30 Coffee break

15:30-17:00 p.m.

Training Day Interactive cases bone - Central Europe meets EMSOS

Moderator: Bergovec & Dürr

15:30-15:50	Cases Hungary Antal
15:50-16:10	Cases Slovenia Mavcic
16:10-16:30	Cases Czechia Mudry Pazourek
16:30-16:50	Cases Poland Kotrych
16:50-17:00	discussion