



# EMSOS 2025

28•30 APRIL  
PADOVA•ITALY

Team Approach  
& Technology



37<sup>th</sup> Annual Meeting of the  
European Musculo-Skeletal Oncology Society

25<sup>th</sup> EMSOS  
Nurse and Allied Professions Group Meeting

EMSOS President  
**Joanna Szkandera** (Austria)

Congress Presidents  
**Pietro Ruggieri** (Italy) | **Elisa Pala** (Italy)

EMSOS Secretary General: **Andrea Angelini** (Italy)

Scientific Secretariat: **Giulia Trovarelli, Mariachiara Cerchiaro, Alberto Crimi, Elisa Pagliarini** (Italy)

Scientific Organization: **Anna Breda** (Italy)



# MONDAY 28<sup>th</sup> April 2025

## PLENARY ROOM – MANTEGNA ROOM 1<sup>st</sup> floor

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| <u>08.00</u><br>12.00        | <b>TRAINING DAY</b><br><br>Honorary Presidents: <b>Elisa Pala (Padova, IT), Pietro Ruggieri (Padova, IT)</b><br>Moderator: <b>Giulio Maccauro (Roma, IT)</b>   |
| 08.10                        | Imaging of bone and soft tissue tumors<br><b>Giorgio De Conti (Padova, IT)</b>   |
| 08.30                        | Pathology of bone and soft tissue tumors<br><b>Marta Sbaraglia (Padova, IT)</b>  |
| <u>08.50</u><br><u>09.00</u> | Discussion   |
| 09.00                        | Surgical treatment of benign tumors<br><b>Andreas Leithner (Graz, AT)</b>  |
| 09.20                        | Surgical treatment of malignant tumors<br><b>Nicola Fabbri (New York, USA)</b>   |
| 09.40                        | Surgical treatment of metastases<br><b>Giulia Trovarelli (Padova, IT)</b>  |
| 10.00                        | Surgical treatment of soft tissue sarcomas<br><b>Edoardo Botello (Santiago, CI)</b>  |
| <u>10.20</u><br><u>10.35</u> | Discussion   |
| 10.35                        | Systemic treatment of musculoskeletal sarcomas<br><b>Antonella Brunello (Padova, IT)</b>   |
| 11.55                        | Principle of radiotherapy in musculoskeletal tumors<br><b>Marco Krengli (Padova, IT)</b>   |
| 11.15                        | Rehabilitation in orthopedic oncology<br><b>Jannis Papathanasiou (Athens, EL)</b>  |
| <u>11.35</u><br><u>11.50</u> | Discussion   |
| <u>12.00</u><br>14.00        | <b>REGISTRATION</b>  |
| <u>14.00</u><br>14.30        | <b>WELCOME ADDRESS</b><br>President of EMSOS - <b>Joanna Szkandera (Graz, AT)</b><br>Presidents of the Congress – <b>Pietro Ruggieri, Elisa Pala (Padova, IT)</b><br>Secretary General - <b>Andrea Angelini (Padova, IT)</b> |

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| <u>14.30</u> | <b>Session 1: MULTIDISCIPLINARITY IN ORTHOPEDIC ONCOLOGY</b>  |
| 16.00        | Moderators: <b>Anne Gomez-Mascard (Toulouse, FR), J. Benevenia (Newark, USA)</b>  |
| <u>14.30</u> | <b>KEYNOTE LECTURE: MULTIDISCIPLINARITY IN ORTHOPEDIC ONCOLOGY</b>  |
| 14.40        | <b>Reinhard Windhager (Vienna, AT)</b>  |
| 14.40        | ID 5 - Follow-up analysis of lesion characteristics of enchondromas and atypical cartilaginous tumors of the knee and shoulder region on MRI<br><b>Maria Smolle (Graz, AT)</b>  |
| 14.45        | ID 96 - Presence of IDH2 mutation significantly reduces disease-specific survival of patients with chondrosarcoma<br><b>Anne Weidlich (Berlin, DE)</b>  |
| 14.50        | ID 102 - Treatment of low-grade soft tissue sarcoma with preoperative radiotherapy: A single-institution experience<br><b>Hisaki Aiba (Nagoya, JP)</b>  |
| 14.55        | ID 120 - Commonly utilized comorbidity indices do not adequately capture severity of illness in musculoskeletal oncology surgical patients<br><b>Shalin Patel (Houston, TX)</b>   |
| 15.00        | ID 192 - Single nucleus RNA sequencing reveals heterogeneity of response to chemotherapy treatment in osteosarcoma<br><b>Anne Gomez-Mascard (Toulouse, FR)</b>  |
| 15.05        | ID 237 - Isolated Regional Lymph Node Involvement in High-Grade Appendicular Bone Sarcoma is Associated with Poor Survivorship: A National Cohort Database Study<br><b>Angad Bedi (Groningen, NL)</b>                                 |
| 15.10        | ID 253 - What's the outcome of patients treated with vascular by-pass for limb salvage surgery of soft tissue sarcoma?<br><b>Pasquale Tammaro (Firenze, IT)</b>   |
| 15.15        | ID 293 - A Radiological Model for Predicting Histological Response to Preoperative Chemotherapy in Ewing Sarcoma<br><b>Paolo Spinnato (Bologna, IT)</b>   |
| 15.20        | ID 296 - Optimizing Resection Margins in Ewing's - and Osteosarcoma of the Extremities through improved Magnetic Resonance Imaging Assessment - a Retrospective Multicenter Study<br><b>Riccardo Donners (Basel, SZ)</b>              |
| 15.25        | ID 313 - Immune Evasion and NK Cell Infiltration in Pediatric Sarcomas: Implications for Targeted Immunotherapy<br><b>Adrian Ibanez Navarro (La Paz, BL)</b>  |
| 15.30        | ID 315 - A multidisciplinary approach to assessing the impact of local therapy in pediatric bone sarcoma patients and survivors: related adverse events and health-related quality of life<br><b>Leonie G. Tigelaar (Utrecht, NL)</b> |
| <u>15.30</u> | Discussion  |
| 15.45        |   |

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| <u>16:00</u> | Coffee Break |
| 16:30        |              |

- 16.30 **Session 2: BONE METASTASES AND MULTIDISCIPLINARY APPROACH**  
 18.00 Moderators: **Domenico Andrea Campanacci (Firenze, IT)**  
**Carol Morris (New York, USA)**
- 16.30 **KEYNOTE LECTURE: BONE METASTASES AND MULTIDISCIPLINARY APPROACH**  
 16.40 **Michiel van de Sande (Leiden, NL)**
- 16.40 ID 10 - The Proximal Femur Reconstruction or Internal Fixation for Metastases (PERFORM)  
 Randomized Controlled Trial Protocol Development  
**Michelle Ghert (Baltimore, USA)**
- 16.45 ID 53 - Minimally Invasive Management of Metastatic Disease at the Pelvis:  
 A Single Institution Analysis  
**Ashley Castan (New Jersey, USA)**
- 16.50 ID 115 - Complications, implant survival and functional outcome of standard and dual mobility  
 bearing total hip arthroplasty with antiprotrusio cage for pelvic metastasis  
**Ariya Panutut (Bologna, IT)**
- 16.55 ID 132 - Incidence of Pathological Fractures and the Role of Additional Targeted Screening in  
 Early Detection for Patients with Metastatic Bone Disease of the Proximal Humerus  
**Lotte Roelien van der Linden (Groningen, NL)**
- 17.00 ID 152 - Locked Intramedullary Nailing for Humeral Metastases: A Retrospective Analysis of  
 Functional Outcomes  
**Erhan Okay (Boston, USA)**
- 17.05 ID 161 - The morbidity and mortality of simultaneous vs staged intramedullary nail procedures  
 for metastatic bone disease: a retrospective cohort study of 10 years  
**Erica Giles (Houston, USA)**
- 17.10 ID 168 - Is the risk of implant failure after intramedullary nailing and megaprosthesis  
 influenced by the location of proximal intertrochanteric and subtrochanteric femoral metastasis?  
**Konstantina Solou (Bologna, IT)**
- 17.15 ID 290 - What is a wide margin when resecting renal-cell bone metastases?  
**Jaspriit Kaur (Birmingham, UK)**
- 17.20 ID 325 - Do we need a simpler prosthetic system for the reconstruction of the metastatic  
 proximal femur?  
**Michele Boffano (Torino, IT)**
- 17.25 ID 330 - Intramedullary nailing vs modular megaprosthesis in extracapsular metastases of  
 proximal femur: clinical outcomes and complication in a retrospective study  
**Raffaele Vitiello (Roma, IT)**
- 17.30 ID 355 - Which Nail will Fail? Can Surgeons Correctly Predict Which Proximal Femoral  
 Metastatic Lesions can be Successfully Managed with Intramedullary Nail Fixation?  
**Alysia Kemp (Houston, USA)**
- 17.35 Discussion  
 17.45
- 17.45 **KEYNOTE LECTURE: MINIMALLY INVASIVE TREATMENT IN BONE METASTASES**  
 17.55 **Francis Lee (New Haven, USA)**
- 17.55 Discussion  
 18.00

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| <u>18:00</u><br>19:00 | <b>OPENING CEREMONY</b>  |
| <u>18:00</u><br>18:05 | <b>Prof.ssa Elisa Pala, Prof. Pietro Ruggieri</b><br>Welcome Message   |
| <u>18:05</u><br>18:10 | <b>Prof. Pietro Randelli</b><br>President of SIOT (Italian Society of Orthopedic and Traumatology)   |
| <u>18:10</u><br>18:15 | <b>Dr. Andrea Piccioli</b><br>Director of ISS (National Institute of Health)   |
| <u>18:15</u><br>18:35 | <b>Prof. Patrizia Burra</b><br>Vice-Rector for Post Lauream Education, University of Padova<br><b>Lecture: "Notes on history of University of Padova"</b>      |
| <u>18:35</u><br>19:00 | <b>Prof. Rosario Rizzuto</b><br>Professor of General Pathology and Past Rector of University of Padova<br><b>MEDICAL LECTURE: BIOMEDICAL RESEARCH IN ITALY</b> |
| <u>19:30</u><br>20:30 | <b>WELCOME RECEPTION</b>   |

## MONDAY 28<sup>th</sup> April 2025

### GIOTTO BALCONATA

3<sup>rd</sup> floor

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|-----------------------|---|
| <u>10.30</u><br>12.00 | <b>Session 3: COMPREHENSIVE CARE, NURSES &amp; ALLIED PROFESSIONALS</b><br>Moderators: <b>Willem Peter Bekkering (Utrecht, NL), Cristiana Forni (Bologna, IT)</b>   |
| <u>10.30</u><br>10.40 | <b>KEYNOTE LECTURE:</b> COMPREHENSIVE CARE, NURSES & ALLIED PROFESSIONALS<br><b>Willem Peter Bekkering (Utrecht, NL)</b>  |
| 10.40                 | ID 52 - Patient-Reported Outcome Measures (PROMs) following hemipelvectomy: Preliminary results from a tertiary sarcoma center<br><b>Nina Myline Engel (Essen, DE)</b>  |
| 10.45                 | ID 317 - Physical activity in patients after local therapy for pediatric bone sarcoma of the lower extremity: Insights from objective measurement by accelerometry<br><b>Willem Peter Bekkering (Utrecht, NL)</b>                 |
| 10.50                 | ID 143 - Postoperative Opioid Consumption Trends After Oncologic Endoprosthetic Reconstruction of the Lower Limb<br><b>Juan Lizcano (Boston, USA)</b>   |
| 10.55                 | ID 202 - Evaluation of fatigue, quality of life and functional ability in patients with bone and soft tissue sarcomas undergoing chemotherapy treatment.<br>An observational study<br><b>Paola Coluccino (Bologna, IT)</b>        |
| 11.00                 | ID 217 - Early recovery of ambulation after lower limb resection and reconstruction surgery for musculoskeletal cancer<br><b>Mattia Morri (Bologna, IT)</b>   |
| 11.05                 | ID 303 - Monitoring Distress in Hospitalized Patients: A Retrospective Study in the Orthopedic Oncology Department of the Rizzoli Orthopedic Institute.<br><b>Cristiana Forni (Bologna, IT)</b>                                   |
| 11.10                 | ID 321 - The Impact of Proximal Fibula Resection on Foot and Ankle Biomechanics: A Radiological and Pedobarographic Evaluation<br><b>Berkay Dogan (Istanbul, TU)</b>  |
| 11.15                 | ID 104 - The Rehabilitative care management in patients with osteosarcoma in developmental age<br><b>Paola Imazio (Torino, IT)</b>  |
| 11.20                 | ID 332 - Functional outcomes after local therapy for pediatric bone sarcoma of the lower extremity: Insights into satisfaction with participation from a nationwide cohort<br><b>Leonie Tigelaar (Utrecht, NL)</b>                |
| 11.25                 | ID 336 - Evaluation of shared decision-making in routine care for primary malignant bone tumor surgery around the knee in children: A qualitative study of patient and parents' perspectives.<br><b>Kiki Blom (Amsterdam, NL)</b> |
| 11.30                 | ID 367 - The role of nurse coordinators/Case Manager performance in musculoskeletal oncology.<br><b>Marina Bocchese (Padova, IT)</b>  |
| 11.35                 | ID 368 - Prone position nursing protocol for the prevention of intraoperative complications in spine surgery for oncologic and degenerative disease<br><b>Anika Penko (Padova, IT)</b>  |
| <u>11.35</u><br>12.00 | Discussion  |

12.30            **EMSOS Board meeting**  
14.00            DONATELLO ROOM (Ground floor)

**GIOTTO BALCONATA**  
3<sup>rd</sup> floor

16.00            Coffee Break  
16.30

16.30            **Session 4: FREE PAPERS - PROSTHESES AND COMPLICATIONS**  
18.00            Moderators: **Dimosthenis Andreou (Muenster, DE), Oleg Vyrva (Kharkiv, UA)**

16.30            **KEYNOTE LECTURE: PROSTHESES AND COMPLICATIONS**  
16.40            **Nicola Fabbri (New York, USA)**

16.40            ID 17- Proximal Humeral Endoprosthetic Reconstruction for Tumor Defects: Clinical Outcomes of 165 patients From The MUTARS Orthopedic Registry Europe (MORE)  
**Richard Evenhuis (Leiden, NL)**

16.45            ID 54 - Arthrodesis to Avoid Amputation in Patients with Massive Bone Loss due to Infection at the Knee: A Single Institution Review  
**Ashley Castan (New Jersey, USA)**

16.50            ID 78 - Can we lower the risk of implant failure for metastatic bone disease of the proximal femur by using endoprostheses?  
**Michala Skovlund Sørensen (Copenhagen, DK)**

16.55            ID 82 - Allograft Prosthesis Composites For Proximal Femur Replacement In Pediatric Patients With Bone Sarcomas  
**Giulia Puccetti (Bologna, IT)**

17.00            ID 144 - Is DAIR-plus an effective procedure in periprosthetic joint infections in knee megaprotheses?  
**Guido Scoccianti (Firenze, IT)**

17.05            ID 222 - What Are the Mechanisms of Failure, Survival and Function of Total Femoral Replacement for Oncological Indications?  
**Weifeng Liu (Beijing, CN)**

17.10            ID 234 - Treatment outcomes in patients undergoing proximal femoral resection arthroplasty for tumors of the musculoskeletal system  
**Abdallah Abdel Jabar (Samsun, TU)**

17.15            ID 240 - Preliminary Results of a New Generation Modular Proximal Femoral Resection Prosthesis Products for the Treatment of Proximal Femoral Defects  
**Emre Tepedelenlioğlu (Ankara, TU)**

17.20            ID 292 - The prognosis and treatment of Pathological Fracture of Proximal Femur in Sarcoma: A single center retrospective study  
**Koichi Okajima (Birmingham, UK)**

17.25            Discussion  
17.45

## TUESDAY 29<sup>th</sup> April 2025

### PLENARY ROOM – MANTEGNA ROOM 1<sup>st</sup> floor

- 08.00 **Session 5: ROBOTICS & NAVIGATION**  
09.00 Moderators: *Will Aston (London, UK), Arne Streitberger (Essen, DE)*
- 08.00 **KEYNOTE LECTURE: ROBOTICS & NAVIGATION**  
08.10 **Davide Maria Donati (Bologna, IT)**
- 08.10 ID 108 - What to choose in bone tumor resections? Patient specific instrumentation versus surgical navigation  
**Alessandro Bruschi (Bologna, IT)**
- 08.15 ID 134 - Use of Augmented Reality-Assisted Intraoperative Guidance As A Tool For Precision Placement Of 3D-Printed Implants. Experimental Study  
**Javier Orozco Martínez (Madrid, ES)**
- 08.20 ID 156 - 3D virtual reality simulation for musculoskeletal tumors: reconstruction and simulated surgery. A preliminary 38 case study  
**Juan Pablo Zumárraga (Quito, EC)**
- 18.25 ID 180 - Long-term outcomes of computer-navigation assisted resection for primary pelvic Sarcomas  
**Zhuoyu Li (Beijing, CN)**
- 08.30 ID 211 - Augmented reality as a navigation tool in orthopedic oncology surgery  
**Marta Bortoli (Bologna, IT)**
- 08.35 ID 262 - Accuracy and Clinical Outcomes of Treating Osteoid Osteoma Using a Virtual Trajectory Aiming Guide Technique in a Hybrid Operating Room  
**Noam Olshinka (Hadassah, IL)**
- 08.40 ID 307 - Navigation-assisted surgery improve bony margin resection in pelvic and sacral Sarcoma  
**Piya Kiatisevi (Chiang Mai, TH)**
- 08.45 ID 366 - The use of navigation vs custom-made saw jigs in computer-assisted pelvic resection and reconstruction. What is better?  
**Maria Chiara Cerchiaro (Padova, IT)**
- 08.45 Discussion  
09.00
- 09.00 **Session 6: 3D PRINTING TECHNOLOGY**  
10.30 Moderators: *Daniel Kotrych (Szczecin, PL), Francis Hornicek (Miami, USA)*
- 09.00 **KEYNOTE LECTURE: 3D PRINTING TECHNOLOGY**  
09.10 **Lee Jeys (Birmingham, UK)**
- 09.10 ID 22 - Comparison of tendon attachment to 3D printed Ti6Al4V implant versus Trevira® implant: A paired experimental animal study  
**Sarah Freund (Aarhus, DK)**
- 09.15 ID 28 - Innovative AR-guided system for precise placement of 3D-printed guides in Musculoskeletal Oncology  
**Tanya Fernández-Fernández (Madrid, ES)**



- 09.20 ID 38 - The midterm outcome of custom mad and 3D printed implant for juxta-articular bone tumors reconstruction  
**Ahmad Shehadeh (Amman, JO)**
- 09.25 ID 88 - Crio2AR: Effectiveness of Preoperative Planning with Augmented Reality and 3D Printing in Cryotherapy for the Treatment of Giant Cell Bone Tumors  
**Antonio D'Arienzo (Pisa, IT)**
- 09.30 ID 117 - Distal Tibia Endoprosthesis Reconstruction after Resection of Aggressive Bone Tumors: Is it a Reliable Treatment Option?  
**Nor Faissal Yasin (Kuala Lumpur, MY)**
- 09.35 ID 153 - 3D-printing and virtual surgery in preoperative planning and surgical management of soft tissue sarcoma  
**Juan Pablo Zumárraga (Quito, EC)**
- 9.40 Discussion  
9.50
- 09.50 ID 185 - Outcome of 3D-printed hemiprostheses after resection of bone sarcomas of the upper extremity – a case series  
**Bosse Rüberg (Essen, DE)**
- 09.55 ID 212 - Use of 3D Printed PSI for Biplanar Osteotomies in Bone Tumor Resection and Allograft Shaping in Children  
**Lizz van der Heijden (Leiden, NL)**
- 10.00 ID 272 - Custom-made Scapular Reconstructions after Resections for Primary Tumors. Which Prosthetic Design in Different Clinical Scenario?  
**Roberto Scanferla (Firenze, IT)**
- 10.05 ID 323 - Radiological and Clinical Evaluation of 3D-Printed Porous Collars in Resection Prosthesis for Hip and Knee: Preliminary Data  
**Nicola Salducca (Roma, IT)**
- 10.10 ID 353 - High Infection Rates in 3D-Printed Implant Reconstructions for Pelvic Sarcomas: A Call for Improved Strategies  
**Schubert Thomas (Brussels, BE)**
- 10.15 ID 359 - Three-Dimensionally Printed Custom-Made Prosthetic Reconstructions in Atypical Sites: Indications and Results in a Retrospective Study of 16 Cases  
**Giulia Trovarelli (Padova, IT)**
- 10.20 Discussion  
10.30

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| <u>10:30</u><br>11:00 | Coffee Break |
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| <u>11.00</u><br>11.30 | <p><b>MARIO MERCURI LECTURE</b><br/>Presenters: <i>Pietro Ruggieri (Padova, IT), Elisa Pala (Padova, IT)</i></p> <p>Improving biocompatibility in future development of personalized surgery in the treatment of advanced bone tumors<br/><b>Daniel Kotrych (Szczecin, PL)</b></p> |
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| <u>11.30</u><br>13.00 | <b>Session 7: PELVIC, COMPLEX AND ATYPICAL RECONSTRUCTIONS</b><br><i>Moderators: Pietro Ruggieri (Padova, IT), Eduardo Ortiz-Cruz (Madrid, ES)</i>  |
| <u>11.30</u><br>11.40 | <b>KEYNOTE LECTURE: PELVIC, COMPLEX AND ATYPICAL RECONSTRUCTIONS</b><br><b>Panayiotis Papagelopoulos (Athens, EL)</b>   |
| 11.40                 | ID 49 - Impact of Surgical Advancements and Treatment Paradigms on Survival Outcomes in Pelvic Bone Sarcomas: A Comparative Analysis of Modern and Historical Cohorts<br><b>Minna Laitinen (Helsinki, FI)</b>   |
| 11.45                 | ID 84 - Periacetabular reconstruction with Allograft and preservation of the femoral head in Pediatric Patients with Bone Sarcomas: Impact of the resection type<br><b>Giulia Puccetti (Bologna, IT)</b>  |
| 11.50                 | ID 105 - Evaluating center of rotation, anteversion and inclination shifts after periacetabular tumor resection and reconstruction with the LUMiC prosthesis<br><b>Julia F. Van der Geest (Leiden, NL)</b>  |
| 11.55                 | ID 145 - Is 'closing the ring' better in pelvic reconstruction following excision of pelvic tumors: Systematic Review<br><b>Tsuyoshi Mizuma (Melbourne, AS)</b>   |
| 12.00                 | ID 223 - Mid-long term results of surgical treatment for primary malignant pelvic bone tumors<br><b>Weifeng Liu (Beijing, CN)</b>   |
| <u>12.05</u><br>12.15 | Discussion  |
| 12.15                 | ID 250 - High complication rate and poor prognosis of radiation-associated bone sarcomas in the Pelvis: A single center retrospective study<br><b>Koichi Okajima (Birmingham, UK)</b>   |
| 12.20                 | ID 267 - Outcome of sarcoma of pelvis in children<br><b>Jose Ignacio Albergo (Buenos Aires, AR)</b>   |
| 12.25                 | ID 270 - Periacetabular Resections for Primary and Secondary Bone Tumors: is there still a role for Massive Allograft Reconstructions<br><b>Roberto Scanferla (Firenze, IT)</b>   |
| 12.30                 | ID 352 - A Prospective Study of the IlluminOss Photodynamic Nail System for Pelvic Stabilization of Impending and Actual Fractures from Metastatic Bone Disease, Multiple Myeloma, and Primary Bone Lymphoma<br><b>Santiago Lozano-Calderon (Boston, USA)</b> |
| 12.35                 | ID 354 - The impact of pelvic bone resection and reconstruction on pelvic floors <sup>1</sup> , urinary tract's and colorectal's function<br><b>Edoardo Ipponi (Pisa, IT)</b>   |
| <u>12.40</u><br>12.50 | Discussion  |
| <u>13.00</u><br>14.00 | Buffet Lunch  |

- Session 8: MEGAPROSTHETIC RECONSTRUCTIONS**  
Moderators: **Vasileios Kontogeorgakos (Athens, EL), Carol Morris (New York, USA)**
- 14.00**  
**14.10** **KEYNOTE LECTURE: MEGAPROSTHETIC RECONSTRUCTIONS**  
**Jendrik Hardes (Essen, DE)**
- 14.10 ID 16 - Evaluating PE, PEEK, and MoM locking-mechanism survival in MUTARS knee reconstructions for oncological indications: insights from the MUTARS Orthopedic Registry Europe (MORE)  
**Richard Evenhuis (Leiden, NL)**
- 14.15 ID 75 - Outcome of composite proximal tibia and distal femur endo prosthetic reconstruction in oncology patients.  
**Muhammad Riaz (Birmingham, UK)**
- 14.20 ID 135 - Evaluation of Zimmer segmental Knee megaprotheses: Patient survival, Surgical Outcomes and Functional outcome.  
**Christina Enciso Holm (Copenhagen, DK)**
- 14.25 ID 150 - A Novel Technique for Preserving the Extensor Mechanism in Patients Undergoing Proximal Tibia Tumor Resection and Prosthetic Reconstruction  
**Fevzi Saglam (Sakarya, TU)**
- 14.30 ID 182 - Proximal Tibial Hemiarthroplasty Reconstruction in Skeletally Immature Patients with Primary Bone Sarcomas: Mid-term Follow-up of 102 Patients  
**Zhuoyu Li (Beijing, CN)**
- 14.35 ID 221 - The clinical outcomes and prognostic factors of joint-preserving endoprosthesis reconstruction for primary malignant bone tumors about the knee  
**Weifeng Liu (Beijing, CN)**
- 14.40**  
**14.50** Discussion
- 14.50 ID 229 - EMSOS Study: Total Femur Replacement: Functional Outcome, Clinical Results and Gait Analysis - Interim Results  
**Marisa Valentini (Graz, AT)**
- 14.55 ID 251 - Reconstruction of the proximal humerus using an inverse tumor prosthesis  
**Anna Maria Rachbauer (Muenster, DE)**
- 15.00 ID 329 - Functional Outcomes and Shoulder Instability in Reconstruction of Proximal Humerus Metastases  
**Raffaele Vitiello (Roma, IT)**
- 15.05 ID 331 - Cemented vs uncemented megaprotheses in proximal femur metastases: a multicentric comparative study  
**Raffaele Vitiello (Roma, IT)**
- 15.10 ID 335 - What are the complications and reconstruction Survival of distal femur expandable prostheses in children with primary bone tumors?  
**César Chacón (Bologna, IT)**
- 15.15 ID 365 - Modular reverse total shoulder arthroplasty (RTSA) after tumor resection: results of 59 patients treated in a single center  
**Giulia Trovarelli (Padova, IT)**
- 15.20**  
**15.30** Discussion

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| <b>15:30</b> | Coffee Break |
| <b>16:00</b> |              |

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| <u>16.00</u> | <b>PRESIDENTIAL LECTURE</b>  |
| 16.30        | Presenters: <i>Elisa Pala (Padova, IT), Pietro Ruggieri (Padova, IT)</i><br>Tracing the Evolution of Drug Therapies for Soft Tissue Sarcoma: A Journey Through Medical Failures and Breakthroughs<br><b>Joanna Szkandera (Graz, AT)</b>  |
| <u>16.30</u> | <b>Session 9: BIOLOGIC RECONSTRUCTION: WHEN AND HOW</b>  |
| 17.30        | Moderators: <i>Fabrice Fiorenza (Limoges, FR), Valerae O. Lewis (Houston, USA)</i>   |
| <u>16.30</u> | <b>KEYNOTE LECTURE: BIOLOGIC RECONSTRUCTION: WHEN AND HOW</b>  |
| 16.40        | <b>Luis Aponte-Tinao (Buenos Aires, AR)</b>  |
| 16.40        | ID 107 - Proximal humerus reconstruction with pasteurized osteo-articular autologous bone Graft<br><b>Adel Refaat Ahmed (Alexandria, EG)</b>   |
| 16.45        | ID 154 - Distal femur pedicle frozen autograft reconstruction for malignant bone tumors<br><b>Juan Pablo Zumárraga (Quito, EC)</b>   |
| 16.50        | ID 157 - Comparison of Medial Vs. Central Vascularized Fibula Autograft Techniques In Femoral Reconstruction: A Retrospective Analysis Of Complications And Outcomes<br><b>Vanina Ramacci (Bologna, IT)</b>  |
| 16.55        | ID 170 - Biologic Intercalary reconstruction after resection of a bone tumor in the lower limb, about 96 cases: what's best for children and adolescent: Allograft alone, Vascularized fibula alone, allograft and vascularized fibula or induced membrane? An Update<br><b>Mascard Eric (Paris, FR)</b> |
| 17.00        | ID 181 - Comparison of Survival, Function and Complication Between Intercalary Frozen Autograft Versus Massive Allograft Reconstruction After Malignant Bone Tumors Resection<br><b>Zhuoyu Li (Beijing, CN)</b>  |
| 17.05        | ID 201 - Does intraoperative surgical navigation improve consolidation in intercalary femur allograft reconstructions<br><b>Luis Aponte-Tinao (Buenos Aires, AR)</b>   |
| 17.10        | ID 285 - Outcomes of Hemicortical (Shark Bite) Resections in Extremity Sarcomas.<br><b>Muhammad Riaz (Birmingham, UK)</b>  |
| 17.15        | ID 358 - Proximal tibia reconstruction with osteoarticular allografts – a retrospective mono institutional review over a 30-year span<br><b>Nicola Seoni (Bologna, IT)</b>   |
| <u>17.20</u> | Discussion   |
| 17.30        |  |
| <u>17.30</u> | <b>Session 10: INFECTION AND ROLE OF ORTHOPLASTY</b>   |
| 19.00        | Moderators: <i>Walid Ebeid (Giza, EG), Cesare Tiengo (Padova, IT)</i>  |
| <u>17.30</u> | <b>KEYNOTE LECTURE: INFECTION AND ROLE OF ORTHOPLASTY</b>  |
| 17.40        | <b>Andrea Angelini (Padova, IT)</b>  |
| 17.40        | ID 6 - Changes in Clinical Practice Following Publication of the Prophylactic Antibiotic Regimens In Tumor Surgery (PARITY) Randomized Controlled Trial<br><b>Samir Sabharwal (Cincinnati, USA)</b>  |
| 17.45        | ID 8 - The burden of Surgical Site infections with pathogens presumably resistant to perioperative prophylaxis in orthopedic tumor surgery: Secondary analysis of the PARITY trial<br><b>Sabine Kuster (Baltimore, CA)</b>   |

- 17.50 ID 15 - The effect of prophylaxis type on periprosthetic infection in patients with reconstruction with modular endoprosthesis  
**Mustafa Onur Karaca (Ankara, TU)**
- 17.55 ID 61 - Comparative Effectiveness of Silver-Coated Implants in Periprosthetic Infection Prevention: A Systematic Review and Meta-Analysis  
**Halil Bulut (Istanbul, TU)**
- 18.00 ID 92 - Pre-biopsy Inflammatory Markers for Predicting Prosthetic Joint Infection in Patients with Osteosarcoma  
**Mustafa Onur Karaca (Ankara, TU)**
- 18.05 ID 141 - What Is the Diagnostic Performance and Accuracy of Serum Inflammatory Biomarkers and Synovial Fluid Analysis in Megaprosthesis Periprosthetic Joint Infections?  
**Marcos Gonzales (Boston, USA)**
- 18.10 Discussion  
18.15
- 18.15 ID 214 - Postoperative infection rates in patients with osseous allograft treatment: A retrospective analysis  
**Scheurer Fabrice (Zurich, SW)**
- 18.20 ID 295 - Prosthetic joint infection of endoprostheses during chemotherapy  
**Memoona Zahoor (Birmingham, UK)**
- 18.25 ID 326 - Wound healing disorders and deep infections after soft tissue sarcoma resection of the lower extremity  
**Markus Hanna (Vienna, AT)**
- 18.30 ID 340 - Early outcomes of 1.5 stage revision of femoral endoprosthesis replacements for the management of infection  
**Jasprit Kaur (Birmingham, UK)**
- 18.35 ID 347 - Outcomes of wound healing with a topical skin adhesive after tumor Resection  
**Lee Zuckerman (Los Angeles, USA)**
- 18.40 ID 348 - Five-year follow-up on wound VAC temporization strategy pending final negative margin achievement in myxofibrosarcoma  
**Joseph J. Connolly (Boston, USA)**
- 18.45 Discussion  
18.50
- 18.50 **KEYNOTE LECTURE:** The Prophylactic Antibiotic Regimens in Tumor Surgery  
19.00 (PARITY). International Randomized Controlled Trial  
**Michelle Ghert (Baltimore, CA)**

20.00

**SOCIAL DINNER**

## TUESDAY 29<sup>th</sup> April 2025

### GIOTTO BALCONATA 3<sup>rd</sup> floor

- 08.00  
09.00 **Session 11: NEW STRATEGIES IN BENIGN TUMORS**  
*Moderators: Ivan Bohacek (Zagreb, HR), Costantino Errani (Bologna, IT)*
- 08.00  
08.10 **KEYNOTE LECTURE: NEW STRATEGIES IN BENIGN TUMORS**  
**Rob Pollock (London, UK)**
- 08.10 ID 146 - Radiographic outcomes and recurrence rates of pediatric patients treated with calcium sulfate / calcium phosphate bone substitute for benign bone tumors  
**Maralexa Martinez-Valcarcel (Puerto Rico)**
- 08.15 ID 238 - Is it still suitable to perform joint preserving scraping surgery for patients with giant cell tumors of the knee joint combined with pathological fractures?  
**Daoyang Fan (Beijing, CN)**
- 08.20 ID 264 - Fixation with carbon fiber plates after curettage in benign locally aggressive bone tumors: clinical and radiographic outcomes  
**Edoardo Ipponi (Pisa, IT)**
- 08.25 ID 265 - Adjuvant cryosurgery therapy for Giant Cell Tumor of Bone around the knee – 129 GCTB treated by open curettage and adjuvant cryosurgery  
**Ron Batash (Askelon, IL)**
- 08.30 ID 284 - Results of joint-preserving treatment of giant cell tumors of the bone on the proximal humerus  
**Felix Winden (Munich, DE)**
- 08.35 ID 299 - The evolution of Denosumab use for GCTB in time  
**Mylène Duivenvoorden (Amsterdam, NL)**
- 08.40  
09.00 Discussion
- 09.00  
10.30 **Session 12: WHAT'S NEW IN SOFT TISSUE SARCOMAS**  
*Moderators: Maya Niethard (Regensburg, DE), José Casanova (Coimbra, PT)*
- 09.00  
09.10 **KEYNOTE LECTURE: WHAT'S NEW IN SOFT TISSUE SARCOMAS**  
**Domenico Andrea Campanacci (Firenze, IT)**
- 09.10 ID 9 - The Surveillance After Extremity Tumor Surgery (SAFETY) International Multi-Center Randomized Controlled Trial: Enrolment Complete  
**Michelle Ghert (Baltimore, USA)**
- 09.15 ID 26 - Prospective study of infiltration of sarcoma edema tail: predisposing factors and clinical relevance. Is edema tail contaminated tissue?  
**Irene Barrientos-Ruiz (Madrid, ES)**
- 09.20 ID 30 - Frequency in grading changes of soft tissue sarcomas upon local recurrence or distant metastasis  
**Maria Anna Smolle (Graz, AT)**
- 09.25 ID 37 - Clear surgical margins as a prognostic indicator for disease recurrence, with no impact on survival rates in patients with myxofibrosarcoma  
**Michal Mahdal (Brno, CZ)**

- 09.30 ID 56 - Comparing high-grade non-rhabdomyosarcoma soft tissue sarcoma in adult and pediatric populations  
**Mikaela Sullivan (Rochester, USA)**
- 09.35 ID 109 - Clinical and oncological outcome in patients with Malignant Peripheral Nerve Sheath Tumors (MPNST): A single center retrospective study  
**Ioannis Trikoupis (Athens, EL)**
- 09.40 Discussion  
09.50
- 09.50 ID 124 - Wound complications and associated factors following surgery for soft tissue sarcomas of the thigh: Retrospective analysis of 45 cases  
**Mustafa Onur Karaca (Ankara, TU)**
- 09.55 ID 128 - The Relationship Between Tru-cut Biopsy Needle Size And Diagnosis Rates of Soft Tissue Sarcomas: Double-Blind Randomized Controlled Study  
**Başak Sinem Sezgin (Ankara, TU)**
- 10.00 ID 245 - Controversies in the management of soft tissue sarcoma: the top recommendations from the Conference on Challenges in Sarcoma (CCS) 2024  
**Dimosthenis Andreou (Essen, DE)**
- 10.05 ID 254 - Relationship between the distance from the tumor to major blood vessels and prognosis of deep soft tissue sarcomas  
**Tadashi Iwai (Osaka, JP)**
- 10.10 ID 282 - Comparison of Five-Year Oncological Outcomes Between Deep and Superficial Soft Tissue Sarcomas: A Retrospective Analysis  
**Halil Bulut (Istanbul, TU)**
- 10.15 ID 291 - Distinct patterns of metastatic spread in leiomyosarcoma: A comparative analysis of truncal and extremity tumors  
**Aaron Gazendam (Toronto, CA)**
- 10.20 Discussion  
10.30

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| <u>10:30</u><br><u>11:00</u> | Coffee Break |
|------------------------------|--------------|

11.30 **Session 13: SOFT TISSUE TUMORS AND INOPERABLE TUMORS: WHAT'S NEW**  
13.00 Moderators: **Stefano Bastoni (Milano, IT), Ramses Forsyth (Brussels, BE)**

11.30 **KEYNOTE LECTURE: SOFT TISSUE TUMORS AND INOPERABLE TUMORS:**  
11.40 **WHAT'S NEW**  
**Thomas Baad-Hansen (Aarhus, DK)**

11.40 ID 48 - Effect on survival after implementation of Danish cancer patient pathways in deep-seated high-grade soft tissue sarcomas in the extremities and trunk wall: A retrospective observational study  
**Andrea Thorn (Copenhagen, DN)**

11.45 ID 57 - Outcomes of pediatric non-rhabdomyosarcoma soft-tissue sarcomas of the Extremities  
**Mikaela Sullivan (Rochester, USA)**

11.50 ID 91 - Synovially-based lesions of the knee...how often are they malignant?  
**Charles Baird (Birmingham, UK)**

- 11.55 ID 189 - Isolated Limb Perfusion Can Deter Amputation Indication in Initially Non-Salvageable Sarcomas  
**Jan Lesenský (Praga, CZ)**
- 12.00 ID 198 - Safety and efficacy of spot-scanning proton therapy for inoperable desmoid tumors  
**Maciej Pelak (Salzburg, AT)**
- 12.05 ID 204 - Risk Factors for Postoperative Fractures After Soft-Tissue Sarcoma (STS) Resection Of The Lower Extremities  
**Lehner Burkhard (Heidelberg, DE)**
- 12.10 Discussion  
12.20
- 12.20 ID 208 - Evaluating Outcomes for Primarily Unresectable Chondrosarcoma  
**Hanna Liikanen (Birmingham, UK)**
- 12.25 ID 213 - Clear Cell Sarcoma: A Retrospective Case Series from a Single Tertiary Orthopedic Tumor Unit  
**Natalie Green (Birmingham, UK)**
- 12.30 ID 216 - What are the Results of Resection of Soft Tissue Sarcoma of the Distal Lower Leg?  
**Eiji Nakata (Okaiama, JP)**
- 12.35 ID 280 - Validation of the Personalized Sarcoma Care (PERSARC) Prognostic Tool in Turkish Patients with Soft Tissue Sarcomas: A Single-Center Experience  
**Enes Kanai (Istanbul, TU)**
- 12.40 ID 300 - Presentation and outcomes of extraskeletal chondrosarcomas treated with surgical Resection  
**Lee Zuckerman (Los Angeles, USA)**
- 12.45 ID 320 - Survival and Complication Profile in Myxoid Liposarcomas  
**Berksu Polat (Istanbul, TU)**
- 12.50 Discussion  
13.00

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| <b>13.00</b> | <b>IMPLANTCAST SYMPOSIUM</b>  |
| <b>14.00</b> | <b>Update on Mega prosthesis and Customised solutions</b>   |
|              | <i>Moderators: Pietro Ruggieri (Padova, IT), Panayiotis Papagelopoulos (Athens, EL)</i>                           |
| 13.00        | Introduction<br><b>Pietro Ruggieri (Padova, IT)</b>   |
| 13.05        | Post-resection defects of the tibia - anatomical site dependant solutions<br><b>Daniel Kotrych (Szczecin, PL)</b> |
| 13.15        | Are we better at pelvic surgery and what's next?<br><b>Lee Jeys (Birmingham, UK)</b>                              |
| 13.25        | Joint sparing implants<br><b>Arne Streitbuerger (Essen, DE)</b>   |
| 13.35        | Problem solved: Personalized Orthopedic Reconstruction<br><b>Panayiotis Papagelopoulos (Athens, EL)</b>           |
| 13.45        | Discussion  |
| 14.00        |   |

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| <u>13.00</u> | Buffet Lunch |
| 14.00        |              |



- Session 14: FREE PAPERS BIOLOGIC RECONSTRUCTIONS**  
Moderators: **Gerhard Hobusch (Vienna, AT), Merter Yalcinkaya (Istanbul, TR)**
- KEYNOTE LECTURE: FREE PAPERS BIOLOGIC RECONSTRUCTIONS**  
**Eduardo Botello (Santiago, CL)**
- 14.10 ID 25 - Sharkbite Resection of Bone in Management Surface Bone Sarcomas  
**Ahmed Eldesouqi (Alexandria, EG)**
- 14.15 ID 31 - Use of bone transport nails for reconstruction of lower-limb diaphyseal defects in sarcoma patients: A case series  
**Maria Anna Smolle (Graz, AT)**
- 14.20 ID 40 - The outcome of closed system vs open system cryo ablation, a comparative study  
**Ahmad Shehadeh (Amman, JO)**
- 14.25 ID 85 - Long-term follow-up of vascularized fibular epiphyseal transfers in children following oncological resections  
**Adyb - Adrian Khal (Oradea, RO)**
- 14.30 ID 138 - What Are the Long-Term Clinical and Functional Outcomes After Hemicortical Allograft Reconstruction for Primary Bone Tumors?  
**Marcos Gonzales (Boston, USA)**
- 14.35 Discussion
- 14.45 ID 224 - The survival, function and complications of vascularized fibular epiphyseal transfer for proximal humeral reconstruction in skeletally immature patients for oncological indications  
**Weifeng Liu (Beijing, CN)**
- 14.50 ID 248 - Reconstruction of intercalary tibia defects using FAST - Fibula-Assisted Segment Transport  
**Anna Maria Rachbauer (Muenster, DE)**
- 14.55 ID 261 - Digit-sparing surgery for hand bone tumors: The results of en-bloc bone resection and replacement with osteoarticular allografts  
**Lorenzo Andreani (Pisa, IT)**
- 15.00 ID 305 - Extreme biologic reconstruction with magnetic lengthening nails  
**Lee Zuckerman (Los Angeles, USA)**
- 15.05 ID 306 - Aneurysmal bone cyst: A retrospective analysis of patients treated at Helsinki University Hospital  
**Gilber Kask (Helsinki, FI)**
- 15.10 Discussion  
15.20

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| <u>15:30</u><br>16:00 | Coffee Break |
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- Session 15: HOW TO WRITE A PAPER**  
Moderators: **Andreas Mavrogenis (Athens, EL), Elisa Pala (Padova, IT)**
- 16.30 Introduction  
**Elisa Pala (Padova, IT)**
- 16.35 Technical suggestions: from a project to a paper  
**Andreas Mavrogenis (Athens, EL)**
- 16.50 Discussion  
17.00

17.00

**ENOVIS LECTURE**

17.15

How 3D printing technologies are supporting highly complex cases management  
**Pietro Ruggieri, Andrea Angelini (Padova)**

17.30

**INVITED LECTURE**

18.00

Presenter: **Elisa Pala (Padova, IT)**

Limb salvage in bone tumor surgery: insights from a personal practice  
**Oleg Vyrva (Kharkiv, UA)**

18.00

**BIOCOMPOSITES LECTURE**

18.15

**Lee Jeys (Birmingham, UK)**

20.00

**SOCIAL DINNER**

## WEDNESDAY 30th

### PLENARY ROOM – MANTEGNA ROOM 1<sup>st</sup> floor

- 08.00 **Session 16: RECONSTRUCTIONS AND COMPLICATIONS**  
09.30 Moderators: *Fabrice Fiorenza (Limoges, FR), Pietro Ruggieri (Padova, IT)*
- 08.00 **KEYNOTE LECTURE: RECONSTRUCTIONS AND COMPLICATIONS**  
08.10 **Matthew Houdek (Rochester, USA)**
- 08.10 ID 35 - Telangiectatic Osteosarcoma (TOS) of the Extremity – Retrospective Review of a Single Center. Is Early Limb Salvage a Reasonable Option?  
**Vineet Kurisunkal (Birmingham, UK)**
- 08.15 ID 55 - Long Term Results of Non-Invasive Expandable Prosthesis with Adult Conversion  
**Ashley Castan (Newark, USA)**
- 08.20 ID 76 - Foot and Joint Preservation in Ankle Tumor Surgery: A Multicenter Retrospective Study  
**Halil Bulut (Istanbul, TU)**
- 08.25 ID 130 - Functional Outcomes of Reverse Shoulder Arthroplasty and Allograft-Prosthetic Composite in Oncologic Patients  
**Lotte Roelien van der Linden (Boston, USA)**
- 08.30 ID 149 - The Risk of Venous Thromboembolism (VTE) in Orthopedic Oncology Patients Extends Far Beyond the Index Operative Hospital Admission Necessitating Long-Term Surveillance  
**Megan R. Donnelly (New York, USA)**
- 08.35 ID 169 - About 60 Guepar prostheses in osteosarcoma: what will happen after 35 years of follow-up?  
**Eric Mascard (Paris, FR)**
- 08.40 Discussion
- 08.50 ID 318 - Extraarticular Resection Preserving Extensor Mechanism in Primary Malignant Bone Tumors around the Knee: Surgical Technique and Complications  
**Osman Emre Aycan (Istanbul, TU)**
- 08.55 ID 327 - Oncological Outcomes Following Treatment of Periosteal Osteosarcoma  
**Bhim Bahadur Shreemal (Birmingham, UK)**
- 09.00 ID 328 - Impact of gluteal muscle fixation on hip dislocation in tumor patients with a modular prosthesis of the proximal femur  
**Markus Hanna (Vienna, AT)**
- 09.05 ID 337 - Acetabular wear and functional outcomes after proximal femur tumor resection  
**Kerem Başarir Haliç (Istanbul, TU)**
- 09.10 ID 344 - Surgical outcomes of pediatric bone tumor resections after national centralization of care in the Netherlands  
**L.H.M. van Schalkwijk (Leiden, NL)**
- 09.15 ID 356 - What are the complications, reconstruction survival and functional outcomes of modular prosthesis and allograft-prosthesis composite for proximal femur reconstruction in adults with primary bone tumors  
**Ahmed Atherley O'Meally (Bologna, IT)**
- 09.20 Discussion  
09.30

- Session 17: SPINAL AND SACRAL SURGERY**  
Moderators: *Philipp Funovics (Vienna, AT), Andrea Angelini (Padova, IT)*
- KEYNOTE LECTURE: SPINAL AND SACRAL SURGERY**  
**F. Hornicek (Miami, FL)**
- 09.40 ID 67 - The Surgical Management of Gross Chordoma ( $\geq 50$  mm or  $\geq 25$  cc): A Single-Center Retrospective Study  
**Halil Bulut (Istanbul, TU)**
- 09.45 ID 68 - Surgical Outcomes in Oncological Sacrectomy: A Detailed Analysis of Surgical Site Infections (SSI)  
**Enes Kanay (Istanbul, TU)**
- 09.50 ID 122 - The placement of intraoperative epidural catheters reduces inpatient postoperative pain and opioid usage after complex oncologic spine surgery: a propensity score weighted analysis  
**Shalin Patel (Houston, USA)**
- 09.55 ID 136 - Investigating the Biomechanical Effects of Bone Graft Type on a Complex Spinopelvic Reconstruction: A CT-based 3D Finite Element Analysis  
**Ritika Menghani (Houston, USA)**
- 10.00 ID 137 - Less invasive resections of spinal osteoid osteomas and osteblastomas with intraoperative MRI  
**Hagen Fritzsche (Dresda, DE)**
- 10.05 ID 147 - Impact of Unplanned 30-Day Readmission on Mortality Risk in Patients with Sacrococcygeal Chordomas: A National Cancer Database Analysis  
**David A Stewart (Nashville, USA)**
- 10.10 ID 273 - Robot-assisted one-stage combined anterior and posterior approach to sacral chordomas. A new frontier for multidisciplinary surgical treatment  
**Lorenzo Andreani (Pisa, IT)**
- 10.15 ID 339 - Carbon fibre-reinforced PEEK implants for vertebral body replacement of the cervical spine: Surgical, functional, and oncological outcomes  
**Markus Hanna (Vienna, AT)**
- 10.15 Discussion  
10.30

**10.30 PRESIDENTIAL SESSION "INTERNATIONAL REGISTRIES: AN UPDATE"**  
11.00 Moderator: *Joanna Szkandera (Graz, AT)*

- 10.30 Update on Sarcoma Registries  
10.40 **Benjamin Miller (Iowa City, USA)**
- 10.40 Teaching and Learning  
10:50 **Michiel van de Sande (Utrecht, NL)**
- 10:50 Discussion  
10:00

**Session 18: UPDATE IN MEDICAL TREATMENTS OF SARCOMAS**  
Moderators: *Joanna Szkandera (Graz, AT), Emanuela Palmerini (Bologna, IT)*

- 11.00 Standards and New Developments in the Treatment of Soft Tissue Sarcoma  
11.10 **Antonella Brunello (Padova, IT)**

11.10 Standards and New Developments in the Treatment of Bone Sarcoma  
11.20 **Joanna Szkandera (Graz, AT)**

11.20 Standards and New Developments in the Treatment of TGCT and Desmoid Tumors  
11.30 **Silvia Stacchiotti (Milano, IT)**

11:30 Coffee Break  
12:00

12.00 **CAMPANACCI LECTURE**  
12.30 *Presenters: Pietro Ruggieri (Padova, IT), Andrea Angelini (Padova, IT)*  
**Angelo Paolo Dei Tos (Padova, IT)**

**PLENARY ROOM – MANTEGNA ROOM**  
**1<sup>st</sup> floor**

12:30 **EXACTECH SYMPOSIUM**  
13:30 The active intelligence: Equinoxe total shoulder GPS navigation with humeral reconstruction prosthesis  
12:30 Welcome: **Pietro Ruggieri (Padova, IT)**  
12:35 Indications and navigation planning for HRP  
**Elisa Pala (Padova, IT)**  
12:50 The use of Exactech HRP after tumor resection: advantages and results (video)  
13:05 Case presentations  
**Giulia Trovarelli (Padova, IT)**  
13:15 Q&A  
13:25 Conclusions  
13:30 **Elisa Pala (Padova, IT)**

13.30 **GENERAL ASSEMBLY**  
14.30 Plenary Room – Mantegna Room (1<sup>st</sup> floor)

14.30 Buffet Lunch  
15.00

15.00 **Session 19: ARTIFICIAL INTELLIGENCE AND ETHICS**  
16.00 *Moderators: Laura Campanacci (Bologna, IT), Cirstoiu Catalin (Bucharest, RO)*

15.00 **KEYNOTE LECTURE: ARTIFICIAL INTELLIGENCE AND ETHICS**  
15.10 **Andreas Leithner (Graz, AT)**

15.10 ID 12 - Challenging The Multidisciplinary Tumor Board: Can AI Match Expert Decisions In Sarcoma Care?  
**Michele Di Lonardo (Pisa,IT)**

- 15.15 ID 20 - Comparative analysis of Deep Learning frameworks for automated pelvic bone tumor segmentation: clinical implications for radiotherapy and surgical applications  
**Tanya Fernández-Fernández (Madrid, ES)**
- 15.20 ID 142 - Advancing Prognostics in Oncology: Machine Learning Models for Predicting 2-Year and 5-Year Survival Rates in Patients with Undifferentiated Pleomorphic Sarcoma  
**Bishoy Galoaa (Boston, USA)**
- 15.25 ID 167 - Evaluation of ChatGPT and Gemini Responses to Common Patient Inquiries Regarding Bone Sarcomas According to ESMO Guidelines  
**Ahmet Berkay Girgin (Ankara, TU)**
- 15.30 ID 309 - The use of mixed reality technology in pediatric surgery for bone and soft tissue tumors - a single institution experience  
**Justyna Antoniuk-Majchrzak (Warsaw, PL)**
- 15.35 ID 350 - Can AI Speak Bone? Evaluating the Accuracy of Responses to Common Patient Questions in Orthopedic Oncology  
**Abdullah Ghali (Houston, USA)**
- 15.40 ID 351 - Breaking Language Barriers: Assessing AI's Accuracy in Multilingual Responses About Bone Tumors  
**Youssef Khalafallah (Houston, USA)**
- 15.45 A multimodal AI model for prediction of the survival in sarcoma  
**Anthony Bozzo (Montreal, CA)**
- 15.50 Conclusions  
16.00 **Valery O. Lewis (Houston, USA)**

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| <u>16.00</u> | <b>CLOSING CERIMONY</b>                         |
| 16.30        | E. Pala, P. Ruggieri, J. Szkandera, A. Angelini |
|              | <b>AWARD CEREMONY</b>                           |
|              | <b>Best Papers and Best Posters</b>             |
|              | <b>PRESENTATION OF THE 2026 EMSOS MEETING</b>   |
|              | J. Casanova                                     |
|              | <b>CLOSING REMARKS</b>                          |
|              | E. Pala, P. Ruggieri                            |

## WEDNESDAY 30th

### GIOTTO BALCONATA 3<sup>rd</sup> floor

- 08.00      **Session 20: FREE PAPERS BENIGN TUMORS**  
09.30      Moderators: **Olga Savvidou (Athens, EL), Jos AM Bramer (Amsterdam, NL)**
- 08.00      **KEYNOTE LECTURE: FREE PAPERS BENIGN TUMORS**  
08.10      **Josè Casanova (Coimbra, PT)**
- 08.10      ID 2 - Impact of Early vs. Late Surgical Intervention on Outcomes in Hand Enchondroma with Pathological Fracture  
**Bilgehan Çevik (Ankara, TU)**
- 08.15      ID 14 - Aneurysmal Bone Cysts (ABC): Retrospective Analysis of 258 Cases  
**Mustafa Onur (Ankara, TU)**
- 08.20      ID 23 - Clinical outcome of curettage in atypical cartilaginous tumors of the long bones  
**Claire Scholte (Leiden, NL)**
- 08.25      ID 45 - Brown tumor as the first symptom of primary hyperparathyroidism: diagnostic and clinical challenges in our own cases.  
**Marta Karpik (Bialystok, PL)**
- 08.30      ID 87 - No fractures with the use of a calcium phosphate / calcium sulfate synthetic graft in lower extremity pediatric benign bone tumors of long bones without the use of hardware  
**Karim Masrouha (New York, USA)**
- 08.35      ID 125 - Safety and efficacy with Vimseltinib in patients with tenosynovial giant cell tumor who received no prior anti-colony-stimulating factor 1 therapy: ongoing phase 2 study  
**Michiel van de Sande (Leiden, NL)**
- 08.40      ID 231 - Hand tumors: Retrospective evaluation of 223 patients in a single center  
**Ercan Bayar Tosya (Kastamonu, TU)**
- 08.45      ID 255 - Fixation with carbon fiber plates after curettage in benign locally aggressive bone tumors: clinical and radiographic outcomes.  
**Edoardo Ipponi (Pisa, IT)**
- 08.50      ID 258 - Management and oncologic outcomes in primary osseous malignancies in the foot: a literature review and single-center experience  
**Juul Kruijer (Amsterdam, NL)**
- 08.55      ID 286 - Bioactive glass is a good alternative to autograft for filling after curettage of benign or intermediate malignant bone lesions  
**Bourbotte-Salmon Florian (Lyon, FR)**
- 09.00      ID 298 - Evaluation of the surgical management of the skeleton in patients with Ollier's disease and Maffucci syndrome  
**Lee Zuckerman (Los Angeles, USA)**
- 09.05      ID 316 - Lower Extremity Deformity Development in Hereditary Multiple Exostosis (HME) Cases  
**Berkay Doğan (Istanbul, TU)**
- 09.10      ID 360 - Malignant and Benign Bone and Soft Tissue Lesions of the Foot  
**Elisa Pagliarini (Padova, IT)**

- 09.15 ID 361 - Pigmented Villonodular Synovitis of the foot and ankle joints: combined multicenter study  
**Alberto Crimi (Padova, IT)**
- 09.20  
10.30 Discussion
- 09.30  
10.30 **SPAGN SESSION**  
Moderator: **Kathrin Schuster (Wölfersheim, DE)**
- 09:30 Welcome to Sarcoma Patient Advocacy Global World: Patient Advocates & Experts as Partners in Sarcoma Care and Research  
**Ornella Gonzato (Udine, IT)**
- 9:40 Focusing on the Sarcoma Diagnostic Process:  
Findings of the SPAGN Global Sarcoma Diagnosis Pathway Survey  
**Verena Loidl (munich, DE)**
- 9:55 Focusing on Needs and Priorities of Bone Sarcoma Patients:  
Findings of the FOSTER Patient & Parent Group Survey  
**Kathrin Schuster (Wölfersheim, DE)**
- 10:05 The Bone Sarcoma Alliance: Challenges and opportunities for the Global Bone Sarcoma Community  
**Ornella Gonzato (Udine, IT)**
- 10:10 Patient's preferences in bone sarcoma surgery: A real-life perspective  
**Nicole Ciancy**
- 10:25 Q&A
- 10.30  
11.30 **Session 21: FUNCTIONAL RESULTS AND Q&L**  
Moderators: **Hazem Wafa (Leuven, BE), Burkhard Lehner (Heidelberg, DE)**
- 10.30  
10.40 **KEYNOTE LECTURE: FUNCTIONAL RESULTS AND Q&L**  
**Eduardo Ortiz-Cruz (Madrid, ES)**
- 10.40 ID 118 - How Do the Functional Outcomes Vary Based on Ethnicity and Sex Following Tumor Resection and Endoprosthetic Reconstruction? – A Secondary Analysis from the PARITY trial  
**Marcos R. Gonzalez (Boston, USA)**
- 10.45 ID 247 - Gait stability long-term after a rotationplasty  
**Gitte G.J. Krebbekx (Amsterdam, NL)**
- 10.50 ID 249 - Return to sport following local treatment of pediatric bone tumors in the Extremities  
**W. Peter Bekkering (Utrecht, NL)**
- 10.55 ID 308 - Body image of adolescent and adult patients in follow-up after a pediatric bone sarcoma: impact of location and local treatment  
**Hinke van der Hoek (Utrecht, NL)**
- 11.00 ID 311 - Targeted Muscle Reinnervation for pain relief in Orthopedic Oncology amputees  
**Gabriel Leung (Hong Kong, TH)**
- 11.05 ID 338 - Quality evaluation of functional outcome measurement instruments in patients with bone sarcoma of the pelvis or lower extremity: a systematic review using COSMIN  
**Kiki J Blom (Utrecht, NL)**



11.10 ID 362 - Long term outcomes of 'tibia into acetabulum' (Winkelmann Type B IIIa)  
Rotationplasty after total femur excision in children  
**Ashish Gulia (Mumbai, ID)**

11.15 Discussion  
11.30

11:30 Coffee Break  
12:00

13.30 **GENERAL ASSEMBLY**  
14.30 Plenary Room – Mantegna Room (1<sup>st</sup> Floor)

14.30 Buffet Lunch  
15.00

15.00 **Session 22: MANAGEMENT AFTER WHOOPS SURGERY**  
16.00 Moderators: **Massimiliano De Paolis (Bologna), Ashish Gulia (Mumbai, ID)**

15.00 **KEYNOTE LECTURE: MANAGEMENT AFTER WHOOPS SURGERY**  
15.10 **Shintaro Iwata (Tokyo, JP)**

15.10 ID 43 - Core needle biopsies in sarcoma patients: Should we always resect the biopsy tract?  
A survey among EMSOS members  
**Magdalena Gilg (Graz, AT)**

15.15 ID 131 - Inadvertent fixation of pathological fractures of the proximal femur after primary  
bone sarcoma  
**Sherif Ahmed Kamel (Cairo, EG)**

15.20 ID 164 - Whoops surgery and recurrent sarcoma, a case of a multidisciplinary approach of  
Success  
**Bianca Sousa Barros (Porto, PT)**

15.25 ID 199 - Grade 2 central chondrosarcoma treated by intralesional curettage: observation or  
surgery? A multicentric retrospective study  
**Andrea Sambri (Bologna, IT)**

15.30 ID 218 - Management of pathological fractures of the proximal femur following prior  
inappropriate fixation  
**Sherif Ahmed Kamel (Cairo, EG)**

15.35 ID 230 - The Impact of Surgical Margin Distance on Local Recurrence and Survival in Patients  
with Soft Tissue Sarcoma  
**Nevzat Dabak (Samsun, TU)**

15.40 ID 239 - The prognostic impact of residual tumor mass at re-resection following unplanned  
excision of soft tissue sarcomas  
**Teodora Todorova (Skopje, NMK)**

15.45 ID 364 - Unplanned excision of sarcomas: What are the effects of re-excision?  
**Frank Traub (Mainz, DE)**

15.50 Discussion  
16.00

16.00

**CLOSING CERIMONY**

16.30

E. Pala, P. Ruggieri, J. Szkandera, A. Angelini

**AWARD CEREMONY**

**Best Papers and Best Posters**

**PRESENTATION OF THE 2026 EMSOS MEETING**

J. Casanova

**CLOSING REMARKS**

E. Pala, P. Ruggieri