

SCIENTIFIC PROGRAM

WEDNESDAY, OCTOBER 7, 2015

8:20 am-10:00 am
QUALITY INTRODUCTION • Ben Miller, MD
Moderators for Session 1:
Ben Miller, MD; Peter Steadman, MD; Mark Scarborough, MD

- 8:25 am- 8:30 am

1

Patient Reported Outcomes After Sacral Resection Based On The Nerve Roots Sacrificed
Olivier Van Wulfften Palthe, MD*; Patrick J Boland, MD; Peter S Rose, MD; Francis J Hornicek, MD; Michael J Yaszemski, MD, PhD; Franklin H Sim, MD; John H Healey, MD, FACS; Joseph Hasbrouck Schwab, MD
Massachusetts General Hospital
- 8:30 am- 8:35 am

2

Validation Of Eq-5D In Patients Treated For Extremity Sarcoma
Anu Kristiina Suokas, PHD; Gareth Stephens; Lucinda Gosling; Robert John Grimer, FRCS*
Royal Orthopaedic Hospital NHS Foundation Trust
- 8:35 am- 8:40 am

3

The Validity, Reliability, And Responsiveness Of Commonly Used Orthopedic Outcome Measures, Cancer Specific Measures, And Patient Reported Functional And Quality Of Life Measures
Justin E Bird, MD*; Joseph Edward Niland, BS; Valerae O Lewis, MD; Theresa Nalty, PhD, PT
The University of Texas MD Anderson Cancer Center
- 8:41 am- 8:45 am

4

Patient Reported Outcomes And Clinician Reported Outcomes Commonly Used In Orthopedics And Oncology
Justin E Bird, MD*; Joseph Edward Niland, BS; Valerae O Lewis, MD; Theresa Nalty, PhD, PT
The University of Texas MD Anderson Cancer Center
- 8:45 am- 8:50 am

5

Are Sports Activity Levels Reached In Long-Term Survivors Of Bone And Soft-Tissue Sarcomas After Limb Salvage Surgery Associated With Better Quality Of Life?
Gerhard Martin Hobusch, MD*; Nikolaus Wilhelm Lang; Paul Kolbitsch; Philipp Theodor Funovics, MD; Puchner Stephan, MD; Michael Hagmann; Reinhard Windhager, MD
Medical University of Vienna, Department of Orthopaedics
- 9:05 am- 9:08 am

6

The Impact Of A Communal Multidisciplinary Team On Limb Salvage In Lagos, Nigeria
Oluwaseyi Kayode Idowu*; Adesegun Abudu, FRCS (Ortho); Samuel Eyesan; S.O.G Giwa; O.E Nnodun; F.B Abdulkareem; M.Y.M Habeebu
National Orthopaedic Hospital Lagos
- 9:08 am- 9:11 am

7

Service Redesign For Tertiary Sarcoma Referral Service
Hazem Wafa, MD*; Peter S Young; Ashish Mahendra, MD
Glasgow Royal Infirmary, United Kingdom
- 9:11 am- 9:14 am

8

Commercial Activity Monitor For Assessing Free-Living Limb Salvage Outcome In Pediatric Lower Extremity Bone Cancer
Ernest U Conrad III, MD*; Kenneth Robert Gundle, MD; Stephanie Punt, BS; Darin Justyn Davidson, MD
University of Washington Medical Center and Seattle Children's Hospital
- 9:14 am- 9:17 am

9

Visual Analytics For The Integration Of Health Related Quality Of Life Data Into "Point Of Contact" Clinical Care In Orthopaedic Oncology: A Pilot Study
Justin E. Bird, MD*; Theresa Nalty PhD; Jing He; Alexander Penny; Kristi K. Posey PA-C; Valerae O. Lewis, MD
The University of Texas MD Anderson Cancer Center
- 9:25 am- 9:30 am

10

The Variability In Surgical Margin Reporting In Limb Salvage Surgery For Sarcoma
Benjamin J. Miller, MD, MS*; Kevin Hoang; Yubo Gao, PhD
University of Iowa
- 9:30 am- 9:35 am

11

Long Term Outcomes And Satisfaction Of Rotationplasty Patients In The Treatment Of Lower Extremity Sarcomas
Sean V. McGarry, MD; Courtney M. Grimsrud, MD*; Sean V. McGarry, MD; Cameron Killen M.D.
The University of Nebraska Medical Center
- 9:35 am- 9:40 am

12

The Rate And Causes Of 90-Day Unplanned Re-Admission After Soft-Tissue Sarcoma Resection.
Robert J. Wilson, MD*; Jessica R. Wilson M.D.; Jennifer Lynne Halpern, MD; Herbert S. Schwartz, MD; Ginger E. Holt, MD
Vanderbilt University Medical Center

10:55 am-2:30 pm
NAVIGATION INTRODUCTION • Lee Jeys, MD
Moderators for Session 2:
John Abraham; Xiaohui Niu

- 10:55 am- 11:00 am

13

Augmented-Reality Assistance In Bone Tumor Surgery
Hwan Seong Cho*; Park Yeong Kyoony; Han Ilkyu; Kim Han-Soo
Seoul National University Bundang Hospital
- 11:00 am- 11:05 am

14

Enhancing Precision And Accuracy In Bone Tumour Treatment; An Experimental Comparison Of Freehand, Computer Assistance (Cas) And A Novel Universal Cas Saw Guide.
PC Jutte, MD, PHD; Jasper G Gerbers MD*; Pavel K. Tomaszewski PhD; Nico Verdonshot, MSc; Sjoerd Bulstra, MD; Paul C. Jutte, MD, PhD
University of Groningen, University Medical Center Groningen, The Netherlands
- 11:05 am- 11:10 am

15

3D Surgical Planning And Patient Specific Instruments (Psis) Can Achieve Good Accuracy For Complex Bone Resections In Bone Sarcoma Patients.
Kwok Chuen Wong, FRCS (ORTHO)*; Kwan Yik Sze; Shekhar Madhukar Kumta
Orthopaedic Oncology, Prince of Wales Hospital, Hong Kong
- 11:10 am- 11:15 am

16

Standardizing Bony Sarcoma Margin Documentation With Intraoperative Computer-Aided Navigation
Ernest U Conrad III, MD*; Stephanie Punt, BS; Jedediah K. White, BS; Viviana Bompadre, PhD; Alissa Little RN
Seattle Children's Hospital, Seattle, WA
- 11:25 am- 11:30 am

17

What Is The Expected Learning Curve In Computer Assisted Navigation For Bone Tumor Resection?
German Luis Farfalli, MD; Jose Ignacio Albergo, MD*; Lucas Eduardo Ritacco, MD; Miguel Angel Ayerza, MD; Federico Edgardo Milano, BS; Luis Alberto Aponte-Tinao, MD; Viviana Bompadre, PhD; Alissa Little RN
Italian Hospital of Buenos Aires
- 11:30 am- 11:35 am

18

Computer Navigation Aided Precision Resection Of Sacral Chordomas
Yongkun Yang*
Department of Orthopedic Oncology Surgery, Beijing Ji Shui Tan Hospital, Peking University
- 11:35 am- 11:40 am

19

Can You Improve Outcomes Of P1+S Resections Using Navigation?
Minna Laitinen, MD, PHD; Michael Christopher Parry, MB, ChB, MD, FRCS (Ortho); Jose Ignacio Albergo, MD; Robert John Grimer, FRCS; Lee Jeys, FRCS*
Royal Orthopaedic Hospital
- 11:40 am- 11:45 am

20

Patient-Specific 3D-Printed Registration And Cutting Guides For Hemicortical Resection And Reconstruction Of Metaphyseal Tumors Around The Knee
Florencio Pablo Segura, MD*; Facundo Segura; Facundo Pedemonte
SEGURA Centro Privado de Ortopedia y Traumatologia

1:00 pm-2:20 pm
BASIC SCIENCE/CLINICAL TRIALS • No introduction talk
Moderators for Session 3:
Parker Gibbs; Toshifumi Ozaki; Kurt Weiss

- 1:00 pm- 1:05 pm

21

Mcs110, An Anti-Csf-1 Antibody, For The Treatment Of Pigmented Villonodular Synovitis
Edward Y. Cheng, MD*; Anna Kudlidjian MD; Joel A. Block; Steven Gitelis, MD; Robert Mikael Henshaw, MD; Brenda A. Wilky MD; Jonathan C. Trent MD; John Alexander Abraham, MD; Ursula Schramm Sr, PhD; Pascale Emilie Pinot, MSc; Yinuo Pang; Marie-Anne Valentin; Babul Borah; Liewan Jiang; Ronenn Roubenoff, MD, MS
University of Minnesota
- 1:05 pm- 1:10 pm

21

Long-Term Treatment Of Tenosynovial Giant Cell Tumor (Tgct) With Plx3397, A Selective Colony Stimulating Factor 1 Receptor (Csf1r) Kinase Inhibitor
Sandra Tong, MD; John H. Healey, MD, FACS*; Charles Peterfy MD, PhD; Peter Countryman; Bartosz Chmielowski MD, PhD; Eunice L. Kwak MD, PhD; Vicki L. Keedy MD; Stephen Patrick Anthony DO; Arthur P. Staddon MD; Allen Lee Cohn MD; Carlos R. Becerra MD; Samuel Ejadi MD; William Tap, MD
Memorial Sloan Kettering Cancer Institute and other institutions
- 1:10 pm- 1:15 pm

22

Real-Time Tissue Discrimination During Soft Tissue Sarcoma Surgical Resection With Raman Spectroscopy
Zain Sherali Gowani*; John Quan Minh Nguyen, BS, MS; Maggie O'Connor; Isaac James Pence, MS; The-Quyen Nguyen, PhD; Anita Mahadevan-Jansen PhD; Ginger E. Holt, MD
Vanderbilt University



1:15 pm- 1:20 pm

23 **Pet Response Criteria (Percist) Predict Progression-Free Survival And Time To Local Or Distant Progression After Chemotherapy With Regional Hyperthermia For Soft-Tissue Sarcoma**
Hans Roland Dürr*; Wolfgang P. Fendler; Mona Lehmann; Andrei Todica; Ken Herrmann; Thomas Knösel; Martin Angele; Josefine Rauch; Sultan Abdel-Rahman; Rolf D. Issels; Peter Bartenstein; Clemens C. Cyran; Markus Hacker; Lars Lindner
Department of Orthopaedic Surgery, Orthopaedic Oncology, Ludwig-Maximilians-University of Munich, Munich, Germany

1:20 pm- 1:25 pm

24 **Prophylactic Antibiotic Regimens In Tumor Surgery (Parity): A Pilot Multi-Center Randomized Controlled Trial**
Michelle Ghert, MD*
McMaster University

1:25 pm- 1:30 pm

25 **Prospective Outcome Study Of Proton Therapy For Chordomas And Chondrosarcomas Of The Spine**
Daniel Indelicato, MD*
University of Florida

1:40 pm- 1:43 pm

26 **Today's Challenges In 3D Printing Process Chain Of Custom-Made Implants**
Peter Scheinermann*; Maximilian Munsch; Lia Schenk
implantcast GmbH

1:43 pm- 1:46 pm

27 **Implantation Of Customized 3-D Printed Titanium Prosthesis In Limb Salvage Surgery: A Case Series And Review Of The Literature**
Zheng Guo*; Jun Fu, MD; Hongbin Fan, MD, PhD; Zhen Wang, MD
Department of Orthopaedic Surgery, Xi-Jing Hospital, the Fourth Military Medical University

1:47 pm- 1:49 pm

28 **Raman Spectroscopy Demonstrates Pth Prevention Of Radiation-Induced Damage On Bone Mineral Properties And Blunting Of Bone Matrix Damage In An Irradiated Mouse Model**
Timothy A. Damron, MD*; Bo Gong PhD; Megan E. Oest, PhD; Kenneth A. Mann; Michael D. Morris, PhD
SUNY Upstate Medical University

1:49 pm- 1:52 pm

29 **Radiofrequency Ablation Of Atypical Cartilaginous Tumors In The Long Bones; Proof Of Principle In 44 Patients.**
PC Jutte, MD, PHD*; Edwin Dierselhuis; Jelle Overbosch; Albert Suurmeijer
University of Groningen, University Medical Center Groningen, The Netherlands.

2:00 pm- 2:05 pm

30 **Identification Of Cd146 As A Marker Of Tumor-Propagating Cells In Human Sarcomas Leads To Novel Treatment Opportunities**
Jay S Wunder, MD*; Yuning Jackie Tang; Qingxia Wei PhD; Heather Whetstone MSc; Ilkyu Han, MD; Benjamin Alman, MD
Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, Canada

2:05 pm- 2:10 pm

31 **Three-Dimensional (3D) Culture Of Bone Derived 786-O Renal Cell Carcinoma Retains Relevant Clinical Characteristics Of Bone Metastases**
Robert L Satcher Jr, MD*; Tianhong Pan; Eliza Fong; Mariane Martinez; Daniel A. Harrington; Sue-Hwa Lin; Cindy Farach-Carson PhD
MD Anderson Cancer Center

2:10 pm- 2:15 pm

32 **Inhibition Of Plk Induces Growth Arrest And Apoptosis In Tumorigenic Os Cells**
Maria V. Guijarro, PHD*; Elham Nasri, MD; Ali Zarezadeh, MD; Yuan Lu; Emma Maria Viktoria Hyddmark, BS; Margaret Ellen White; Glyn D. Palmer; Padraic P. Levings; Steven Ghivizzani; C. Parker Gibbs Jr, MD
University of Florida

2:15 pm- 2:20 pm

33 **Drivers Of Mesenchymal-Epithelial Transitions In Sarcomas**
Suzanne Bartholf Dewitt, DVM*; Jason Somarelli; Mary Keara Boss; Alexander Hish; Shivee Gilja; William Eward, MD, DVM
Duke University

3:10 pm-5:10 pm

INTRODUCTION TO BIOLOGIC RECONSTRUCTION - Luis Aponte-Tinao
Moderators for Session 4:
Robert Quinn; David Greenburg; Olavo Pires De Carmargo

3:10 pm- 3:15 pm

34 **Clinical Outcomes Of Patients Reconstructed With Heat-Treated Autograft After Resection Of Malignant Musculoskeletal Tumors**
Kunihiro Ikuta, MD*; Kozawa Eiji; Hamada Shunsuke; Ueda Takafumi; Ishiguro Naoki
Department of Orthopaedic Surgery, Nagoya University Graduate School of Medicine

3:15 pm- 3:20 pm

35 **Extra-Corporeal Irradiated Bone Autografts In Reconstruction Of Diaphyseal Tibial Defects**
Mobolaji Ajekigbe, BS*; Czar Louie Gaston, MD; Lee Jeys, FRCS; Roger Tillman, FRCS; Simon R. Carter, MD; Robert John Grimer, FRCS; Adesegun Abudu, FRCS, FRCS (Ortho), MSc
Royal Orthopaedic Hospital

3:20 pm- 3:25 pm

36 **Recycled Autograft Augmented With Vascularized Fibular Graft For Reconstruction Of Bone Defects After Tumor Resection**
Min Wook Joo, MD; Kyung Il Kim*; Yong Koo Kang, MD; Yang Guk Chung, MD; Won-Jong Bahk; Seung Han Shin, MD, PhD; Jin-Woo Kang
Department of Orthopaedic Surgery, The Catholic University of Korea, Republic of Korea

3:25 pm- 3:30 pm

37 **Complications Of Recycled Autograft For Reconstruction After Malignant Musculoskeletal Tumor Resection**
Min Wook Joo, MD*; Yong Koo Kang, MD; Yang Guk Chung, MD; Xiaohui Niu, MD; Hiroyuki Tsuchiya, MD
Department of Orthopaedic Surgery, College of Medicine, The Catholic University of Korea, Republic of Korea

3:45 pm- 3:48 pm

38 **Biological Reconstruction After Resection Of Malignant Bone Tumors**
Rainer Baumgart, MD*
ZEM-Germany Limb Lengthening Center Munich

3:48 pm- 3:51 pm

39 **Primary Arthroplasty In Healed Osteoarticular Allografts In Patients With History Of Primary Femoral Bone Tumors**
Nuno Rui Cools Paulino Pereira, MD, MSC; Bianca Monica Verbeek, MD*; Joseph Hasbrouck Schwab, MD; Santiago Lozano Calderon, MD, PhD
Massachusetts General Hospital

3:51 pm- 3:54 pm

40 **Bone-Tendon-Bone Allograft Reconstruction For Peri-Patella Sarcoma Cases**
Jungo Imanishi*; Damien Grinsell, FRACS; Peter Choong, MB, BS, MD, FRACS
St. Vincent's Hospital, Melbourne

3:54 pm- 3:57 pm

41 **Functional Neuro-Vascularized Muscle Transfer For Oncological Reconstruction Of Extremity Sarcoma**
Keiichi Muramatsu*
Yamaguchi University Hospital

4:05 pm- 4:10 pm

42 **Is It The Expandable Prosthesis The Only Reconstructive Option After Distal Femur Resections In Children With High-Grade Bone Sarcomas?**
Laura Campanacci, MD*; Davide Donati, MD; Marco Manfrini, MD
Istituto Ortopedico Rizzoli

4:10 pm- 4:15 pm

43 **Lower Limb Recostructions With Bone Massive Allograft In Pediatric Patients**
Daniel Andreas Müller, MD; Giovanni Beltrami, MD* ; Francesca Totti, MD; Daniel Andreas Müller, MD; Guido Scoccianti; Rodolfo Capanna, MD
Orthopaedic Oncology Unit, Careggi University Hospital, Florence, Italy

4:15 pm- 4:20 pm

44 **Functional Outcome In Children Undergoing Resection-Arthrodesis For Malignant Tumors Around The Knee Joint**
Shah Alam Khan, MS, DNB, MRCSED, FRCS, M.Ch.Orth*
All India Institute of Medical Sciences, New Delhi, India

4:20 pm- 4:25 pm

45 **Femoral Physeal Fixation And Growth Abnormalities After Pediatric Limb Salvage**
Ernest U. Conrad III, MD*; Tressa Mattioli-Lewis, BS, MPH; John Shapton BS; Stephanie Punt, BS; Bhasanan Sukanthanak
Seattle Children's Hospital, Seattle, WA USA

4:40 pm- 4:45 pm

46 **A Novel “Homolateral Femur Rotation-Lengthening With Allograft Transplantation Technique” As An Option Of Reconstruction For Huge Defects After Pelvic Tumor Resection: Technical Note And Early Experience**
Xiaohui Niu, MD*; Hairong Xu, MD; Yuan Li
Department of Orthopedic Oncology Surgery, Beijing Ji Shui Tan Hospital, Peking University. Beijing, China

4:45 pm- 4:50 pm

47 **Allograft Reconstruction For The Proximal Humerus - Does It Work?**
Daniel Andreas Müller, MD*; Giovanni Beltrami, MD; Guido Scoccianti; Rodolfo Capanna, MD
Orthopaedic Oncology Unit, Careggi University Hospital, Florence, Italy

4:50 pm- 4:55 pm

48 **Outcome And Complications Following Free Fibula Reconstruction For Oncologic Defects Of The Extremities**
Matthew Thomas Houdek, MD*; Eric R. Wagner, MD; Franklin H. Sim, MD; Allen T. Bishop, MD; Alexander Yong Shik Shin, MD; Steven L. Moran, MD
Mayo Clinic



4:55 pm- 5:00 pm

49 **Massive Pelvic Allograft Reconstruction Of The Acetabular Area: Management Of Hip Mechanical Failure**
Carlo Romagnoli, MD; Federica Mariotti; Matteo Romantini, MD; Massimiliano Depaolis; Davide Donati, MD*
Istituto Ortopedico Rizzoli

THURSDAY OCTOBER 8, 2015

8:10 am-10:00 am

INTRODUCTION TO PROSTHETIC RECONSTRUCTION • Reinhard Windhager
Moderators for Session 5:
Georg Gosheger; Francis Patterson

8:10 am- 8:15 am

50 **Revision Surgery Does Not Lead To Increased Rate Of Failure In Proximal Humerus Reconstruction With A Metallic Endoprosthesis: A Multi-Center Study**
John Groundland, MD*; Odion Binitie, MD; Michaël Bus, MSc; Sofia Thoma MD; Sander Dijkstra, MD; Tom Cosker; Michiel Van De Sande, MD, PhD; G Douglas Letson, MD
University of South Florida, H. Lee Moffitt Cancer Center, Nuffield Orthopedic Centre, Oxford, UK, Leiden University Medical Center

8:15 am- 8:20 am

51 **The Use Of Reverse Total Shoulder Arthroplasty In Primary And Revision Implants After Resection Of Tumors Of The Proximal Humerus: A Report Of 20 Cases**
Professor Pietro Ruggieri*; Teresa Calabrò; Andrea Angelini, MD; Giulia Trovarelli; Elisa Pala, MD
II Department of Orthopedics, University of Bologna, Istituto Rizzoli, Italy

8:20 am- 8:25 am

52 **Internal Hemipelvectomy Reconstruction With Ice-Cream Cone Type Prosthesis**
Irene Barrientos Ruiz; Eduardo Jose Ortiz Cruz Sr, MD; Manuel Peleteiro Pensado Sr
University Hospital La Paz

8:25 am- 8:30 am

53 **Managing Large Bone Defects With Custom Spacers In Patients With Musculoskeletal Infections**
Joseph Benevenia, MD*; Francis Robert Patterson, MD; Kathleen S. Beebe, MD; Steven Rivero, MD
Rutgers New Jersey Medical School

8:40 am- 8:43 am

54 **Gait Analysis In Patients With Endoprosthesis Replacement Around The Knee**
Prof. Dr. Vivek Ajit Singh, MBBS, MD*; Chan Wei Heng
University Malaya Medical Center

8:43 am- 8:46 am

55 **Extra-Articular Resection Of The Knee For Distal Femur Bone Sarcomas: A Retrospective Review Of 30 Cases**
Nicola Fabbri, MD; Eleonora Marini, MD*; Rui Yang, MD; Patrick J. Boland, MD; John H. Healey, MD, FACS; Nicola Fabbri, MD
Memorial Sloan-Kettering Cancer Center

8:46 am- 8:49 am

56 **Uni- Or Bipolar Proximal Femoral Endoprostheses Following Tumour Reconstruction: Are Acetabular Resurfacings Necessary?**
Jonathan Daniel Stevenson*; Venkatesan Kumar; Gillian Cribb; Paul Cool
Robert Jones & Agnes Hunt Orthopaedic Hospital, Oswestry

8:49 am- 8:52 am

57 **Endoprosthetic Replacement For Malignant Tumors Of The Proximal Femur: A Consecutive Series Of 211 Patients**
Matthew Thomas Houdek, MD*; Benjamin Wilke, MD; Cody Wyles, BS; Peter S. Rose, MD; Michael J. Taunton, MD; Franklin H. Sim, MD
Mayo Clinic

8:52 am- 8:55 am

58 **Two-Institution Experience Of A Non-Invasive Expandable Endoprosthesis In The Pediatric Population**
Odion Binitie, MD*; Giulia Trovarelli; Tyag Patel, BS; Pietro Ruggieri, MD, PhD; G. Douglas Letson, MD
Moffitt Cancer Center, Istituto Ortopedico Rizzoli

8:55 am- 8:58 am

59 **Intercalary Endoprosthetic Reconstruction For Skeletal Defects Of The Femur, Tibia, And Humerus**
Joseph Benevenia, MD*; Rainer Kirchner, DMed; Francis Robert Patterson, MD; Kathleen S. Beebe, MD; Dieter Wirtz, MD; Steven Rivero, MD; Mark James Palma, MS; Max Friedrich
Rutgers New Jersey Medical School

9:10 am- 9:15 am

60 **The Lumic Prosthesis For Pelvic Reconstruction After Periacetabular Tumor Resection: Clinical Results From A European Collaborative Study**
Michael P.A. Bus; Michaël Bus, MSc; Andrzej Szafranski; Simen Sellevold; Tomasz Goryn; Paul C. Jutte, MD, PhD; Jos Brammer, MD, PhD; Arne Streitbuerger, MD; Andrzej Pienkowski; Daniel Kotrych, MD, PhD; Joanna Krzywda-Pogorzelska; Magdalena Emilia Rychlowska-Pruszyńska, DMed; Georg Gosheger, MD, PhD; Michiel Van De Sande, MD, PhD; Sander Dijkstra, MD*
Leiden University Medical Center

9:15 am- 9:20 am

61 **X-Ray Predictors Of Osseointegration For Uncemented Oncologic Implants**
Stephanie Punt, BS; Jedediah K. White, BS; Mital Sumankumar Patel, MBBS, MS; Ernest U. Conrad III, MD*
University of Washington Medical Center

9:20 am- 9:25 am

62 **Very Long Term Outcomes Following Endoprosthetic Replacements**
Robert John Grimer*; Kerem Aydin MD; Lee Jeys, FRCS; Seggy Abudu FRCS; Michael Christopher Parry, MB, ChB, MD, FRCS (Ortho); Hazem Wafa, MD; Roger Tillman, FRCS; Simon R Carter, MD
Royal Orthopaedic Hospital, Birmingham

9:27 am- 9:30 am

63 **Long Term Results Of Cemented, Hydroxyapatite Coated Distal Femoral Replacements. Has Aseptic Loosening Been Abolished And If So, Why Do They Fail?**
Roger Tillman, FRCS; Michael Christopher Parry, MB, ChB, MD, FRCS (Ortho); Seggy Abudu FRCS; Lee Jeys, FRCS; Simon R. Carter, MD; Kerem Aydin MD; Robert John Grimer*
XXXXXX

9:30 am- 9:35 am

64 **Silver Coated Endoprosthesis: Short To Medium Term Follow-Up At The Royal Orthopaedic Hospital**
Jose Ignacio Albergo, MD*; Czar Louie Gaston, MD; Minna Laitinen, MD; Michael Christopher Parry, MB, ChB, MD, FRCS (Ortho); Lee Jeys, FRCS; Simon R. Carter, MD; Roger Tillman, FRCS; Adesegun Abudu, FRCS, FRCS (Ortho), MSc; Robert John Grimer, FRCS
Royal Orthopaedic Hospital

9:45 am- 9:48 am

65 **Implant Survivorship And Modes Of Failure For Proximal Femoral, Distal Femoral And Tibial Reconstruction With Compressive Endoprosthetic Osseointegration Fixation**
Yee-Cheen Doung, MD; Ryland Kagan, MD*; Jacob R. Adams, MD; Caroline Schulman, BS; James B Hayden, MD
Oregon Health and Sciences University

9:48 am- 9:51 am

66 **Proximal Femoral And Proximal Tibial Compressive Osseointegration: Intermediate Term Outcomes**
Richard J. O'Donnell, MD; Hwan-Seong Cho, MD*; Lauren Allyson Hackney, MD; Brian Cook, MD; Richard John O'Donnell, MD; Rosanna Lisa Wustrack, MD
UCSF Helen Diller Family Comprehensive Cancer Center

9:51 am- 9:54 am

67 **Reconstruction After Tumor Resection Of The Elbow - What Works Best?**
Daniel Andreas Müller, MD; Guido Scoccianti; Rodolfo Capanna, MD; Giovanni Beltrami, MD*
Orthopaedic Oncology Unit, Careggi University Hospital, Florence, Italy

10:40 am-12:10 pm

BENIGN BONE TUMORS • Francis Lee
Moderators for Session 6:
Jay Puri; Felasfa Wodajo

10:40 am- 10:45 am

68 **Denosumab As Adjuvant Treatment For Giant Cell Tumor Of Bone - Risks And Benefits For The Oncologic Surgeon**
Daniel Andreas Müller, MD; Giovanni Beltrami, MD*; Guido Scoccianti; Rodolfo Capanna, MD
Orthopaedic Oncology Unit, Careggi University Hospital, Florence, Italy

10:45 am- 10:50 am

69 **Is Denosumab Boon Or Bane In Complicated Giant Cell Tumour Treatment? - Single Institution Experience - 72 Cases**
Raghavendra Rao, PhD; Nagaraj KR, MBBS, MD; Shilpa Prabhudesai, MD; Navaneeth S Kamath; Pramod Chinder*
HCG - Bangalore Institute of Oncology

10:50 am- 10:55 am

70 **The Use Of Denosumab In Giant Cell Tumour (Gct) Of Bone: A Review Of 44 Patients**
Czar Louie Gaston, MD; Czar Louie Gaston, MD*; Jose Ignacio Albergo, MD; Hazem Wafa, MD; Krishna I A Reddy, MBBS, MS, FRCS (Ortho); Robert John Grimer, FRCS
Royal Orthopaedic Hospital NHS Foundation Trust

10:55 am- 11:00 am

71 **Denosumab – A New Bullet In The Armamentarium For Giant Cell Tumor**
Ajay Puri, MD*; Ashish Gulia; Vivek Verma
Tata Memorial Hospital, Mumbai, India

11:15 am- 11:18 am

72 **Retrospective Evaluation Of Cartilage Tumors Of Long Bones Under Clinico-Radiological Surveillance**
Venkatesan Sampath Kumar*; Prudencia Tyrrell; Jaspreet Singh; Jonathan James Gregory; Gillian Cribb; Paul Cool
Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, Shropshire, United Kingdom SY10 7AG

11:18 am- 11:21 am

73 **Osteoarthritis Of The Hip In Fibrous Dysplasia Of The Proximal Femur**
Ilkyu Han*; Seung Bin Im; Han-Soo Kim, MD, PhD
Seoul National University Hospital



11:21 am- 11:24 am	74	Coralline Hydroxyapatite Reduces Local Recurrence Of Benign Bone Lesions Melissa Nicole Zimel, MD*; Alexandra Zindman; John H Healey, MD, FACS <i>Memorial Sloan Kettering Cancer Center</i>
11:24 am- 11:27 am	75	Risk Factors In Allogeneous Strut Graft Surgery In Fibrous Dysplasia Of The Proximal Femur. Sander Dijkstra, MD*; Bas C.J. Majoor MD; Natasha M. Appelman-Dijkstra MD; Michiel Van De Sande, MD, PhD; Nevene A.T. Hamdy MD <i>Leiden University Medical Center</i>
11:35 am- 11:40 am	76	Freezing Nitrogen Ethanol Composite (F nec), A New Effective Cryoablation Technology As An Adjuvant Modality Treatment For Giant Cell Tumor Of Bone Po-Kuei Wu*; Cheng-Fong Chen, MD; Wang Jir-You; Chen Wei-Ming <i>Taipei Veteran General Hospital</i>
11:40 am- 11:45 am	77	Role Of Bisphosphonates In Giant Cell Tumor Of Bone- A Prospective Randomized Control Study. Manoj K; Shishir Rastogi*; Shah Alam Khan; Siddharth Dubey <i>All India Institute of Medical Sciences</i>
11:45 am- 11:50 am	78	Distal Radius Giant Cell Tumor Resection And Reconstruction With Non-Vascularized Iliac Crest Graft Wrist Arthrodesis Chung Chan, MBBS; Tao Wang MD*; Chung Ming Chan, MBBS; Feng Yu MD; Yuan Li MD; Xiaohui Niu, MD <i>Department of Orthopedic Oncology, Beijing Ji Shui Tan Hospital, Peking University, Beijing, People's Republic of China</i>
11:50 am- 11:55 am	79	Treatment Of Aneurysmatic Bone Cysts Johan Pot*; Sander Dijkstra, MD; Michiel Van De Sande, MD, PhD <i>LUMC Leiden</i>

FRIDAY OCTOBER 9, 2015

9:00 am-12:00 pm

ISOLS PRESIDENTIAL SPEAKER • Pietro Ruggieri
Moderators for Session 7:
Doug Letson; Valarae Lewi

9:00 am- 9:05 am	80	Complications And Outcome After Surgical Treatment Of Pelvic Sarcomas – Does Competing Risk Add To Treatment Considerations? Reinhard Windhager, MD*; Puchner Stephan, MD; Philipp Theodor Funovics, MD; Alexandra Kaider, MSc; Madeleine Willegger; Christoph Stihsen; Gerhard Martin Hobusch, MD; Joannis Panotopoulos <i>Department of Orthopaedics, Medical University of Vienna</i>
9:05 am- 9:10 am	81	Morbidity, Mortality And Blood Loss Associated With Pelvic And Sacral Tumour Surgery Richard Shellard; Tom Neal, MBChB; Czar Louie Gaston, MD; Robert John Grimer, FRCS; Lee Jeys, FRCS <i>Royal Orthopaedic Hospital, Birmingham, UK</i>
9:10 am- 9:15 am	82	Resection Of The Acetabulum And Pelvis: Should We Still Offer Reconstructive Options? Joseph Benevenia, MD*; Francis Robert Patterson, MD; Kathleen S Beebe, MD; Steven Rivero, MD <i>Rutgers New Jersey Medical School</i>
9:15 am- 9:20 am	83	Functional Outcome Following “No Reconstruction” In Patients Undergoing Periacetabular (Type-II) Pelvic Resection Shah Alam Khan, MS, DNB, MRCSed, FRCS, M.Ch.Orth* <i>All India Institute of Medical Sciences, New Delhi, India</i>
9:20 am- 9:25 am	84	Male And Female Sexual Dysfunction Following Pelvic Tumor Surgery--Sexual Dysfunction Following Pelvis Surgery Ernest U. Conrad III, MD*; Yi Guo, MD; Stephanie Punt, BS <i>University of Washington, Seattle, WA</i>
9:40 am- 9:43 am	85	Intrapelvic And Lumbopelvic Reconstruction Outcomes After Acetabulum-Sparing Tumor Resections Bugra Alpan; Harzem Ozger*; Ahmet Salduz, MD; Turgut Akgul, MD; Fatih Dikici <i>Istanbul University-Istanbul Faculty of Medicine-Dept. of Orthopaedics and Traumatology</i>
9:43 am- 9:46 am	86	Functional Outcome Following Total Sacrectomies Without Spino-Pelvic Reconstruction Piya Kiatisevi*; Chaiwat Piyaskulkaew; Sombat Kunakornsawat; Bhasanan Sukanthanak <i>Orthopaedic Oncology Service, Institute of Orthopaedic, Lersdin Hospital, Bangkok, Thailand</i>

9:46 am- 9:49 am	87	En Block Spondilectomies For Malignant Neoplasms In Children: Review Of 18 Cases Alessandro Luzzati*; Marco Alloisio; Scotto Gennaro; Sergio Sessa <i>Istituto Ortopedico Galeazzi</i>
------------------	----	---

10:30 am-11:25 pm

Moderators for Session 7 continued:
Davide Donati; Pete Rose

10:30 am- 10:35 am	88	Sacral Chordoma: A Clinical Review Of 157 Cases With 30-Year Experience In A Single Institute Xin Sun*; Francis J Horniczek, MD <i>Massachusetts General Hospital</i>
10:35 am- 10:40 am	89	Conditional Survival And Functional Outcome Following Surgical Treatment For Sacral Chordoma: A Monocentric Retrospective Review Of 115 Consecutive Cases Tao Ji, MD*; Wei Guo, MD, PhD; Xiaodong Tang; Yi Yang, MD <i>Musculoskeletal Tumor Center, People's Hospital, Peking University</i>
10:40 am- 10:45 am	90	Surgical Strategies In Patients With Spinal Giant Cell Tumor: Twelve-Year'S Clinical Experience And Outcomes Wei Guo, MD, PhD; Xin Sun*; Rongli Yang; Xiaodong Tang <i>Musculoskeletal Tumor Center, Peking University People's Hospital, Beijing, China, 100044</i>
10:45 am- 10:50 am	91	Limb Lengthening After Internal Hemipelvectomy With The Fitbone-System Rainer Baumgart, MD* <i>ZEM-Germany Limb Lengthening Center Munich</i>
11:05 am- 11:08 am	92	Intra-Aortic Balloon Occlusion To Prevent Bleeding In Pelvic Tumours: A Case Control Study Michele Boffano, MD*; Valentina Rastellino; Stefano Marone; Ugo Albertini; Valter Verna; Maurizio Berardino; Raimondo Piana <i>AOU Città della Salute e della Scienza, Torino, Italy</i>
11:08 am- 11:11 am	93	Giant Cell Tumor Of The Sacrum Treated With Conservative Surgery: 35 Years' Experience Chandhanarat Chandhanayingyong, MD*; John H. Healey, MD, FACS; Patrick J. Boland, MD <i>Memorial Sloan Kettering Cancer Center</i>
11:11 am- 11:14 am	94	Microwave Ablation Of Pelvic Malignant Bone Tumors Qingyu Fan*; Yong Zhou; Minghua Zhang; Baoan Ma; Tongtao Yang; Hua Long; Zhe Yu; Lianhe Zheng; Zhao Li, MD <i>Department of Orthopedic Surgery, Tangdu Hospital, Fourth Military Medical University</i>

11:25 am-11:50 am

INTRODUCTION TO SOFT TISSUE SARCOMAS • Edward Cheng
Moderators for Session 8:
Hiroyuki Tsuchiya; Gregory Domson

11:35 am- 11:40 am	95	The Effect Of Surgical Margins On Local Recurrence And Survival After Resection Of High-Grade Soft Tissue Sarcomas Of The Extremities: Through The Eyes Of A Multi-State Model. Michiel Van De Sande, MD, PHD*; Julie J. Willeumier; Anja Rueten-Budde; PD Sander Dijkstra MD, PhD; Lee Jeys, FRCS; Minna Laitinen, MD; Rob Pollock, FRCS; William Aston, FRCS; Peter Ferguson, MD; Anthony M. Griffin, MSc; Jay Wunder, MD; Marta Fiocco, PhD <i>Leiden University Medical Center</i>
11:35 am- 11:40 am	96	Clinical Outcomes Of Unplanned Soft Tissue Sarcoma Excision In Comparison With Primary Planned Excision At Sarcoma Center; The Impact Of Residual Tumor In Re-Excision Specimen Jungo Imanishi*; Chris Charoenlap, MD; Samuel Ngan; John Slavin; Sarat Chander; Takaaki Tanaka, MD, PhD; Michelle Maree Dowsey, PhD; Chatar Goyal, MD; Peter Choong, MB, BS, MD, FRACS <i>St. Vincent's Hospital, Melbourne and Peter MacCallum Cancer Centre, East Melbourne</i>
11:45 am- 11:50 am	97	Locally Recurrent Soft Tissue Sarcoma: Outcomes With Re-Irradiation And/Or Surgical Excision Anthony M. Griffin, MSc*; Colleen I Dickie MSc; Peter W. Chung MD; Peter Ferguson, MD; Jay Wunder, MD; Brian O'Sullivan MD; Charles Catton, MD <i>Mount Sinai Hospital</i>



1:00 pm-2:05 pm		Moderators for Session 8 continued: Hiroyuki Tsuchiya; Gregory Domson	
1:00 pm- 1:05 pm	98	Treatment Of Sarcoma Lung Metastases With External Beam Radiotherapy: Experience At A Tertiary Referral Center Adam Lindsay*; Edward Haupt, MD; Mark Thomas Scarborough, MD; Andre R do Valle Spiguel, MD; Chung Ming Chan, MBBS; Robert A. Zlotecki, MD; C. Parker Gibbs Jr, MD; Melissa Marie Peters, MD <i>University of Florida</i>	
1:05 pm- 1:10 pm	99	What Is The Significance Of A Fungating Soft Tissue Sarcoma? Michael Parry, FRCS (ORTHO), MD*; Subin Sugath Jr; Hazem Wafa, MD; Czar Louie Gaston, MD; Lee Jeys, FRCS; Robert John Grimer, FRCS <i>Royal Orthopaedic Hospital, Birmingham, UK</i>	
1:10 pm- 1:15 pm	100	Fdg Pet-Ct Response After Neoadjuvant Chemotherapy Continues To Predict Progression Free Survival At Mid-Term In Prospective Trial For Soft Tissue Sarcomas Edward Y Cheng, MD*; Juan C. Manivel, MD; Jerry Froelich MD; Brenda Weigel; Keith M. Skubitz MD <i>University of Minnesota</i>	
1:15 pm- 1:20 pm	101	Brachy Vac Treatment Of Superficial Malignancies- Results Of A Consecutive Case Series Richard Louis McGough, MD*; Mark A. Goodman, MD; Kurt Richard Weiss, MD <i>University of Pittsburgh</i>	
1:20 pm- 1:25 pm	102	Retrospective Review Of The Adequacy Of Community Magnetic Resonance Imaging (Mri) For Soft Tissue Sarcoma In The Periphery David M. Joyce, MD*; Tyag Patel, BS; Jamie T. Caracciolo, MD, MBA; G. Douglas Letson, MD <i>Moffitt Cancer Center</i>	
1:40 pm- 1:43 pm	103	Vancomycin Powder Reduces Risk Of Wound Complication In Orthopaedic Tumor Surgery John Alexander Abraham, MD; Christina J. Gutowski, MD*; Kristin Strogus; Bridget Sayde; Kirsten Ross, BS <i>Thomas Jefferson University Hospital</i>	
1:43 pm- 1:46 pm	104	Myxofibrosarcoma: A Difficult-To Treat Soft Tissue Sarcoma - Considerations After 85 Patients Daniel Andreas Müller, MD; Giovanni Beltrami, MD*; Guido Scoccianti; Rodolfo Capanna, MD <i>Orthopaedic Oncology Unit, Careggi University Hospital, Florence, Italy</i>	
1:46 pm- 1:49 pm	105	Intraoperative Differentiation During Soft Tissue Sarcoma Excision Using Near Infrared Autofluorescence Spectroscopy John Q Nguyen*; Zain Sherali Gowani, BA; Maggie E. O'Connor; Isaac J. Pence BE, MS; The-Quyen Nguyen, PhD; Anita Mahadevan-Jansen PhD; Ginger E Holt, MD <i>Vanderbilt University</i>	
1:49 pm- 1:52 pm	106	The Influence Of Diabetes, Obesity & Anatomic Location On The Development Of Post-Operative Wound Infections Following Soft Tissue Sarcoma Resection: A Multi-Institutional Study Jeremy White, MD*; Julie Stoner, PhD; Michael Cassidy Maxted, MD; Benjamin J. Miller, MD; Raffi Stephen Avedian, MD; Tessa Balach, MD; David Daniel Greenberg, MD; Lee Rodney Leddy, MD; Kevin MacDonald, MD; Rajiv Rajani, MD; Andre R do Valle Spiguel, MD <i>University of Oklahoma Health Sciences Center - Oklahoma City</i>	
1:52 pm- 1:55 pm	107	Does The Use Of Wound Vacuum Assisted Closure (Vac) Therapy Increase The Risk Of Local Recurrence After Sarcoma Excision? Phillip A Taylor, MD*; Gregory F Domson, MD <i>Virginia Commonwealth University Health System</i>	

2:15 am-5:05 pm		INTRODUCTION TO BONE SARCOMA • Jay Wunder Moderators for Session 9: Francis Hornicek; Ginger Holt	
-----------------	--	--	--

2:15 pm- 2:20 pm	108	A Novel System For The Surgical Staging Of Primary High-Grade Osteosarcoma: The Birmingham Classification Michael Parry, FRCS (ORTHO), MD; Lee Jeys, FRCS*; Chris Thorne; Vaiyapuri P. Sumathi; Robert John Grimer, FRCS <i>The Royal Orthopaedic Hospital, Birmingham, UK</i>	
------------------	-----	---	--

2:20 pm- 2:25 pm	109	Development And Validation Of A Pretreatment Prognostic Index To Predict Death And Lung Metastases For Extremity Osteosarcoma Jian Tu*; Bo Wang; Jin Wang, MD; Jingnan Shen, MD, PhD <i>Bone and Soft Tissue Tumor Center, First Affiliated Hospital of Sun Yat-Sen University, Guangzhou, China</i>	
2:25 pm- 2:30 pm	110	Post-Metastasis Survival In High-Grade Extremity Osteosarcoma: A Retrospective Analysis Of Prognostic Factors Of 126 Patients. Wanlim Kim*; Ilkyu Han, MD; Jong Seok Lee; Han-Soo Kim, MD, PhD <i>Seoul National University Hospital</i>	
2:30 pm- 2:35 pm	111	The Role Of 18F-Fdg Pet/Ct For The Detection Of Recurrent Osteosarcoma Professor Pietro Ruggieri*; Andrea Angelini, MD; Francesco Ceci, MD; Tiziano Graziani, MD; Giulia Trovarelli; Paolo Castellucci, MD <i>II Department of Orthopedics, University of Bologna, Istituto Rizzoli, Italy</i>	
2:35 pm- 2:40 pm	112	Why Can'T We All Speak The Same Language? An Analysis Of The Definition And Significance Of Margins In The Euramos-1 Trial Robert John Grimer*; R. Lor Randall, MD; Reinhard Windhager, MD; Otte Brosjö Sr, MD; Gordana Jovic, PhD; Jeremy Whelan, MBBS, MD; Stefan Bielack, MD; Neyssa Marina, MD, MS; Sigbjorn Smeland, MD; Mark Krailo; Trude Butterfass-Bahloul, DMed; Pancras C.W. Hogendoorn, PhD; Mark Lawrence Bernstein, MD; Matthew R Sydes, MSc <i>Medical Research Council, Clinical Trials Unit, University College London, United Kingdom</i>	
2:40 pm- 2:45 pm	113	The Effect Of Surgical Timing On The Outcome Of Localized Extremity Osteosarcoma Soo-Yong Lee*; Chang-Bae KONG, MD; Wonseok Song, MD, PhD; Wan Hyeong Cho; Dae-Geun Jeon, MD <i>Department of Orthopedic Surgery, Korea Cancer Center Hospital, Seoul, Korea</i>	

3:00 pm-5:05 pm		Moderators for Session 9 continued: Gerard Powell; Nick Reimer	
-----------------	--	---	--

3:30 pm- 3:35 pm	114	Osteofibrous-Dysplasia-Like-Adamantinoma And Adamantinoma: A Clinical, Radiological And Histological Analysis Of 82 Cases Michiel Van De Sande, MD, PHD; Emile M Schutgens MD*; Sander Dijkstra, MD; Rob Pollock, FRCS; Judith Bovee; Pancras C.W. Hogendoorn, PhD <i>Leiden University Medical Centre</i>	
3:35 pm- 3:40 pm	115	Prognostic Factors And Outcomes Of Dedifferentiated Chondrosarcoma – A Single Institution Experience Christopher John Matthews, MD*; Andre R. do Valle Spiguel, MD; C. Parker Gibbs Jr, MD <i>University of Florida Department of Orthopaedics and Rehabilitation</i>	
3:40 pm- 3:45 pm	116	Is Radiation Worth The Risk For Diffuse Large B-Cell Lymphoma Of Bone In The Era Of Chop-R Therapy? Nicholas Bernthal, MD*; William Mendanha; Scott D. Nelson, MD; Kamallesh Sankhala; Sant Chawla <i>UCLA</i>	
3:45 pm- 3:50 pm	117	Is Needle Biopsy Clinically Useful In Pre-Operative Grading Of Central Chondrosarcoma Of Pelvis And Long Bones? Luis Alberto Aponte-Tinao, MD; Pablo Roitman MD*; German Luis Farfalli, MD; Miguel Angel Ayerza, MD; Domingo Luis Muscolo, MD; Federico Edgardo Milano, BS <i>Italian Hospital of Buenos Aires</i>	
4:00 pm- 4:03 pm	118	Is Pet-Ct An Accurate Method For The Differential Diagnosis Between Chondroma And Chondrosarcoma? Reynaldo Jesus-Garcia, MD*; Akemi Osawa MD; Renee Z Filippi MD; Dan CM Viola MD; Marcos Korukian MD; Guilherme C Campos-Neto MD; Jairo Wagner MD <i>Hospital Israelita Albert Einstein - Sao Paulo - Brazil</i>	
4:03 pm- 4:06 pm	119	Tumor Necrosis: Does It Define The Need For Post Operative Radiotherapy In Ewing's Sarcoma? Ajay Puri, MD*; Ashish Gulia; Siddhartha Laskar; Saniya Carmel Crasto, BS, MBA; Nehal Khanna <i>Tata Memorial Hospital, Mumbai, India</i>	
4:06 pm- 4:09 pm	120	Periosteal Osteosarcoma; The University Of Florida Experience Chung Chan, MBBS*; Adam Douglas Lindsay, MD; John D Reith, MD; Mark Thomas Scarborough, MD; C. Parker Gibbs Jr, MD <i>University of Florida</i>	



4:09 pm- 4:12 pm	121	Adamantinoma Of The Long Bones_ A Retrospective Study Of 18 Cases Zhiping Deng, MD* <i>Department of Orthopaedic Oncology Surgery, Beijing Ji Shui Tan Hospital, Peking University, Beijing, People's Republic of China.</i>
4:13 pm- 4:15 pm	122	Survival In Mesenchymal Chondrosarcoma: 205 Cases From The Seer Database Lukas Nystrom, MD*; Brian Andrew Schneiderman, MD; Stephanie Kliethermes, PhD; Dariusz Borys <i>Department of Orthopaedic Oncology Surgery, Beijing Ji Shui Tan Hospital, Loyola University Chicago</i>
4:25 pm- 4:30 pm	123	Do We Need To Remove The Biopsy Tract In Patients Undergoing Surgery Following Neo- Adjuvant Chemotherapy For Primary Bone Tumors? Shah Alam Khan, MS, DNB, MRCSed, FRCS, M.Ch.Orth* <i>All India Institute of Medical Sciences</i>
4:30 pm- 4:35 pm	124	Patterns Of Local Recurrence And Metastatic Progression Following Treatment Of Bone Sarcomas Cara Cipriano*; Anthony M. Griffin, MSc; Peter Ferguson, MD; Jay Wunder, MD <i>Mount Sinai Hospital, University of Toronto</i>
4:36 pm- 4:40 pm	125	Ct Data Evaluation Of Proximal Femur Malignant Tumors Oleg Vyrva, MD* <i>Sytenko Institute of Spine and Joint Pathology, Kharkiv, Ukraine</i>
4:40 pm- 4:45 pm	126	Surgical Treatment Of Conventional Primary Central Chondrosarcoma Of Pelvic Bone: A Multicenter Study In 164 Patients Michael P.A. Bus; Michaël Bus, MSc; Domenico Campanacci; Jose Ignacio Albergo, MD; Andreas Leithner, MD; Michiel Van De Sande, MD, PhD; Giuseppe Caff; Jan Mettelsiefen; Rodolfo Capanna, MD; Per-Ulf Tunn; Lee Jeys, FRCS; Sander Dijkstra, MD* <i>Leiden University Medical Center</i>
4:45 pm- 4:50 pm	127	Ewing Sarcoma: Only Patients With 100% Of Necrosis After Adjuvant Chemotherapy Should Be Classified As Good Responders. Jose Ignacio Albergo, MD*; Czar Louie Gaston, MD; Lee Jeys, FRCS; Minna Laitinen, MD; Anna Darbyshire, MBBS; Vaiyapuri P. Sumathi; Michael Christopher Parry, MB, ChB, MD, FRCS (Ortho); Simon R. Carter, MD; Roger Tillman, FRCS; Adesegun Abudu, FRCS, FRCS (Ortho), MSc; Robert John Grimer, FRCS <i>Royal Orthopaedic hospital, Birmingham, UK</i>

SATURDAY OCTOBER 10, 2015

8:10 am-9:15 amINTRODUCTION TO OSTEOSARCOMA • Rick Terek
Moderators for Session 10:
Rex Hayden; Steve Ghivizzani

8:10 am-8:16 am	128	Distinct And Overlapping Genetic Changes In Osteosarcoma Across Species William Eward, MD, DVM*; Suzanne Bartholf Dewitt, DVM; Anupama Reddy; Cindy Eward DVM; Alman Benjamin MD; Brian E Brigman, MD; David Kirsch, MD, PhD; Mary-Keara Boss DVM; Jason Somarelli PhD; Sandeep Dave MD, PhD <i>Duke University</i>
8:16 am-8:22 am	129	Epigenetic Reprogramming Of Osteosarcoma Tumor Initiating Cells Alters Histologic And Metastatic Phenotype Emma Maria Viktoria Hyddmark, BS*; Padraic P. Levings; Margaret Ellen White; Ali Zarezaadeh, MD; Elham Nasri; Maria V. Guijarro, PhD; Steve Ghivizzani; C. Parker Gibbs Jr, MD <i>University of Florida</i>
8:22 am-8:28 am	130	Microscopic Tumor Emboli As One Of Important Prognostic Factors In Stage-Ii Osteosarcoma Piya Kiatisevi, MD; Science Metadilogkul*; Worapitak Thaisitti; Akarathan Jitnuyanont; Numphung Numkarunrunrote; Bhasanan Sukanthanak; Voranuch Thanakit <i>Orthopaedic Oncology Service, Institute of Orthopaedics, Lerdsin General Hospital, Bangkok, Thailand</i>



8:28 am-8:34 am	131	Three-Dimensional Drug-Screening Platform For Progression Of Osteosarcoma Micrometastases Demonstrates Heterogeneous Response To Map Chemotherapy Christopher Collier, MD*; Emily Wirtz; William Zachary Morris, MD; Patrick John Getty, MD; Edward M Greenfield, PhD <i>Case Western Reserve University</i>
8:45 am-8:51 am	132	Opportunities For Drug Repurposing In Osteosarcoma: A Screen Of Fda-Approved Oncology Drugs In A Micrometastatic Model Of Disease Christopher Collier, MD*; Patrick John Getty, MD; Edward M. Greenfield, PhD <i>Case Western Reserve University</i>
8:51 am-8:57 am	133	Hypomethylation Of Irf1 A Poor Marker In Circulating Tumor Dna And Drives Osteosarcoma Metastasis Via Cxcl4/Nf-Kb Upregulation Jin Wang*; Jingnan Shen; Jinchang Lu <i>Department of Musculoskeletal Oncology, the First Affiliated Hospital of Sun Yat-Sen University, Guangzhou, Guangdong, China</i>
8:57 am-9:04 am	134	Intra-Tumoral Heterogeneity In Osteosarcoma And Its Therapeutic Implications Padraic P. Levings, PHD, BS*; Elham Nasri MD; Emma Maria Viktoria Hyddmark, BS; Ali Zarezaadeh, MD; Steven Ghivizzani BS, Ph.D.; Parker Gibbs BA, MD <i>University of Florida</i>

10:45 am-10:55 amINTRODUCTION TO METASTATIC DISEASE • Tim Damron
Moderators for Session 11:
Patrick Lin; Laura Campanacci

10:55 am-11:00 am	135	A Health Services Comparison Of Surgery Followed By Radiation Therapy Versus Radiation Therapy Alone For Patients With Metastatic Epidural Spinal Cord Compression Justin E Bird, MD*; Jinhai Huo MD, PhD, MSPH; Sharon Giordano MD, PhD; Beverly A. Guadagnolo MD, PhD <i>The University of Texas MD Anderson Cancer Center</i>
11:00 am-11:05 am	136	Surgical Failure And Disease Progression In A New Era Of Metastatic Skeletal Disease Elizabeth Scott*; Will Eward, DVM, MD; Mitchell Robert Klement, MD; Brian E. Brigman, MD <i>Duke University Medical Center</i>
11:05 am-11:10 am	137	Prognostic Factors In Breast Carcinoma Patients With Metastatic Disease In The Peripheral Skeleton Jonathan Daniel Stevenson*; Mark McNair; Gillian Cribb; Paul Cool <i>Robert Jones & Agnes Hunt Orthopaedic Hospital, Oswestry</i>
11:10 am-11:15 am	138	Prognostication Of Survival In Patients Who Underwent Operative Treatment Of Metastatic Spine Disease Nuno Rui Cools Paulino Pereira, MD, MSC*; Stein Jasper Janssen, MD; Eva van Dijk; Francis J Hornicek, MD; Marco Ferrone, MD, FRCSC; Joseph Hasbrouck Schwab, MD <i>Massachusetts General Hospital</i>
11:25 am-11:28 am	139	Prophylactic Fixation Of Impending Pathologic Fractures: In-Hospital Cost And Complication Analysis As Compared To Acute Fracture Fixation Nicole Kellan Behnke, MD*; Thomas Niemeier, MD; Dustin Kyle Baker, BS; Reaves Monroe Crabtree Jr, BA; Brent A. Ponce, MD <i>The University of Alabama at Birmingham</i>
11:29 am-11:31 am	140	Assessing Physical Function In Patients With Lower Extremity Bone Metastases Stein Jasper Janssen, MD*; Nuno Rui Cools Paulino Pereira, MD; Kevin A Raskin, MD; Marco Ferrone, MD, FRCSC; Francis J Hornicek, MD; Santiago A Lozano-Calderon, MD, PhD; Joseph Hasbrouck Schwab, MD <i>Massachusetts General Hospital</i>
11:32 am-11:34 am	141	Thromboembolic Disease In Metastatic Femoral Lesions: A Comparison Between Prophylactic Fixation Versus Fixation After Pathological Fracture Arun Aneja*; Jimmy Jiang MD; Anna Cohen-Rosenblum MD; Rex Haydon, MD; Terrance D. Peabody, MD; Hue H Luu, MD <i>University of Chicago</i>
11:34 am-11:37 am	142	A Simple Model To Predict Survival In Patients With Metastases Of The Long Bones: The Bollen Model Sander Dijkstra; Julie J. Willeumier; Yvette Van Der Linden, MD, PhD; Laurens Bollen; Sander Dijkstra, MD* <i>Leiden University Medical Center</i>