2019 MSTS Annual Meeting Preliminary Program

October 2-4, 2019 Marriott Portland Downtown Waterfront Hotel Portland, Oregon

James B. Hayden, MD, Program Chair Yee-Chen Doung, MD, Co-Chair R. Lor Randall, MD, FACS, MSTS President

Educational Goals and Objectives

At the conclusion of this CME activity, the attendee should be able to:

Understand current trends in cancer research and treatment.

Review principles of Limb Salvage surgery.

Update understanding of the pathophysiology of metastatic bone disease.

Review overall management and operative approach to pelvic bone metastases.

Increase understanding of musculoskeletal treatment needs for adolescents and young adult cancer patients.

Update on basic science research in musculoskeletal oncology.

Identify current and future applications of Quality of Life assessments and patient reported outcomes.

Wednesday, October 2, 2019				
1:00 PM - 6:30 PM	Registration			
1:00 PM - 5:00 PM	Poster Set Up			
1:00 PM - 5:00 PM	Technical Exhibit Booth Set Up			
3:00 PM - 6:00 PM	MORI/MSTS Young Member Session			
6:30 PM - 8:30 PM	Welcome Reception - Mt Hood Room - Marriott Portland Do	wntown Waterfront Hotel		
Thursday, October 3, 2	Thursday, October 3, 2019			
6:30 AM - 5:30 PM	Registration			
7:00 AM - 8:30 AM	Breakfast			
7:00 AM - 5:30 PM	Poster/Technical Exhibits			
7:30 AM	Introduction and Welcome	James Hayden, MD and R. Lor Randall, MD, FACS		
Session I: Registry	·			

Moderators: TBD			
		Surveillance After Extremity Tumor Surgery	
8:00 AM - 8:05 AM	Paper 1	(Safety) Patient Survey: A Patient Centered Approach To The Development Of An International Rct	Michelle Ghert, MD
6.00 AW - 6.05 AW	гарегі	Update On The American Academy Of	IMICHERE GREEK, MID
		Orthopaedic Surgeons Musculoskeletal	
8:05 AM - 8:10 AM	Paper 2	Tumor Registry	Benjamin J. Miller, MD, MS
		Affordable Care Act And Insurance Coverage In Orthopaedic Oncology: An Analysis Of The	
8:10 AM - 8:15 AM	Paper 3	Seer Database	Azeem Tariq Malik, MBBS
8:15 AM - 8:25 AM		Moderated Discussion	
Session II: Soft Tiss	sue Sarcoma		
Moderators: TBD			
8:25 AM -8:30 AM	Paper 4	Outcome After Surgical Treatment Of Dermatofibrosarcoma Protuberans (Dfsp): Does It Requires All This Follow Up? How Much Resection Margin Is Enough?	Ibrahim S Alshaygy, MD, MSC
8:30 AM - 8:35 AM	Paper 5	Interval Between Preoperative Radiation And Surgery Is Not Associated With Overall Survival For Soft Tissue Sarcomas: An Analysis Of The National Cancer Database	Christopher Collier, MD
8:35 AM - 8:40 AM	Paper 6	Metastatic Bone Disease At Diagnosis In Extremity Soft-Tissue Sarcomas: Risk Factors And Survival Analysis Using The Seer Registry	Manaf H.S. Younis, MD, MPH
8:40 AM - 8:50 AM	1 450. 0	Moderated Discussion	mana
8:50 AM - 8:55 AM	Paper 7	Early Outcomes Of Preoperative 5-Fraction Radiation Therapy For Soft Tissue Sarcoma With Immediate Resection	Joshua Michael Lawrenz, MD
8:55 AM - 9:00 AM	Paper 8	Improved Survivorship Following Surgical Resection Of The Primary Tumor In Patients With Metastatic Soft Tissue Sarcoma	Sophia A. Traven, MD

	1		1
		Neoadjuvant Combination Immunotherapy / Radiation For High-Risk Soft Tissue Sarcoma	
9:00 AM - 9:05 AM		(Nexis): Preliminary Results From An	
		Integrated Phase I/Ii, Single-Arm, Prospective	
	Paper 9	Clinical Trial	Vincent Y. Ng, MD
9:05 AM - 9:15 AM		Moderated Discussion	
		Extremity Malignant Peripheral Nerve Sheath	
		Tumor (Mpnst): A Retrospective Analysis Of	
9:15 AM - 9:20 AM	Paper 10	185 Cases From Reference Sarcoma Center	Bartek Szostakowski, MD
		Vascular Reconstruction In Sarcoma Surgery:	
		Complication, Functional And Vascular	
9:20 AM - 9:25 AM	Paper 11	Outcomes	Jean-Camille Mattei, MD
0.2071111 0.2071111	Тарогтт	Leiemungen Description Detection	,
0.05.4440.00.444	D 40	Leiomyosarcomas: Recurrence Rates Based On Tumor Depth	Flinch oth Mollings MD
9:25 AM - 9:30 AM	Paper 12	Moderated Discussion	Elizabeth Wellings, MD
9:30 AM - 9:40 AM 9:40 AM - 10:10 AM		Break	
9:40 AM - 10:10 AM 9:40 AM - 10:00 AM		Product Theater- TBD	
9:40 AM - 10:10 AM		Poster Viewing	
		i oster viewing	
Session III: Bone Tur	nors		
Moderators: TBD	_		
		Door Curried Descript Of The Drimer.	
		Does Surgical Resection Of The Primary Tumor In Patients With Metastatic	
40.40 AM 40.45 AM	Donor 12		Caphia A. Trayan MD
10:10 AM - 10:15 AM	Paper 13	Osteosarcoma Affect Survivorship	Sophia A. Traven, MD
		Age Versus Survival In Primary Bone	
		Cancers (Ewing's Sarcoma, Osteosarcoma,	
10:15 AM - 10:20 AM	Paper 14	And Chondrosarcoma)	William G Ward, MD, FACS
		Targeted Muscle Reinnervation Decreases	
		Phantom And Residual Limb Pain In	
10:20 AM - 10:25AM	Paper 15	Oncologic Amputees	John Alexander, MD
	'	Moderated Discussion	,
10:25 AM -10:35 AM			
Session IV: Surgical	Treatment		
Moderators: TBD			

10:35 AM - 10:40 AM	Paper 16	Revision Rates For Megaprostheses: A Review Of The Literature And Meta-Analysis	Jean-Camille Mattei, MD*
10:40 AM - 10:45 AM	Paper 17	Custom Stem-Sideplate Preserves At-Risk Hip Joint During Endoprosthetic Reconstruction Of The Femur	Alexander Bryant Christ, MD*
10:45 AM - 10:50 AM	Paper 18	Bushing Design And Crosslinked Polyethylene Can Favorably Improve Mechanical Survival Of Rotating Hinge Endoprostheses Around The Knee	Robert M Henshaw, MD*
10:50 AM -11:00 AM	i apei io	Moderated Discussion	Trobert Witherlandw, Wib
11:00 AM - 11:05 AM	Paper 19	Intercalary Endoprosthetic Reconstruction: An Analysis Of Complications	Joseph Benevenia, MD
11:05 AM - 11:10 AM	Paper 20	Comparison Of Reconstructive Techniques Following Oncologic Intraarticular Resection Of Proximal Humerus	Matthew Thomas Houdek, MD
11:10 AM -11:15 AM	Paper 21	Bone Preservation Following Revision Allograft Prosthetic Composite Reconstruction Of The Proximal Humerus	Taylor James Reif, BS, M*
11:15 AM -11:25 AM	•	Moderated Discussion	, ,
11:25 AM -11:30 AM	Paper 22	Comparison Of Free Vascularized Fibula Grafting To Allograft Strut Grafting To Supplement Spinal Pelvic Reconstruction For Sacral Malignancies	Matthew Thomas Houdek, MD
11:30 AM -11:35 AM	Paper 23	Outcomes Of Sacral Tumor Resection Based On The Mayo Clinic Classification System	Peter S. Rose, MD
11:35 AM -11:40 AM	Paper 24	Navigation-Assisted In Pelvic And Sacrum Resection Provides Benefit In Minimizing Bony Recurrence	David M. Joyce, MD
11:40 AM -11:50 AM		Moderated Discussion	
11:50 PM - 1:00 PM		Lunch	
11.001 101 - 1.001 101		Lulion	

44 50 004 40 40 504		Doc Lot The stee TDD	
11:50 AM - 12:10 PM		Product Theater- TBD	
12:15 PM - 12:35 PM 11:50 AM - 1:00 PM		Product Theater- TBD Poster Viewing	
Session V: Panel Disc	ussion: Add	plescents and Young Adults	
4 00 514 4 40 514		Adolescents and Young Adults (AYA) Panel Discussion	
1:00 PM - 1:40 PM		Discussion	
Session VI: Young Ad	dults		
Moderators: TBD			
1:40 PM -1:45 PM	Paper 25	Pediatric Sarcoma Patients Have Worse Physical Function But Better Peer Relationships And Depressive Symptoms Than The U.S. General Pediatric Population As Measured By Promis	Anna R Cooper, MD, MPH
1:45 PM - 1:50 PM	Paper 26	Bisphosphonate Therapy For Treating Osteonecrosis In Pediatric Leukemia Patients: A Systematic Review	Shanaz Daneshdoost
1:50 PM - 1:55 PM	Paper 27	Allograft Reconstruction Alone Has An Increased Rate Of Amputation And Worse Functional Outcome When Compared With Vascularized Fibular Reconstruction For Tibial Defects In Pediatric Patients	Amirhossein Misaghi, MD*
1:55 PM - 2:00 PM	Paper 28	Clinical Characteristics Of Masses In Pediatric Hand/Wrist	Carlos D. Pargas, MD
2:00 PM - 2:10 PM	·	Moderated Discussion	-
2:10 PM - 2:15 PM	Paper 29	Low Socioeconomic Status Predicts Metastatic Disease At Presentation In Young Patients With Ewing Sarcoma	Sophia A. Traven, MD
2:15 PM - 2:20 PM	Paper 30	The Sarcoma-Specific Quality Of Life Study (Sarc-Qol) (Phase 1): Identifying Key Domains Of Health-Related Quality Of Life In Adult Patients With Extremity Soft Tissue Sarcoma	Krista Anne Goulding, MD, FRCSC, MPH

The Sarcoma-Specific Quality Of Life Study (Phase 1): A Qualitative Study Of Psychological Functioning And Coping Styles In Adult Extremity Soft Tissue Sarcoma	
Psychological Functioning And Coping Styles	
in Addit Extremity Out 1133de Odrodna	
Patients Prints P	
2.20 PM - 2.25 PM Paper 31 Knsta Anne Goulding, MD, FRCSC, MPH	
2:25 PM - 2:35 PM Moderated Discussion	
2:35 PM - 3:05 PM Break	
2:35 PM - 2:55 PM Product Theater - TBD	
2:35 PM - 3:05 PM Poster Viewing MSTS Business Meeting - MSTS Members	
3:05 PM - 3:50 PM Only	
Session VII: Research	
Moderators: TBD	
Woderators. 100	
A Cross-Species Personalized Medicine	
Pipeline Identifies The Crm1 Export Pathway	
As A Potentially Novel Treatment For	
3:50 PM - 3:55 PM Paper 32 Osteosarcoma Alexander Leandros Lazarides, MD	
Comparison Of Cachectic And Non-Cachectic	
Sarcoma Patients Reveals Differences In The	
Notch Pathway But Similarities In Myogenesis	
3:55 PM - 4:00 PM Paper 33 Inhibition Jonathan Mandell, BS	
Systems-Wide Immunophenotyping Defines	
Distinct Malignancy-Induced Immunological	
Changes That Follow Disease Burden In An	
Immunocompetent K7m2 Orthotopic Murine	
4:00 PM - 4:05 PM Paper 34 Model Of Osteosarcoma Brock A Lindsey, MD	
4:05 PM - 4:15 PM Moderated Discussion	
Developing A Novel Spheroid Model For	
Chondrosarcoma Research And Drug	
Screening	
4:15 PM -4:20 PM Paper 35 Ruichen Ma	
Copper Levels And Aldh1a1 Expression	
Varies Between Low And Highly Metastatic	
Human Osteosarcoma Cell Lines And Human	
4:20 PM - 4:25 PM Paper 36 Samples Jonathan Mandell	

		Cell Cycle Checkpoints P16 And P21 –	
		Strong Predictors Of Clinicopathologic	
4:25 PM - 4:30 PM	Paper 37	Outcome In High-Grade Osteosarcoma	Elham Nasri, MD
4:30 PM - 4:40 PM		Moderated Discussion	
4:40 DM 4:45 DM	Danar 20	Safety And Feasibility Of The Civo Phase 0 Platform For Simultaneous Evaluation Of Multiple Drugs And Drug Combinations In The Tumor Microenvironment (Tme) Of Cancer Patients	Kenneth Gundle, MD
4:40 PM - 4:45 PM	Paper 38		Refilletti Gulidie, MD
4:45 PM - 4:50 PM	Paper 39	Mitigation Of Post-Radiation Muscle Fibrosis Using Tgf-Beta	Carol D Morris, MD, MS
		Treatment Of Soft Tissue Sarcoma With A	
4:50 PM - 4:55 PM	Paper 40	Novel Cold Plasma Jet	Alan T. Blank, MD, MS
4:55 PM - 5:05 PM		Moderated Discussion	
Session VIII: Miscel	laneous		
Moderators: TBD			
5:05 PM - 5:10 PM	Paper 41	The Downstream Revenue Impact Of A Dedicated Orthopaedic Oncologist	Zeke Walton, MD
5:10 PM - 5:15 PM	Paper 42	Are We Training Too Many Orthopaedic Oncologists?	Frank Chiarappa, MD
5:15 PM - 5:20 PM	Paper 43	Statistical Fragility Of Surgical And Procedural Clinical Trials In Orthopedic Oncology As Quantified By The Fragility Index: A Systematic Review	Eugene Jang, MD, MS
5:20 PM - 5:30 PM		Moderated Discussion	
5:30 PM		Meeting Adjourns	
	Social Event	- Portland World Trade Center	
Friday, October 4, 2	019		
6:30 AM- 8:30 AM	Registration		
7:00 AM - 8:30 AM	Breakfast		
7:00 AM - 11:45 AM	I Dantara / Tank	nical Exhibits	

Session IX: Metastatic Moderators: TBD				
7:35AM - 7:40 AM	Paper 45	Survival In Patients With Carcinomas Presenting With Bone Metastasis At Diagnosis: A Seer Population-Based Cohort Study	Manaf H.S. Younis, MD, MPH	
7:40 AM - 7:45 AM 7:45 AM - 7:55 AM	Paper 46	Survival After Surgery For Skeletal Metastases Is Associated With Preoperative Patient-Reported Assessments Moderated Discussion	Meredith Bartelstein, MD	
7:55 AM - 8:00 AM	Paper 47	Multicenter Retrospective Comparison Of Failure Rates, Outcomes And Complications Between Plate And Nail Fixation For Metastatic Lesions Of The Humerus	James Norris, MD	
8:00 AM - 8:05 AM	Paper 48	Finite Element Fracture Predictions For Patients With Metastatic Lesions Of The Proximal Femur	Timothy A Damron, MD	
8:05 AM - 8:10 AM 8:10 AM - 8:20 AM	Paper 49	Can We Do Better Than Mirels In Predicting Fracture Risk For Patients With Multiple Myeloma? Evaluation Of A Novel Scoring System Moderated Discussion	Gregory Toci, BS	
8:20 AM - 8:25 AM	Paper 50	The Use Of Arthroplasty When Treating Proximal Femur Metastatic Lesions Is Associated With Increased Patient Survival When Compared To Intramedullary Nailing In The Va Healthcare System	Kenneth Gundle, MD	
8:25 AM - 8:30 AM	Paper 51	Beyond Bisphosphonates And Denosumab To Protect Bone From Cancer-Induced Bone Loss: Mechanism-Based Therapeutic Targets	Francis Young Lee, MD, PhD	

		Does Nailing Of Pathologic Fractures	
8:30 AM - 8:35 AM	Paper 52	Increase Systemic Tumor Burden?	Carol D Morris, MD, MS
8:35 AM - 8:45 AM		Moderator Discussion	
8:45 AM - 9:45 AM		Presidential Guest Lecturer - Topic Title TBD	Theresa Guise, MD
9:45 AM - 10:15 AM		Break	
9:45 AM - 10:05 AM		Product Theater - TBD	
9:45 AM - 10:15 AM		Poster Viewing	
10:15 AM - 10:20 AM	Paper 53	Comparative Efficacy Of Receptor Tyrosine Kinase Inhibitors (Rtkis) And Immunotherapy (Anti-Pd-1/Pd-L1) For Treatment Of Osseous Versus Soft Tissue Metastases In Metastatic Renal Cell Carcinoma (Mrcc)	Katherine Tai
10:20 AM - 10:25 AM	Paper 54	Mutation Status And Treatment With Tyrosine Kinase Inhibitors Improves Survival Estimates In Patients With Metastatic Non-Small Cell Lung Cancer	Jonathan Agner Forsberg, MD, PHD
10:25 AM - 10:30 AM	Paper 55	Reamed Versus Unreamed Intramedullary Nailing For The Treatment Of Impending And Pathological Humeral Shaft Fractures: A Retrospective Comparative Study	Manaf H.S. Younis, MD, MPH
10:30 AM - 10:35 AM		Moderator Discussion	, ,
10:35 AM - 10:40 AM	Paper 56	Comparison Of Porous Tantalum Acetabular Implants Versus Harrington Reconstruction For Metastatic Disease Of The Acetabulum	Joshua Johnson, MD
10:40 AM - 10:45 AM	Paper 57	A Novel Percutaneous Osseous Pathway Screw Fixation Technique For Management Of Periacetabular Metastatic Disease	Sahitya Denduluri, MD
10:45 AM - 10:50 AM 10:50 AM - 11:00 AM	Paper 58	Ambulatory Minimally Invasive Image-Guided Ablation-Osteoplasty-Reinforcement-Internal Fixation (Aorif) Reconstruction For Osteolytic Metastatic Cancers In Weight Bearing Bones Moderated Discussion	Francis Young Lee, MD, PhD

11:00 AM - 11:05 AM	Paper 59	Pexidartinib For Locally Advanced Tenosynovial Giant Cell Tumor (Tgct): Overall Long-Term Pooled Efficacy And Safety With Characterization Of Hepatic Adverse Reactions (Ars) From Enliven And Other Studies	John H Healey, MD, FACS
11:05 PM - 11:10 AM	Paper 60	Pvns Of The Knee: A Consecutive Series Of 54 Patients Treated Either Arthroscopically Or With Open Synovectomy	Jennifer Thomson
		Retrospective Review Of Venous Thromboembolism Prophylaxis In Surgical Resection Of Benign And Malignant Tumors	
	Paper 61	Of Bone And Soft Tissue Moderated Discussion	Peter Kyriakides
11:15 AM - 11:25 AM		!	
Session X: Panel Disc	ussion: Tea	ch the Teacher	
11:30 AM - 12:30 PM		Teach the Teacher -Panel Discussion	
12:30 PM		Meeting Adjourns	

Thank you for attending the 2019 MSTS Annual Meeting.