2025 MSTS Annual Meeting - Final Program

December 3-5, 2025 - Hyatt Regency Polanco, Mexico City

Gregory Domson, MD and Santiago Lozano Calderon, MD, PhD - Program Co-Chairs

		Rajiv Rajani, MD - MSTS President						
		Wednesday, December 3, 2025						
8:00 AM	11:00 AM	AM Perutaneous Pelvis Fution Workshop - Separate Registration Required						
12:00 PM	7:30 PM							
1:00 PM	5:00 PM	MORI Young Member Session - Separate Registration Required - Regency Ballroom A & B						
1:00 PM	6:00 PM	Exhibit Booth Set Up - Regency Ballroom C						
6:00 PM	8:00 PM	MSTS Welcome Reception - La Residencia - Hyatt Regency						
		Thursday, December 4, 2025						
Start	End							
6:30 AM	4:00 PM	Registration - Regency Ballroom A & B Foyer						
7:00 AM	8:30 AM	Breaklast - Regency Ballroom C						
8:15 AM	4:00 PM	Nurse & Allied Health Professionals Symposium - Separate Registration Required - Regency Room F						
7:00 AM	4:15 PM	E-Posters/Exhibits Open - E-Posters in the Foyer and Exhibits in Regency Ballroom C						
8:00 AM	8:10 AM	Introduction and Welcome (Rajiv Rajani, MSTS President) Session I: Soft Tissue Sarcoma - Regency Ballroom A & B						
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8:10 AM	8:15 AM	Paper 1 Clinical Research - Incisional Negative Pressure Wound Therapy for Preoperatively Irradiated Pelvis and Lower Extremity Soft Tissue Sarcoma Wounds. A Prospective, Randomized, Multicenter Pilot Trial (Lee R. Leddy, MD, MsCR)						
8:15 AM	8:20 AM	Paper 2 Clinical Research - Proteomic Liquid Biops and Digital Molecular Barcodes - Providing New Insights into Soft Tissue Sarcoma Treatment with Immunolight Cancer Therapy (William Eward, MD, DVM)						
8:20 AM	8:25 AM	Paper 3 Clinical Research - Surgical Outcomes Following Tumor Bed Excision in Patients Undergoing Unplanned Excision of Soft Tissue Sarcoma (Jacob Jahn, BS)						
8:25 AM	8:30 AM	Paper 4 Clinical Research - Marginal Excision of Extremity Dedifferentiated Liposarcoma Without Radiation May Be Safe in Select Patients (Juan Barriga, MD)						
8:30 AM	8:35 AM	Paper 5 Clinical Research - Prognostic Relevance of Tumor Location in Myxoid Liposarcoma: Favorable Outcomes with Intramuscular Lesions (Ilkyu Han, MD, PhD)						
8:35 AM	8:45 AM	Q&A						
		Moderators: Adam S. Levin, MD and Alexandra K. Callan, MD						
8:45 AM	8:50 AM	Paper 6 Registry/Database - Lymph Node Metastases in Soft Tissue Sarcoma: A Comparative Analysis of the SEER and NCDB databases (Sarah E. Ballatori, MD)						
8:50 AM	8:55 AM	Paper 7 Clinical Research - Does Chemotherapy Improve Survival for Patients with Synovial Sarcoma? (Emily Peairs, MD)						
8:55 AM	9:00 AM	Paper 8 Registry/Database - Neoadjuvant Chemotherapy is Associated with Reduced Amputation Risk in Synovial Sarcoma of the Lower Extremity (Charlotte F. Wahle, BA)						
9:00 AM 9:05 AM	9:05 AM 9:10 AM	Paper 9 Clinical Research -Deep Learning and Dimensionality Reduction for Sarcoma Subtyping (Jay Swayambunathan) Paper 10 Clinical Experience - Levels of Circulating Tumor DNA (ctDNA) Correlate with Disease Status in Patients with Soft Tissue Sarcomas: A Pilot Study (Tae Won B. Kim, MD)						
9:10 AM	9:20 AM	raper to jointed Experience *Levers of criculating futino blev (clover) correlate with disease status in ratients with Soft resources. A Prior study (fae world. Nath, wito) 08A						
9:20 AM	9:25 AM	Transition Time						
9:25 AM	9:45 AM	Product Theater #1 - Onkos Surgical - No CME Credit - Regency Room G						
9:25 AM	9:45 AM	Break / E-Poster Viewing - Break in Regency Ballroom C and E-Posters in the Foyer						
9:45 AM	9:50 AM	Transition Time						
		Session II: Trials in Musculoskeletal Oncology - Regency Ballroom A & B						
		Moderators: Benjamin J. Miller, MD, MS and Alysia Kemp, MD						
9:50 AM	9:55 AM	Paper 11 Clinical Research - Long-Term Efficacy and Safety of Vimseltinib in Patients with Tenosynovial Giant Cell Tumor (TGCT): 2-Year Results from the MOTION Phase 3 Trial (R. Lor Randall, MD, FACS)						
9:55 AM	10:00 AM	Paper 12 Clinical Research - The Surveillance After Extremity Tumor Surgery (SAFETY) International Multi-Center Randomized Controlled Trial (Michelle Ghert, MD, FRCSC)						
10:00 AM	10:05 AM	Paper 13 Clinical Research - Enrollment Challenges to a Randomized Controlled Trial Supporting Mental Health in Patients with Sarcoma (Meredith Bartelstein, MD) Clinical Research - Development of Explainable Machine-Learning Models to Identify Patients at Risk for One-Year Mortality and New Distant Metastases Post-Endoprosthetic Reconstruction for Lower Extremity Bone Tumors: A Secondary Analysis of the PARITY Trial (Anthony Bozzo, MD, MSc,						
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7:00 AM - 8:30 AM		Registration - Regency Ballroom A & B Foyer Breakfast / E-Poster Viewing - Breakfast in Regency Ballroom C and E-Posters in Foyer		6:30 AM - 8:30 AM 7:00 AM - 8:30 AM				
7:00 AM - 12:00 PM		Breakfast / E-Poster Viewing - Breakfast in Regency Ballroom C and E-Posters in Foyer E-Posters/Exhibits Open - E-Posters in Foyer and Exhibits in Regency Ballroom C		7:00 AM - 8:30 AM 7:00 AM - 12:00 PM		Breakfast / E-Poster Viewing - Breakfast in Regency Ballroom C and E-Posters in Foyer E-Posters/Exhibits Open - E-Posters in Foyer and Exhibits in Regency Ballroom C		
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		Session V	/I-A: Chondrosarcoma - Regency Ballroom A & B	i		Session VI-B: Genetics and Basic Science - Regency Room E		
		Moderators: Julia D. Visgauss, MD and Lukas M. Nystrom, MD				Moderators: Kurt R. Weiss, MD and Francis Lee, MD, PhD		
8:05 AM	8:10 AM	Paper 31	Clinical Research - The Prognostic Value of the Modified Glasgow Prognostic Score in the Management of Patients with Chondrosarcoma: A Multicentre Study (Sanjay Gupta)	8:05 AM	8:10 AM	Paper 65	Basic and/or Translational Research - A Multi-Institutional Archive and Deep Learning Pipeline for Quantifying Chondrosarcoma Composition (Lyla Handoklow)	
8:10 AM	8:15 AM	Paper 32	Clinical Research - IDH Mutations in Chondrosarcoma Correlate with Patient Survival in De- Differentiated but not Conventional Subtypes (Jay Swayambunathan)	8:10 AM	8:15 AM	Paper 66	Basic and/or Translational Research - Single-Cell RNA Sequencing and Proteomic Spatial Profiling Reveal Complex Tumor Microenvironment and Novel Immune Interactions in Chondrosarcoma (Aron Mebrahtu)	
8:15 AM	8:20 AM	Paper 33	Clinical Research - Income Impacts Overall but not Cause-Specific Survival in Patients with Chondrosarcoma: a Population Based Study from the SEER Database (Adrian Lin, BS)	8:15 AM	8:20 AM	Paper 67	Basic and/or Translational Research - Carboxylic Acid Functionalized Polycarbonates as Bone Cement Additives for Improved Antibiotic Delivery to Prevent Infections in Endoprosthetic Reconstructions (Zhen Chang Liang, MD)	
8:20 AM	8:25 AM	Paper 34	Clinical Research - Association of Cartilage Cap Thickness with Tumor Grade and Outcomes in Secondary Chondrosarcoma (Takashi Hirase, MD, PhD)	8:20 AM	8:25 AM	Paper 68	Basic and/or Translational Research - Investigating Macrophage Populations in Primary and Metastatic Sarcoma Samples (Maia Brown)	
8:25 AM	8:30 AM	Paper 35	Clinical Research - Demographic and Clinical Risk Factors for Lung Metastases in Chondrosarcoma: A Multi-Institutional Analysis Using TriNetX (Ameer Zaman, BS)	8:25 AM	8:30 AM	Paper 69	Clinical Experience - Mutational Analysis of Primary and Advanced Chordoma Tissue using Next- Generation Sequencing (Josh Chan)	
8:30 AM	8:40 AM	Q&A		8:30 AM	8:40 AM	Q&A		
8:40 AM	9:00 AM	MSTS Res	earch Updates and Grant Announcements - Bang H. Hoang, MD - Regency Ballroom A & B	8:40 AM	9:00 AM		MSTS Research Updates and Grant Announcements - Regency Ballroom A & B	
9:00 AM	9:05 AM	L	Transition Time	9:00 AM	9:05 AM	<u> </u>	Transition Time	
9:05 AM	9:25 AM		heater #4 - Deciphera Pharmaceuticals - No CME Credit - Regency Room G	9:05 AM	9:25 AM		ater #4 - Deciphera Pharmaceuticals - No CME Credit - Regency Room G	
9:05 AM	9:25 AM	Break / E-l	Poster Viewing - Break in Regency Ballroom C and E-Posters in the Foyer	9:05 AM	9:25 AM	Break / E-Po	ster Viewing - Break in Regency Ballroom C and E-Posters in Foyer	
9:25 AM	9:30 AM		Transition Time	9:25 AM	9:30 AM		Transition Time	
	1	Casaisa V	Concurrent Pa /II-A: Metastatic Bone Disease I - Regency Ballroom A & B	aper Sessions	1	Casaian, VIII	D. Americketian . Decrease Decrease C	
			rs: Ian English. MD and Brooke M. Crawford. MD	+			-B Amputation - Regency Room E Nicholas Arpey, MD and C. Parker Gibbs, Jr., MD	
		woderator	Clinical Research - The Proximal Femur Reconstruction or Internal Fixation for Metastases			woderators:		
9:30 AM	9:35 AM	Paper 36	(PERFORM) Randomized Controlled Trial: Protocol Development and Study Update (Michelle Ghert, MD, FRCSC)	9:30 AM	9:35 AM	Paper 70	Clinical Experience - Can We Validate the Musculoskeletal Infection Society Criteria in Patients Suspected of Infection After Transfemoral Osseointegration Surgery? (Sarah E. Rabin. MD)	
9:35 AM	9:40 AM	Paper 37	Clinical Research - Intralesional Treatment is Associated with Similar Post-Operative Outcomes to Wide Resection and Reconstruction for Renal Cell Carcinoma Long Bone Metastases (Jayanth Kashyap)	9:35 AM	9:40 AM	Paper 71	Clinical Research - Decreased Frequency of Revision Amputation with Primary Targeted Muscle Reinnervation and Regenerative Peripheral Nerve Interface Surgery (Mathangi Sridharan, MD)	
9:40 AM	9:45 AM	Paper 38	Clinical Research - Protrusio Acetabuli Radiographical Risk Model (PARRM) Predicts Progression of Periacetabular Metastases to Protrusio Acetabuli (Francis Lee, MD, PhD)	9:40 AM	9:45 AM	Paper 72	Other Research - Surgical Complications Associated with Oncologic Rotationplasty Procedures (Courtney Lavin, MD)	
9:45 AM	9:50 AM	Paper 39	Clinical Research - Minimally Invasive Percutaneous Screw Fixation for Metastatic Pelvic Lesions: Clinical Outcomes, Biomechanical Modeling, and Al-Assisted Innovation (Rui Yang, MD)	9:45 AM	9:50 AM	Paper 73	Registry/Database - Amputation Following Megaprosthesis Use in Limb Salvage (Emily Peairs, MD)	
9:50 AM	9:55 AM	Paper 40	Clinical Research - Tumoral Biomarkers Predict Pathologic Fracture Risk in Skeletal Metastases from Breast and Prostate Cancer (Brooke Crawford, MD	9:50 AM	9:55 AM	Paper 74	Basic and/or Translational Research - Biomechanical Effects of Described Variations on the Van Nes Rotationplasty (Michael A. McNamara, MD)	
9:55 AM	10:05 AM	Q&A		9:55 AM	10:05 AM	Q&A		
			Concurrent Pa	aper Sessions				
		Session VIII-A: Metastatic Bone Disease II - Regency Ballroom A & B				Session VIII-B: Pelvic Reconstruction - Regency Room E		
		Moderators: Meredith Bartelstein, MD and Juan A. Pretell, MD				Moderators:	Krista Goulding, MD, MPH and Nathan W. Mesko, MD	
10:05 AM	10:10 AM	Paper 41	Clinical Research - Long-Term Comparison of Percutaneous Focal Fixation, Intramedullary Nailing, and Hemiarthroplasty for Proximal Femur Metastases: A 10-Year Prospective Study (Francis Lee, MD. PhD)	10:05 AM	10:10 AM	Paper 75	Clinical Research - Nerve Palsy After Type II Internal Hemipelvectomy: Prevalence and Recovery (Samuel E. Broida, MD)	
10:10 AM	10:15 AM	Paper 42	Registry/Database - The "Oncologic Polytrauma": Characteristics, Outcomes, and Treatment Strategies (William Hogan, MD)	10:10 AM	10:15 AM	Paper 76	Other Research - Evaluating the Accuracy of Custom 3D-Printed Jigs in Bone Tumour Resections: A Single Centre Study (Lee Bayliss, MD)	
10:15 AM	10:20 AM	Paper 43	Clinical Research - Comparison of Reoperation and Local Recurrence Rates Between Metastasectomy, Intralesional Resection, or Stabilization Alone in the Treatment of Bone Metastases from RCC (Santiago Lozano Calderon, MD, PhD)	10:15 AM	10:20 AM	Paper 77	Other Research - 3D MAP: 3D-Printed Minimally Invasive Augmentation of the Pelvis. A Cadaveric Study of Minimally Invasive Augmentation for Periacetabular Bone Metastasis (Michae D. Leslie, MD, MSc)	
10:20 AM	10:25 AM	Paper 44	Clinical Research - Are Circulating Immune Signatures Associated with Survival Following Surgical Intervention for Bone Metastases? (Brian Greenstein, BA)	10:20 AM	10:35 AM		Invited Speaker: Pelvic Resection and Reconstruction (Lee Jeys, MD)	
10:25 AM	10:30 AM	Paper 45	Clinical Experience - What is the Incidence of Distal Femoral Disease Progression in Isolated Proximal Femur Bone Metastasis? (Ian Kevin Christman, MD)					
10:30 AM	10:45 AM	Q&A		10:35 AM	10:45 AM	Q&A		
10:45 AM	10:50 AM		Transition Time	10:45 AM	11:50 AM		Transition Time	
10:50 AM	11:10 AM	Product T	heater #5 - Daiichi Sankyo, Inc (DSI) - No CME Credit - Regency Room G	10:50 AM	11:10 AM	Product The	ater #5 Daiichi Sankyo, Inc (DSI) - No CME Credit - Regency Room G	
11:10 AM	11:15 AM		Transition Time	11:10 AM	11:15 AM		Transition Time	

			Conquerent D	anar Sagaiana							
		Concurrent Pa Session IX-A: Giant Cell Tumor of Bone - Regency Ballroom A & B				Session IX-B: Miscellaneous: ICG in Musculoskeletal Oncology - Regency Room E					
	l l		rs: Kevin A. Raskin, MD and David D. Greenberg, MD				: Raffi Avedian, MD and Mark T. Scarborough, MD				
11:15 AM	11:20 AM	Paper 46	Basic and/or Translational Research - Distinct Metabolic Signatures Predict the Biologic Behavior of Giant Cell Tumor of Bone (Devin Conway, MD, MPH)	11:15 AM	11:20 AM	Paper 78	Clinical Research - SPY Intraoperative Angiography Decreases Wound Dehiscence but not Overall Wound Complications Following Limb-Sparing Surgery for Pre-Irradiated Lower Extremity Soft Tissue Sarcoma (Benjamin J. Miller, MD, MS)				
11:20 AM	11:25 AM	Paper 47	Other Research - Impact of Peri-Operative Denosumab on Local Recurrence After Surgical Management of Giant Cell Tumors: A Meta-analysis (William Eward, MD, DVM)	11:20 AM	11:25 AM	Paper 79	Clinical Experience - Indocyanine Green-Based Fluorescence Imaging to Guide Posterior Thoracic Keystone Island Perforator Flaps Following Oncologic Resection: A Surgical Technique (Joel M. Post, DO)				
11:25 AM	11:30 AM	Paper 48	Registry/Database - Sex-Based Differences in Recurrence Risk of Giant Cell Tumors: A Retrospective Cohort Study (Christopher D. Hamad, MD)	11:25 AM	11:30 AM	Paper 80	Clinical Experience - Intraoperative Indocyanine Green Angiography May Reduce Reoperation Rates After Oncologic Pelvic Resections: A Contemporary Cohort Compared to Institutional Historical Outcomes (Christa L. LiBrizzi, MD)				
11:30 AM	11:35 AM	Paper 49	Clinical Research - Giant Cell Tumor Patient Outcomes when Treated with Subchondral Bone Grafting After Curettage (Joseph Ippolito, MD)	11:30 AM	11:35 AM	Paper 81	Clinical Experience - Bringing Tumours to Light: Indocyanine Green Fluorescence for Surgical Guidance in Sarcomas and Benign Aggressive Lesions (Frank Traub, MD)				
11:35 AM	11:45 AM	Q&A		11:35 AM	11:45 AM	Q&A					
11:45 AM	12:35 PM	Lunch /E-l	Poster Viewing - Lunch in Regency Ballroom C and E-Posters in the Foyer	11:45 AM	12:35 PM	Lunch /E-P	oster Viewing - Lunch in Regency Ballroom C and E-Posters in Foyer				
			Concurrent Pa	per Sessions		.					
			-A: Access and Health Disparities - Regency Ballroom A & B			Session X-B: Endoprosthetic Reconstruction - Regency Room E					
		Moderator	s: Rajiv Rajani, MD and Cara A. Cipriano MD, MSc			Moderators	: Matthew T. Houdek, MD and Nicholas M. Bernthal, MD				
12:35 PM	12:40 PM	Paper 50	Clinical Research - Characterizing Financial Toxicity in Survivors of Sarcoma: A Single-Institution Study (Devika Shenoy)	12:35 PM	12:40 PM	Paper 82	Clinical Research - A Multicenter Comparison of Reverse Total Shoulder Arthroplasty versus Hemiarthroplasty for Endoprosthetic Reconstruction following Oncologic Resection of the Proximal Humerus (John H. Alexander, MD)				
12:40 PM	12:45 PM	Paper 51	Clinical Research - Higher Area Deprivation Index (ADI) is Associated with Worse Five-Year Disease-Specific Survival in Localized Soft Tissue Sarcoma (Brian Benyamini)	12:40 PM	12:45 PM	Paper 83	Clinical Research - Is Tranexamic Acid Safe and Effective for Orthopaedic Oncology Patients Undergoing Endoprosthetic Reconstruction? (Stephen W. Chenard, MSc)				
12:45 PM	12:50 PM	Paper 52	Registry/Database - Socioeconomic Disparities in Access to Flap Reconstruction After Oncologic Lower Extremity Resection (Ying Yu, BA)	12:45 PM	12:50 PM	Paper 84	Clinical Research - What are the Implant Revision-Free Survival Outcomes for Patients Undergoing Custom Three-Dimensional (3D) Printed or Machined Hemipelvis Reconstruction for Massive Pelvic Defects? A Multi-Centre, International Study of 207 Patients (Krista Goulding, MD, PhD)				
12:50 PM	12:55 PM	Paper 53	Clinical Research - Patient Encounter Cards Improve Physician and Patient Engagement for New Patient Visits in Orthopaedic Oncology (Charlote F. Whale, BA)	12:50 PM	12:55 PM	Paper 85	Clinical Research - Treatment Success Rate after Surgical Management of Periprosthetic Joint Infections in Oncologic Proximal Tibia Reconstruction (Iris Skomja)				
12:55 PM	1:00 PM	Paper 54	Clinical Research - "Function is More Important than Looks!": A Qualitative Analysis of Patient Reported Outcomes on Life After Bone Cancer Surgery (Janet E. Panoch PhD)	12:55 PM	1:00 PM	Paper 86	Registry/Database - Reverse Total Shoulder Arthroplasty Demonstrates Improved Functional Outcomes and Equivocal Mid-Term Survival Compared to Hemiarthroplasty Following Oncologic Reconstruction in Proximal Humerus Replacement (Christopher D. Hamad, MD)				
1:00 PM	1:10 PM	Q&A 1:00 PM 1:10 PM Q&A									
		Session XI: SLATME I - Regency Ballroom A & B									
		Moderator	s: Marcos Galli Serrra, MD and Adriana Hernandez, MD								
1:10 PM	1:15 PM	Paper 55 Clinical Research - Association of the Nutritional Prognostic Index in the Failure of Modular Prosthesis in Orthopaedic Oncology (Miguel Angel Clara Altamirano. MD, MSc, PhD)									
1:15 PM	1:20 PM	Paper 56 Clinical Research - 99mTc-MIBI Uptake as a Predictor of Fracture Risk in the Appendicular Skeleton in Patients with Multiple Myeloma in the Instituto Nacional de Rehabilitacion "Luis Guillermo Ibarra" (Reyna Sahahi Banuelos Balderas, MD)									
1:20 PM	1:25 PM	Paper 57 Other Research - The Practice of Musculoskeletal Oncology in Latin America: Current Challenges and New Perspectives (Marcos Galli Serra, MD)									
1:25 PM	1:30 PM	Paper 58 Clinical Research - Epidemiology and Survival of Primary Bone Tumors in Mexican Patients (Ruben Eduardo Gonzales-Prieto, MD)									
1:30 PM	1:35 PM	Paper 59	Registry/Database - Giant Cell Tumor of Bone in Younger than 14 Years Old (Ricardo Becker, MD	')							
1:35 PM	1:45 PM	Q&A									
1:45 PM	2:05 PM		Poster Viewing - Break in Regency Ballroom C and E-Posters in the Foyer								
			(II: Title SLATME II - Regency Ballroom A & B								
			s: Cecilia Belzarena, MD, MPH, MBA and Carlos Cuervo Lozano, MD			. L. MD)					
2:05 PM	2:10 PM	Paper 60 Clinical Experience - Reduction of Recurrence of Aneurysmal Bone Cysts by Cryosurgery with Nitrous Oxide (Edgar Angel Poblete, MD)									
2:10 PM	2:15 PM	Paper 61 Withdrawn by Submitter									
2:15 PM	2:20 PM	Paper 62 Clinical Experience -Two-Stage Protocol for Pelvic Sarcoma Resection and Reconstruction with Custom Pelvic Prosthesis (Roberto Velez, MD)									
2:20 PM	2:25 PM										
2:25 PM	2:30 PM	Paper 64	Clinical Research - Outcomes of Metastasectomy in Patients with Solitary Bone Metastases: Expe	rience from a (ancer Center i	n водоtа, Colo	imbia (Gabriei Andres Narvaez Rodriguez, MD)				
2:30 PM	2:40 PM	Q&A Session XIII: Clinical Cases SLATME, "My Worst Case" Panel Discussion - Regency Ballroom A & B									
		Panelists: Luis Carlos Gomez Mier, MD, Francisco Linares, MD and Eduardo J. Ortz-Cruz, MD									
2:40 PM	3:05 PM		,,, , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ,								
3:05 PM	3:15 PM	Q&A									
3:15 PM	3:35 PM	Award Presentations - No CME									
3:35 PM	3:40 PM	Manual i resentations - 140 CML. Closing Remarks									
3:40 PM	0.40 i W	Coloning Vermans Meeting Adjourns									
3:40 PM	4:00 PM										
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