

45th Annual Meeting

MUSCULOSKELETAL IMAGING COURSE

September 26-28, 2018

InterContinental Berlin | Berlin, Germany | www.internationalskeletalsociety.com

MUSCULOSKELETAL IMAGING COURSE

7:00 - 8:00 7:00 - 17:00 BREAKFAST REGISTRATION/INFORMATION DESK HOURS 7:00 - 16:00 EXHIBIT HALL HOURS

MUSCULOSKELETAL DISEASE

DAY 1

WEDNESDAY, SEPTEMBER 26, 2018

COMBINED SESSION

8:00 - 8:10	INTRODUCTION, Laura Bancroft, MD, FACR
8:10 - 10:00	Opening Session: Bone Marrow Moderators: Lawrence White, MD, Michael Tuite, MD
8:10 - 8:35	Bone Marrow Changes Related to Injury: Anatomy, Pathophysiology, and Terminology <i>Donald Resnick, MD</i>
8:35 - 8:55	Bone Marrow Histopathology, for Correlation with Radiology J ulie Fanburg-Smith, MD

8:55 - 9:15	Pediatric Marrow Disorders Nancy Chauvin, MD
9:15 - 9:35	Bone Marrow Changes in Arthritis, What Are They and Why Do They Matter? <i>Frank Roemer, MD</i>
9:35 - 10:00	Bone Tumors with Prominent Marrow Edema: A Useful Sign in Differential Diagnosis Mark Murphey, MD

SPORTS MEDICINE IMAGING

10:00 - 10:30	BREAK	10:00 - 10:30	BREAK
10:30 - 12:00	Hot Topics		MSK Intervention
	Moderators: Michael Recht, MD, Patrick Omoumi, MD, PhD		Moderators: Nicolas Amoretti, MD, Antonio Barile, MD
10:30 – 10:45	AI and MSK Radiology: What is its Role?	10:30 - 10:45	PRP: What is it Good For? <i>Jon Jacobson, MD</i>
	Michael Recht, MD	10:45 - 11:00	Stem Cells: Ready for Prime Time? Stacy Smith, MD
10:45 – 11:00	New Pulse Sequences in MSK MR: What, When, and Why?	11:00 - 11:15	Can We Treat the Joint? <i>Marnix Van Holsbeeck, MD</i>
11.00 11.15	Garry Gold, MD	11:15 - 11:25	US Guided Percutaneous Treatment for Trigger Finger and
11:00 - 11:15	MSK MR Imaging: Have We Gone Overboard with Resolution and Image Quality at the Expense of		Carpal Tunnel Syndrome David Petrover, MD
	Cost and Speed? <i>Naveen Subhas, MD</i>	11:25 – 11:35	Joint and Soft Tissue Injections: US vs Fluoroscopic
11:15 - 11:30	3D Printing and vr/ar: Do They Have a Role in MSK	11 25 11 45	Guidance Georgina Allen, FRCR, MScSEM
	Imaging? Benjamin Howe, MD	11:35 - 11:45	Spine Procedures: CT vs. Flouro <i>Luca Sconfienza, MD, PhD</i>
11:30 - 11:45	Resurgence of MSK CT Kambiz Motamedi, MD	11:45 - 12:00	
11:45 - 12:00	Will Metal Artifact Reduction, Low Dose and Dual Energy	12:00 13:30	LUNCH
	Lead to a Resurgence of MSK CT Imaging?	13:30 - 15:00	
12:00 13:30	Hugue Ouellette, MD LUNCH	10100	Moderators: Laura Bancroft, MD, FACR, Klaus Bohndorf, MD
13:30 - 15:00	Imaging Sports Injury of the Elbow	13:30 - 13:45	
15.50 - 15.00	Moderators: Victor Cassar-Pullicino, MD,		Injecting and When? Kenneth Lee, MD
	Simon Ostlere, FRCR	13:45 - 14:00	Subspecialty MSK Teleradiology: Who Does it Help and
13:30 - 13:50	Mechanics and Injury of the Throwers Elbow		Hurt? Andrew Sonin, MD, FACR
	Mark Anderson, MD	14:00 - 14:15	Early Rheumatoid Arthritis: When to Use MR or US Andrea Klauser, MD
13:50 – 14:10	Biceps and Triceps, Anatomy and Pathology, Does	14.15 - 14.20	Screening for Osteoporosis: Who to Examine and How?
14.10 14.20	Knowing the Anatomy Matter? <i>David Fessel, MD</i>	14.15 - 14.50	Wilfred Peh, MD
14:10 - 14:30	Elbow Ligament Anatomy, Injury Patterns and Lesion Visualization <i>Lynne Steinbach, MD</i>	14:30 - 14:45	Follow-up After Treatment of Soft Tissue Sarcomas: How
14:30 - 14:45	Epicondylitis, Imaging Guided Diagnosis and Treatment		and How Often? Marc-André Weber, MD, MSc
11.50 11.15	Philip O'Connor, MD	14:45 - 15:00	Suspected Diabetic Foot Infections: What Imaging Affects
14:45 - 15:00	Sports Injury of the Pediatric Elbow		Management? <i>Mark Schweitzer, MD</i>
	Kathryn Stevens, MD, BS (hons)	15:00 - 15:30	
15:00 - 15:30	BREAK	15:30 - 17:00	Metabolic and Systemic - (SAM)
15:30 - 17:00	Wrist & Hand Sports Injuries: State of the Art Imaging		Moderators: Anastasia Fotiadou, MD, PhD, Alberto Bazzocchi, MD, PhD
	Moderators: Hiroshi Yoshioka, MD, PhD, Jean-Denis Laredo, MD	15:30 - 15:45	Osteoporosis: Pearls and Pitfalls <i>Giuseppe Guglielmi, MD</i>
15:30 - 15:45	MRI: State of the Art Diagnosis of Sports Injuries	15:45 - 16:00	Sarcopenia: Past, Present, and Future <i>Robert Boutin, MD</i>
15.50 - 15.45	Michael Tuite, MD		Adiposity: Musculoskeletal Implications
15:45 - 16:00	Ultrasound in Hand and Wrist Sports Diagnosis:		Miriam Bredella, MD
	Advantages, Limitations and Intervention	16:15 - 16:30	Renal Disease of Bone <i>Leon Lenchik, MD</i>
	James Teh, MBBS, MRCP, FRCR	16:30 - 16:45	Drug Induced Musculoskeletal Disorders
16:00 - 16:15	Post-op Hand and Wrist MRI in Sports		Michael Richardson, MD
1/.15 1/.20	Robert Campbell, MD	16:45 - 17:00	Atypical Infections Johnny Monu, MB, BS, MS
16:15 - 16:30	Sports Specific: Wrist Golf Injuries Bruce Forster, MD, MSc, FRCPC		
16:30 - 16:45	Sports Specific: Hand and Wrist Climbing Injuries		
	Andrea Rosskopf, MD		
16:45 - 17:00	Sports Specific: Hand and Wrist Tennis Injuries		WELCOME RECEPTION
	Jenny Bencardino, MD		18:30 – 20:30

DAY 2

THURSDAY, SEPTEMBER 27, 2018

SPORTS MEDICINE IMAGING

SPORTST	TEDICINE IMAGING	
8:00 - 10:00	Shoulder: ISS Meets DGMSR	8:00 1
0.00 10.00	Moderators: Andreas Heuck, MD, Klaus Bohndorf, MD	0.00
8:00 - 8:15	Rotator Cuff: Current Concepts in Anatomy and Classification <i>Simone Waldt, MD</i>	8:00 - 8:15 -
8:15 - 8:30	Biceps Pulley and Rotator Interval Rainer Schmitt, MD, PhD	8:30 -
8:30 - 8:45	External and Internal Impingement Syndromes Andreas Heuck, MD	8:45 -
8:45 - 9:00 9:00 - 9:15	Shoulder Instability <i>Karl-Friedrich Kreitner, MD</i> Calcific Tendinitis <i>Christian Glaser, MD</i>	9:00 -
9:15 - 9:30	Pectoralis, Latissiumus and Teres Major Marco Zanetti, MD	9:15 -
9:30 - 9:45	Sick Scapula Syndrome, Scapular Impingement and Periscapular Bursitis Christoph Schaeffeler, MD	9:30-
9:45 - 10:00	Post-Operative Shoulder <i>Reto Sutter, MD</i>	9:45 -
10:00 10:30	BREAK	10:00
10:30 - 12:00	Trauma/Stress Injuries (ARS)	10:30
	Moderators: Howard Galloway, FRANZCR,	
10.00 10.45	Thomas Pope, Jr, MD, FACR	10:30
	Upper Extremity Stress Injuries <i>Lionel Pesquer, MD</i>	10:45
10:45 - 11:00	Axial Skeleton Stress Injuries Radhesh Lalam, MBBS, MRCS, FRCR	11:00
11:00 - 11:15	Sacral Stress Fractures Mary Hochman, MD	11:15
11:15 - 11:30	Hip and Knee Stress Injuries How Did I Break	11:30 11:45
11.15 11.50	My Hip Running? <i>Mini N. Pathria, MD</i>	12:00
11:30 - 11:45	Tibia Stress Injuries in Athletes and Military Recruits <i>Nogah Shabshin, MD, MBA, BSc</i>	13:30
11:45 - 12:00	Ankle and Foot How Did I Break My Foot Sightseeing in Berlin?? <i>Daniel M. Walz, MD</i>	13:30
12:00 13:30	LUNCH	13:40
13:30 - 15:00	Muscle Injury, Edema and Beyond Moderators: Atul Taneja, MD, PhD, Mini N. Pathria, MD	13:50
13:30 - 13:45	Patterns of Muscle Abnormalities on MR Imaging <i>Robert Boutin, MD</i>	14:00
	Imaging of Muscle Trauma: Role of MR and US Michel Crema, MD	14:15
14:00 - 14:15	Marc-André Weber, MD, MSc	14:30
14:15 - 14:30	Grading of Muscle Injury: Current Concepts Steven James, MB, ChB, FRCR	14:40
14:30 - 14:45	Hee Kyung Kim, MD	14:50 15:00
14:45 - 15:00	Novel Imaging Techniques for Assessment of Muscle <i>Jim Wu, MD</i>	15:30
15:00 - 15:30		
	Core Curriculum: Sports Injuries in the Pelvis & Trunk Moderators: David Rubin, MD, Antoine Moraux, MD	15:30
15:30 - 15:45	Groin and Trunk Muscle Injuries: Imaging Approach <i>Eugene McNally, MD</i>	15:40 15:50
15:45 - 16:00	Acute Athletic Groin Injuries: Flexors and Adductors James Linklater, MBBS	16:00
16:00 - 16:15	Lateral Pelvic and IT Band Injuries <i>Miriam Bredella, MD</i>	16:10
16:15 - 16:30	Pelvic Apophyseal Injuries <i>Julia Crim, MD</i>	
16:30 - 16:45	Nerve Blocks & Injections for Pelvic Sports Injuries Jan Fritz, MD	16:20 16:30
16:45 - 17:00	Thoracic & Abdominal Wall Muscle Injuries Outside the	16:40

Groin Lawrence White, MD

MUSCULOSKELETAL DISEASE

8:00 10:00	Arthritis for Residency and Beyond Moderators: Anne Jurik, DMSc, Neils Egund, MD, DMSc
8:00 - 8:15	Hands and Feet Pitfalls for Diagnosis Anne Cotten, MD
8:15 - 8:30	What Crystals Do and What They Look Like
8:30 - 8:45	George Hermann, MD What Does MRI Tell Us About the Pathophysiology of
8:45 - 9:00	Rheumatoid Arthritis <i>Monique Reijnierse, MD, PhD</i> What Does MRI Tell Us About the Pathophysiology of
9:00 - 9:15	Osteoarthritis <i>Ali Guermazi, MD, PhD</i> Synovial Masses Presenting as Monoarthritis
9:15 - 9:30	Iris-Melanie Noebauer-Huhmann, MD CRMO, SAPHO and SCCH: Unravelling the Rheumatological
	Alphabet Soup Robert Lambert, MB, FRCPC
9:30- 9:45	MRI of the Axial Spine: When is it Spondyloarthritis and When is it Not? <i>Winston Rennie, MB, MSc(SEM), FRCR</i>
9:45 - 10:00	Sacroiliac Joint: Degenerative Versus Inflammatory Arthritis Jean-Denis Laredo, MD
10:00 - 10:30	BREAK
10:30 - 12:00	Spine Imaging (SAM) Moderators: David Wilson, FRCP, FRCR, E. Remide Arkun, MD
10:30 - 10:45	CT Spine Imaging Pitfalls Tudor Hughes, FRCR
10:45 - 11:00	MR Spine Imaging Pitfalls Marcelo De Abreu, MD
11:00 - 11:15	Imaging of Spinal Trauma D. Lee Bennett, MD, MA, MBA
11:15 - 11:30	Spine Infection Suphaneewan Jaovisidha, MD
11:30 - 11:45	
	Osteoporotic Fractures James Griffith, MB, BCh, BAO, MD
11:45 - 12:00	Degenerative Disk Disease <i>Prudencia Tyrrell, MD</i>
12:00 13:30	LUNCH
13:30 - 15:00	Rapid Fire ST Tumors (ARS)
	Moderators: Hassan Douis MD, MRCP, FRCR, Frederic LeCouvet, MD
13:30 - 13:40	What's New from the WHO Classification in Soft Tissue Tumors <i>Julie Fanburg-Smith, MD</i>
13:40 - 13:50	High Water Content Masses: When Do I Need to Worry? Mark J. Kransdorf, MD
13:50 - 14:00	Benign versus Malignant Peripheral Nerve Sheath Tumors: Radiologic Rules of the Road <i>Laura Fayad, MD</i>
14:00 - 14:15	Lipoma vs. Well-Differentiated Liposarcoma: Imaging Distinction <i>Francesca D. Beaman, MD</i>
14:15 - 14:30	Surgical Implications of Lipoma vs. Well-Differentiated Liposarcoma: What are the Options? <i>Carol D. Morris, MD, MS</i>
14:30 - 14:40	Biopsy Technique: Does it Matter Where I Biopsy? Jeffrey Peterson, MD
14:40 - 14:50	Soft Tissue Tumor Local Recurrence: Tricks of the Trade David M. Panicek, MD
14:50 - 15:00	Imaging of Synovial Neoplasms Hillary W. Garner, MD
15:00 - 15:30	BREAK
15:30 - 17:00	Rapid Fire Bone Tumors (ARS) Moderators: Violeta Vasilevska Nikodinovska MD, PhD, MSc, Paul O'Donnell, MBBS, FRCP, FRCR
15:30 - 15:40	What's New in the WHO Classification in Bone Tumors? S. Fiona Bonar, MB, FRCPath, FRCPA
15:40 - 15:50	Radiology Report for Bone Neoplasms: What's Important for Staging? <i>Leanne L. Seeger, MD, FACR</i>
15:50 - 16:00	Whole Body MRI for Tumor Imaging Koenraad Verstraete, MD
16:00 - 16:10	Enchondroma vs. Chondrosarcoma: Imaging Criteria Hakan Ilaslan, MD
16:10 - 16:20	Enchondroma vs. Chondrosarcoma: Surgical Perspective <i>Earl W. Brien, MD</i>
16:20 - 16:30	Update on Multiple Myeloma <i>Michael E. Mulligan, MD</i>
16:30 - 16:40	Imaging of Surface Bone Tumors <i>Daniel Vanel, MD</i>
16:40 - 16:50	Bone Tumor or Not That is the Dilemma <i>Rainer Erlemann, MD</i>
16:50 - 17:00	Vertebral Bone Marrow: Metastasis or Mimicker
	Andrea Baur-Melnyk, MD

DAY 3

FRIDAY, SEPTEMBER 28, 2018

SPORTS MEDICINE IMAGING

8:00 - 10:00	Knee Moderators: Ian Beggs, FRCPE, FRCR
	Andrea Rosskopf, MD
8:00 - 8:15	Bone/OCD Klaus Bohndorf, MD
8:15 - 8:30	Cruciate Ligaments Nancy Major, MD
8:30 - 8:45	Post-Op ACL Philip Robinson, FRCR
8:45 - 9:00	Menisci Andrew Grainger, BM, BS, MRCP, FRCR
9:00 - 9:15	Posterolateral Corner William Palmer, MD
9:15 - 9:30	Soft Tissue, Nerves, and Vascular Structures John Crues, MD, MS
9:30 - 9:45	Extensor Mechanism David Rubin, MD
9:45 - 10:00	Lesions About the Proximal Tibiofibular Joint <i>Josef Kramer, MD</i>
10:00 - 10:30	BREAK
10:30 - 12:00	Нір
	Moderators: Suzanne Anderson, MD, PhD Hema Choudur, MBBS, FRCPC
10:30 - 10:45	Hip Joint MRI Assessment: Pitfalls, Variation and Myths <i>Bruno Vande Berg, MD, PhD</i>
10:45 - 11:00	Pediatric Hip Imaging <i>Filip Vanhoenacker, MD, PhD</i>
11:00 - 11:15	MRI of FAI: How to Assess and What to Report Donna Blankenbaker, MD
11:15 - 11:30	Hip Surgery: How Does Imaging Help? <i>Michael Dienst, MD</i>
11:30 - 11:45	Post-op Hip MRI: Differentiating Normal from Abnormal <i>Tobias Dietrich, MD</i>
11:45 - 12:00	Hip Intervention: Its Role in Diagnosis and Treatment <i>Luca Sconfienza, MD</i>
12:00 - 13:30	LUNCH
13:30 - 15:00	Foot/Ankle: An MRI Alone Will Make the
	Diagnosis - Or Will It? Moderators: Joseph Craig, MB, ChB, Charles Bush, MD
13:30 - 13:45	Lateral Ankle Ligament Anatomy and Injuries Maryam Shahabpour, MD
13:45 - 14:00	Medial Sided Ankle Pain: Deltoid Ligament and Beyond <i>Julia Crim, MD</i>
14:00 - 14:15	Midfoot Sprains - More than Just the Lisfranc Ligament <i>Carolyn Sofka, MD</i>
14:15 - 14:30	Making a Break For It: Tendon Subluxation/Dislocation <i>Ramy Mansour, MD</i>
14:30 - 14:50	Turf Toe - Not Just for American Football Players Hilary Umans, MD
14:50 - 15:00	Ultrasound of Acute Foot and Ankle Sports Injuries

Mihra Taljanovic, MD, PhD

MUSCULOSKELETAL DISEASE

8:00 - 10:00	Imaging Orthopedic Hardware Moderators: Thomas LeCorroller, MD, PhD
	Theodore Miller, MD
8:00 - 8:15	MR Imaging of Metal: How To Do It Christian Pfirrmann, MD, MBA
8:15 - 8:30	CT Scanning of Metal: How To Do It <i>Kenneth Buckwalter, MD, MS, MBA</i>
8:30 - 9:00	Multimodality Imaging of Hip and Knee Replacements Theodore Miller, MD, FACR
9:00 - 9:20	Imaging of Shoulder Replacements Alice Ha, MD, MS
9:20 - 9:40	Imaging of Ankle Replacements Laura Bancroft, MD, FACR
9:40 - 10:00	Plates and Screws - What Do They Do? Marcelo Bordalo-Rodrigues MD, PhD
10:00 - 10:30	BREAK
10:30 - 12:00	Imaging Peripheral Nerves with Detailed Anatomy
	and Lesion Characterization
	Moderators: Mario Maas, MD, PhD
10.00 10.55	Avneesh Chhabra, MD
10:30 – 10:55	Ultrasound of the Brachial Plexus, Pathology and Technique Made Easy <i>Carlo Martinoli, MD</i>
10:55 - 11:05	MR Neurography: Current Perspectives and Literature Review Gustav Andreisek, MD, MBA
11:05 - 11:20	Peripheral Nerve Anatomy and Lesions in the Ankle and Foot <i>Jean Luc Drape, MD</i>
11:20 - 11:30	MR Neurography of Extra-Spinal Sciatica John Carrino, MD, MPH
11:30 - 11:45	Imaging Nerve Entrapment Syndromes of the Elbow and Forearm Catherine Petchprapa MD
11:45 - 12:00	Peripheral Nerve Lesions Around the Shoulder, How to Make the Imaging Diagnosis? <i>Ronald Adler, MD, PhD</i>
12:00 - 13:30	LUNCH
13:30 - 15:00	Cartilage/Bone (SAM)
	Moderators: Garry Gold, MD, Jung-Ah Choi, MD
13:30 - 13:45	Normal Cartilage Structure <i>Richard Kijowski, MD</i>
13:45 - 13:55	Fast Imaging - 5 Minute Knee MRI Soterios Gyftopolous, MD
13:55 - 14:05	Isotrophic 3D T2 Mapping <i>Patrick Omoumi, MD, PhD</i>
14:05 - 14:15	Identifying Hidden Zones of the Far Posterior Cartilage of the Femoral Condyles <i>John Crues, MD, MS</i>
14:15 - 14:30	Cartilage Repair - Microfracture Thomas Link, MD, PhD
14:30 - 14:45	Cartilage Repair - ACI Carl Winalski, MD
14:45 - 15:00	Lesions at the Osteochondral Junction Christine Chung. MD