

DAY 1 MUSCULOSKELETAL IMAGING COURSE

WEDNESDAY, SEPTEMBER 11, 2019

7:00am - 8:00am BREAKFAST
7:00am - 5:00pm REGISTRATION/INFORMATION DESK HOURS

7:00am - 4:00pm EXHIBIT HALL HOURS

COMBINED SESSION

8:00am - 8:10am INTRODUCTION *Laura Bancroft, MD, FACR*
8:10am - 10:00am OPENING SESSION: JOINT
Moderators: *Lawrence White, MD, Michael Tuite, MD*
8:10am - 8:30am Human Articulations: Symphyses, Cynchondroses, and Synovial Joints *S. Fiona Bonar, MB, FRCPath, FRCPA*
8:30am - 8:50am Synovium and Cartilage
Bruce Forster, MD, MSc, FRCPC

8:50am - 9:15am Intraarticular Menisci and Discs *Donald Resnick, MD*
9:15am - 9:35am Intraarticular Labrum *Christian Pfirrmann, MD, MBA*
9:35am - 10:00am Joint Function: Assessment with MR Imaging
Christine Chung, MD

SPORTS MEDICINE IMAGING

MUSCULOSKELETAL DISEASE

BREAK 10:00AM - 10:30AM

10:30am - 12:00pm HOT TOPICS
Moderators: *Miriam Bredella, MD, Jonathan Baker, MD*
10:30am - 10:45am Biologic Injections for Treating Muscle Injuries: Show Me the Data *Ian Beggs, FRCPE, FRCR*
10:45am - 11:00am Imaging Patients with the Female Athletic Triad
Miriam Bredella, MD
11:00am - 11:15am Injuries in Adolescent Baseball Pitchers *David Rubin, MD*
11:15am - 11:30am Imaging Evaluations after Chondrocyte Implantation
Ali Guermaz, MD, PhD
11:30am - 11:45am Core Injuries Outside of the Groin *Adam Zoga, MD*
11:45am - 12:00am Can Imaging Predict Return-to-Play in Stress Fractures?
William Palmer, MD

12:00pm - 1:30pm LUNCH
1:30pm - 3:00pm ELBOW: THE GEM OF JOINTS (ARS)
Moderators: *Julia Crim, MD, Sarah Koles, MD, MSc, BScHon*
1:30pm - 1:45pm Common Flexor and Extensor Tendon Anatomy and Pathology
Nathalie Bureau, MD, MSc
1:45pm - 2:00pm Biceps and Triceps Tendon Pathology
Anna Hirschmann, MD
2:00pm - 2:15pm Lateral Collateral Ligament Complex Instability
Yuko Kobashi, MD, PhD
2:15pm - 2:30pm Ulnar Collateral Ligament Complex Instability MRI and US *Mihra Taljanovic, MD, PhD*
2:30pm - 2:45pm Bone Abnormalities in the Skeletally Immature and Mature Elbow
Julia Crim, MD
2:45pm - 3:00pm Causes of Medial Elbow Pain and Postoperative Imaging
Martin Torriani, MD, MMSc

3:00pm - 3:30pm BREAK
3:30pm - 5:00pm HAND AND WRIST: TALK TO THE HAND
Moderators: *Ramon Gheno, MD, Nogah Shabshin, MD, MBA, BSc*
3:30pm - 3:45pm Wrist Extrinsic & Midcarpal Ligaments
Daniel M. Walz, MD
3:45pm - 4:00pm Ultrasound and MRI of Wrist Injuries
Luis Cerezal, MD, PhD
4:00pm - 4:15pm Stress Injuries of the Hand and Wrist
Howard Galloway, FRANZCR
4:15pm - 4:30pm MRI of the Carpal Tunnel and Guyon Canal *Atul Taneja*
4:30pm - 4:40pm MRI of the Fingers *Richard de Villiers, M.Med*
4:40pm - 4:50pm Postoperative Imaging of the Wrist
Catherine Petchprapa MD
4:50pm - 5:00pm Postoperative Imaging of the Fingers
Jenny Bencardino, MD

10:30am - 12:00pm WHAT'S IN AND WHAT'S OUT IN MSK INTERVENTION
Moderators: *Alberto Bazzocchi, MD, PhD, Thomas Le Corroller, MD, PhD*
10:30am - 10:45am Bone Biopsy: Tricks of the Trade *Connie Chang, MD*
10:45am - 11:00am Percutaneous Cementoplasty interventions: An update
Paul Mallinson, MBChB, FRCR, FRCPC
11:00am - 11:20am US Guided Injectables: What Does What?
Emma Rowbotham, BSc, MB, Bchir, FRCR
11:20am - 11:40am Pros and Cons of Stem Cells and PRP in Tendons, Ligaments and Joints
Kenneth Lee, MD
11:40am - 12:00pm Imaging Diagnosis and Treatment of Morton Neuroma
James Linklater, MBBS

12:00pm - 1:30pm LUNCH
1:30pm - 3:00pm ARTIFICIAL INTELLIGENCE
Moderators: *Soterios Gyftopoulos, MD, Naveen Subhas, MD*
1:30pm - 2:00pm Machine/Deep Learning (ML/DL): Basics for Radiologists
Larry Zitnick
2:00pm - 2:15pm Deep Learning for image Reconstruction: How Fast Can We Go? How Little Radiation Can We Use?
Michael Recht, MD
2:15pm - 2:25pm Workflow Optimization Using Machine Learning
Martin Torriani, MD, MMSc
2:25pm - 2:40pm Deep Learning for Image Interpretation: Are We Replaceable?
Richard Kijowski, MD
2:40pm - 2:50pm How Artificial Intelligence Will Influence the Next Generation of PACS
Kenneth Buckwalter, MD, MS, MBA
2:50pm - 3:00pm Deep Learning: How Will It Be Used By Bone and Soft Tissue Pathologists?
Meera Hameed, MD

3:00pm - 3:30pm BREAK
3:30pm - 5:00pm SYSTEMIC AND CHRONIC DISORDERS (SAM)
Moderators: *E. Remide Arkun, MD, Khaled Matrawy, MD*
3:30pm - 3:45pm Osteoporosis Screening: State of the Art
Catherine Petchprapa MD
3:45pm - 4:00pm Sarcopenia: From Research to Clinical Practice
Robert Boutin, MD
4:00pm - 4:15pm Opportunistic CT Screening: Bone, Muscle, Fat Measurements
Leon Lenchik, MD
4:15pm - 4:30pm Musculoskeletal Complications of Diabetes: What's the Best Way to Image?
Mark Schweitzer, MD
4:30pm - 4:40pm Drug-Induced MSK Disorders
Michael Richardson, MD
4:40pm - 4:50pm Soft Tissue Infections: Uncommon Culprits
Johnny Monu, MB, BS, MS
4:50pm - 5:00pm Whole Body MRI: Clinical Applications
Andrea Roskopf, MD

SPORTS MEDICINE IMAGING

8:00am - 10:00am	CANADIAN SESSION Moderators: <i>Zaid Jibri, MBChB, MRCS, FRCR, Hema Choudur, MBBS, FRCPC</i>
8:00am - 8:15am	Debate: MRI vs US for Rotator Cuff Tears: Which Modality Prevails? MRI <i>Bruce Forster, MD, MSc, FRCPC</i>
8:15am - 8:30am	Debate: MRI vs US for Rotator Cuff Tears: Which Modality Prevails? US <i>Philip O'Connor, MD</i>
8:30am - 8:45am	Debate: MRI vs US for Rotator Cuff Tears: Which Modality Prevails? Discussion <i>Bruce Forster, MD, MSc, FRCPC, Philip O'Connor, MD</i>
8:45am - 9:00am	Top 3 MRI Pitfalls in Sports Imaging <i>Clarissa Canella, PhD</i>
9:00am - 9:15am	Top 3 US Pitfalls in Sports Imaging <i>Ronald Adler, MD, PhD</i>
9:15am - 9:30am	When and How CT Can Excel in Sports Imaging <i>Hugue Ouellette, MD</i>
9:30am - 9:40am	Rapid Fire Sports Imaging, Canadian Style: Nordic Skiing <i>Michael Tuite, MD</i>
9:40am - 9:50am	Rapid Fire Sports Imaging, Canadian Style: Downhill Skiing <i>Peter Munk, MDCM, FRCPC, FSIR</i>
9:50am - 10:00am	Rapid Fire Sports Imaging, Canadian Style: Rock Climbing <i>Jung-Ah Choi, MD</i>
10:00am - 10:30am	BREAK
10:30am - 12:00pm	TRAUMA/STRESS INJURIES (ARS) Moderators: <i>Wilfred Peh, MD Guillaume Bierry, MD, Joseph Craig, MB, ChB</i>
10:30am - 10:45am	Acute Hand and Wrist Injuries <i>Laura Bancroft, MD, FACR</i>
10:45am - 11:00am	Traumatic Facial Injuries <i>Stacy Smith, MD</i>
11:00am - 11:15am	Acute Pelvic Injuries <i>Karen Finlay, MD</i>
11:15am - 11:30am	Stress Fractures and Atypical Femoral Fractures <i>Linda Probyn, MD</i>
11:30am - 11:45pm	"High Risk" Stress Fractures <i>Mark Anderson, MD</i>
11:45am - 12:00pm	Commonly Missed Injuries <i>Jack Porrino, MD</i>
12:00pm - 1:30pm	LUNCH
1:30pm - 3:00pm	MUSCLE: MAY THE FORCE BE WITH YOU Moderators: <i>Nathalie Bureau, MD, MSc Hee Kyung Kim, MD</i>
1:30pm - 1:45pm	Pathophysiology and Classification of Muscle Injuries <i>George Koulouris, MD, MBBS, MMed, FRANZCR</i>
1:45pm - 2:00pm	Imaging of Muscle Injuries: Role of MR and US <i>Joshua Polster, MD</i>
2:00pm - 2:15pm	Indirect Trauma: DOMS, Hernia, Compartment Syndrome <i>Lawrence White, MD</i>
2:15pm - 2:30pm	Imaging of Upper Limb Muscle Injuries <i>Philip Robinson, FRCR</i>
2:30pm - 2:45pm	Myositis - Infectious, Inflammatory and Congenital <i>Mini N. Pathria, MD</i>
2:45pm - 3:00pm	Advanced MR Imaging Techniques for Assessment of Muscle <i>Patrick Omoumi, MD, PhD</i>
3:00pm - 3:30pm	BREAK
3:30pm - 5:00pm	SHOULDER (SAM) Moderators: <i>Michael Zlatkin, MD Andrew Sonin, MD, FACR</i>
3:30pm - 3:45pm	Biceps, Subscapularis and Rotator Interval <i>Mark Anderson, MD</i>
3:45pm - 4:00pm	Instability <i>Brady Huang, MD</i>
4:00pm - 4:15pm	Supraspinatus and Infraspinatus Update <i>Lynne Steinbach, MD</i>
4:15pm - 4:30pm	Idiopathic (Neurogenic) <i>Luis Beltran, MD</i>
4:30pm - 4:45pm	Shoulder Injury in the Throwing Athlete <i>Andrew Sonin, MD, FACR</i>
4:45pm - 5:00pm	Tip of the Iceberg Lesions-Osseous Lesions as Indicators of Pathology <i>Eva Llopis, MD</i>

MUSCULOSKELETAL DISEASE

8:00am - 10:00am	ARTHRITIS Moderators: <i>Daniel Siegal, MD Anthony Doyle, MBChB, FRANZCR</i>
8:00am - 8:15am	The Plain Radiograph: Help! It's Arthropathy, But What More Can I Say? <i>Mark Murphey, MD</i>
8:15am - 8:30am	MRI for Peripheral Arthritis: Optimizing My Technique <i>Monique Reijnierse, MD, PhD</i>
8:30am - 8:45am	Assessing the Sacroiliac Joints: Is it Spondyloarthritis? <i>Robert Lambert, MB, FRCPC</i>
8:45am - 9:00am	Assessing the spine: Is it spondyloarthritis? <i>Winston Rennie, MB, MSc(SEM), FRCR</i>
9:00am - 9:15am	Enthesitis in Arthritis: Why Does It Matter And What Does It Look Like? <i>Andrew Grainger, BM, BS, MRCP, FRCR</i>
9:15am - 9:30am	Gout and Pyrophosphate: Plain Films and Beyond <i>Hillary W. Garner, MD</i>
9:30am - 9:45am	Connective Tissue Disease: Findings in the Joints <i>Anne Cotten, MD</i>
9:45am - 10:00am	Septic Arthritis: How Not to Miss It <i>Brady Huang, MD</i>
10:00am - 10:30am	BREAK
10:30am - 12:00pm	SPINE Moderators: <i>Elisabeth Dion, MD, Francisco Aparisi-Rodriguez, MD</i>
10:30am - 10:45am	Acute Cervical Spine Trauma <i>Richard Daffner, MD, FACR</i>
10:45am - 10:55am	The Spinal Cord for the MSK Radiologist <i>Marcelo Bordalo-Rodrigues MD, PhD</i>
10:55am - 11:05am	Less Common Causes of Spinal Stenosis <i>Frederic LeCouvet, MD</i>
11:05am - 11:15am	Current Concepts on the Sagittal Balance of the Spine <i>Marcello Nogueira-Barbosa, MD, PhD</i>
11:15am - 11:30am	Imaging of Spine Infection <i>Prudencia Tyrrell, MD</i>
11:30am - 11:45pm	How to Differentiate Osteoporotic from Malignant Fractures <i>Elisabeth Dion, MD</i>
11:45am - 12:00pm	Postoperative Spine: Basic Concepts and Pathological Aspects <i>Iris-Melanie Noebauer-Huhmann, MD</i>
12:00pm - 1:30pm	LUNCH
1:30pm - 3:00pm	BONE TUMORS Moderators: <i>Violeta Vasilevska Nikodinovska MD, PhD, MSc, Leanne L. Seeger, MD, FACR, Hakan Ilaslan, MD</i>
1:30pm - 1:40pm	Molecular Diagnosis of Bone Tumors: Where Can It Help <i>Andrew Horvai, MD, PhD</i>
1:40pm - 1:50pm	Enchondroma vs Chondrosarcoma: The Great Debate – Multidisciplinary Case Based Approach (Perspective 1) <i>Daniel Rosenthal, MD</i>
1:50pm - 2:00pm	Enchondroma vs Chondrosarcoma: The Great Debate – Multidisciplinary Case Based Approach (Perspective 2) <i>Andrew Rosenberg, MD</i>
2:00pm - 2:10pm	Enchondroma vs Chondrosarcoma: The Great Debate – Multidisciplinary Case Based Approach (Perspective 3) <i>Carol D. Morris, MD, MS</i>
2:10pm - 2:20pm	Chordoma Versus Benign Notochordal Cell Tumor: Radiologic Distinction <i>Mark Kransdorf, MD</i>
2:20pm - 2:30pm	What's Cooking with Imaging Guided Ablation: Do We Microwave, Freeze or Fry and Does It Matter? <i>Jack Jennings, MD, PhD</i>
2:30pm - 2:40pm	Common Bone Tumor Mimics: Oh the Trouble I've Seen <i>Hans (J. L.) Bloem, MD</i>
2:40pm - 2:50pm	Lipomatous Lesions of Bone: Are They Really That Unusual <i>Paul O'Donnell, MBBS, FRCR, FRCR</i>
2:50pm - 3:00pm	Whole Body MR Imaging for Evaluation of Bone Tumors: What Can It Add <i>Frank Roemer, MD</i>
3:00pm - 3:30pm	BREAK
3:30pm - 5:00pm	SOFT TISSUE TUMORS Moderators: <i>Darius Borys, MD, Murali Sundarm, MD, MBBS, FRCR, Suphaneewan Jaovisidha, MD</i>
3:30pm - 3:40pm	The Pathologists Perspective of the Importance of Radiologic Assessment in Soft Tissue Tumors: A Team Approach <i>Frederique Larousserie, MD, PhD</i>
3:40pm - 3:50pm	Lipoma vs Well Differentiated Liposarcoma of the Extremity: What to Do and Why – Multidisciplinary Case Based Approach (Perspective 1) <i>Mark Murphey, MD</i>
3:50pm - 4:00pm	Lipoma vs Well Differentiated Liposarcoma of the Extremity: What to Do and Why – Multidisciplinary Case Based Approach (Perspective 2) <i>Carol D. Morris, MD, MS</i>
4:00pm - 4:10pm	Lipoma vs Well Differentiated Liposarcoma of the Extremity: What to Do and Why – Multidisciplinary Case Based Approach (Perspective 3) <i>Julie Fanburg-Smith, MD</i>
4:10pm - 4:20pm	Hematoma Versus Hemorrhagic Neoplasm: What are the Important Radiologic Clues <i>Leanne L. Seeger, MD, FACR</i>
4:20pm - 4:30pm	The 3 T's: Trials and Tribulations in Soft Tissue Tumor Imaging <i>David M. Panicek, MD</i>
4:30pm - 4:40pm	Diffusion Weighted Imaging in Soft Tissue Tumors: Can it Help and Where <i>Laura Fayad, MD</i>
4:40pm - 4:50pm	Vascular Lesions of Soft Tissue: Diagnosis and Differentiation <i>Jeffrey Peterson, MD</i>
4:50pm - 5:00pm	Post-Operative MR Evaluation: How to Detect Tumor Recurrence <i>Francesca D. Beaman, MD</i>

SPORTS MEDICINE IMAGING

8:00am - 10:00am	KNEE Moderators: <i>Garry Gold, MD, Francisco Chagas-Neto, MD, PhD, Filippo Del Grande, MD, MBA, MHEM</i>
8:00am - 8:15am	Pre-Operative Meniscus: Tear Types - What I tell the Surgeon <i>Thomas Magee, MD</i>
8:15am - 8:30am	Pre-Operative Meniscus: Pitfalls and Traps to Avoid <i>Kyung Nam Ryu, MD, PhD</i>
8:30am - 8:45am	Post-Operative Meniscus: Did the Surgeon Fix it and has it Torn Again? <i>Andreas Heuck, MD</i>
8:45am - 9:00am	The Pre-Operative ACL and PCL: Diagnosing the Tear <i>Anagha Parkar, MD</i>
9:00am - 9:15am	The ACL is Torn, What else Should I Look For? <i>Nogah Shabshin, MD, MBA, BSc</i>
9:15am - 9:30am	The Post Operative ACL: What Could Possibly Go Wrong? <i>Tobias Dietrich, MD</i>
9:30am - 9:40am	Patellar Maltracking and Instability - What I Tell the Surgeon <i>Eugene McNally, MD</i>
9:40am - 9:50am	Knee MRI: Methods to Accelerate Your Acquisition <i>Naveen Subhas, MD</i>
9:50am - 10:00am	Imaging the Knee: What Role is there for Ultrasound? <i>Jon Jacobson, MD</i>
10:00am - 10:30am	BREAK
10:30am - 12:00pm	HIP (ARS) Moderators: <i>Srinivasan Harish, FRCPC, Donna Blankenbaker, MD</i>
10:30am - 10:45am	Femoroacetabular Impingement: Assessment of Predisposing Osseous Deformities <i>Reto Sutter, MD</i>
10:45am - 11:00am	Labral Tears: Symptomatic or Variant? <i>Donna Blankenbaker, MD</i>
11:00am - 11:15am	FAI: How I investigate and What I Tell the Surgeon <i>Soterios Gyftopoulos, MD</i>
11:15am - 11:30am	Gluteal Tendons and Iliotibial Band: Anatomy and Pathology <i>William Morrison, MD</i>
11:30am - 11:40am	Hip Pain: Role of US Examination <i>Marnix Van Holsbeeck, MD</i>
11:40am - 11:50am	Advanced MR imaging Techniques for Cartilage Evaluation <i>Carl Winalski, MD</i>
11:50am - 12:00pm	Extraarticular Causes of Hip and Groin Pain <i>Michael Zlatkin, MD</i>
12:00pm - 1:30pm	LUNCH
1:30pm - 3:00pm	SPORTS INJURY OF THE FOOT AND ANKLE (SAM) Moderators: <i>Zehava Rosenberg, MD, Brady Huang, MD</i>
1:30pm - 1:45pm	Adolescent Sports Injury of the Foot and Ankle <i>Ara Kassarian, MD, FRCPC</i>
1:45pm - 2:00pm	Impingement Syndromes of the Ankle <i>David Fessell, MD</i>
2:00pm - 2:15pm	Imaging Midfoot ligamentous injuries <i>Zehava Rosenberg, MD</i>
2:15pm - 2:30pm	Imaging Turf Toe and Plantar Plate Injury <i>Kathryn Stevens, MD, BS (hons)</i>
2:30pm - 2:50pm	Plantar Fascial Injury and Insertional Lateral Cord Plantar Fasciopathy <i>Hilary Umans, MD</i>
2:45pm - 3:00pm	Nerve Lesions of the Foot and Ankle <i>Jon Jacobson, MD</i>
3:00pm - 3:30pm	BREAK

MUSCULOSKELETAL DISEASE

8:00am - 10:00am	ORTHOPEDIC IMPLANTS Moderators: <i>Henk-Jan van der Woude, MD, PhD, Felix Chew, MD</i>
8:00am - 8:20am	CT Techniques for Metal Artifact Reduction <i>Jean Luc Drape, MD</i>
8:20am - 8:40am	Imaging Total Shoulder Arthroplasties <i>David Rubin, MD</i>
8:40am - 9:00am	Added Value of MRI in Total Hip & Knee Arthroplasty <i>Theodore Miller, MD</i>
9:00am - 9:20am	Complications of Spine Fusion and Instrumentation <i>Leon Rybak, MD</i>
9:20am - 9:40am	Imaging of Bone Autografts and Allografts <i>Alice Ha, MD, MS</i>
9:40am - 10:00am	Modern Evaluation of Potentially Infected Joint Replacements <i>Jan Fritz, MD</i>
10:00pm - 10:30pm	BREAK
10:30am - 12:00pm	PERIPHERAL NERVE Moderators <i>Kimberly Amrami, MD, Shivani Ahlawat, MD</i>
10:30am - 10:45am	Peripheral Nerves: Anatomy and Imaging Pearls <i>Benjamin Howe, MD</i>
10:45am - 11:00am	MR Neurography: How to optimize and interpret your images <i>Gustav Andreisek, MD, MBA</i>
11:00am - 11:10am	Intraneural Tumors and Perineural Tumor Extension <i>Kimberly Amrami, MD</i>
11:10am - 11:25am	Peripheral Neuropathies of the Upper Limb <i>Violeta Vasilevska Nikodinovska MD, PhD, MSc</i>
11:25am - 11:35am	Peripheral Neuropathies of the Lower Limb <i>Joel Newman, MD</i>
11:35am - 11:50am	US of Peripheral Nerves <i>Jon Jacobson, MD</i>
11:50am - 12:00pm	MRI of Peripheral Nerves : Influence on Medical Decision Making <i>John Carrino, MD, MPH</i>
12:00pm - 1:30pm	LUNCH
1:30pm - 3:00pm	THE CHILD'S SKELETON: WHAT MAKES IT UNIQUE Moderators: <i>Nancy Chauvin, MD, Diego Jaramillo, MD, MPH</i>
1:30pm - 1:45pm	Growth Cartilage and Marrow <i>Diego Jaramillo, MD, MPH</i>
1:45pm - 2:00pm	Gender Differences in Bone Growth and Their Lifelong Implications <i>Vicente Gilsanz, MD, PhD</i>
2:00pm - 2:15pm	Joint Development and Dysplasia <i>Jacob Jaremko, MD, PhD</i>
2:15pm - 2:30pm	Trauma: Child Abuse <i>Jeannette Perez-Rossello, MD</i>
2:30pm - 2:45pm	Tumors: The ISSVA Classification and More <i>Ricardo Restrepo, MD</i>
2:45pm - 3:00pm	Inflammation: Arthritis and Chronic Nonbacterial Osteomyelitis <i>Nancy Chavin, MD</i>
3:00pm - 3:30pm	BREAK



COMBINED SESSION
FILM QUIZ PANEL 3:30PM – 5:00PM

WIFI

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OCTOBER 7-9, 2020

BARCELONA, SPAIN

47TH ANNUAL MEETING

MUSCULOSKELETAL IMAGING COURSE



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