

## PRE-CONGRESS COURSES

The pre-congress courses are structured to fully address the educational needs of musculoskeletal imagers. Attendees will have a wide selection of activities to fulfill their individual educational needs.

### WEDNESDAY, JUNE 26

#### 08:30-18:30 Ultrasound Hands-On Course

This is a day of teaching ultrasound examination of the Hip and Groin.

The session will be run by the Ultrasound subcommittee members who are all experts in the field of Musculoskeletal Ultrasound.

Masterclasses revising and demonstrating ultrasound anatomy will start the day.

The delegates will then be divided into groups. Small groups will take part in hands-on teaching using volunteers rotating with more formal lectures on topics covering the diseases of the hip and groin that can be diagnosed using ultrasound. The delegates will be streamlined into beginner and advanced groups so that the hands-on teaching can be tailored to their requirements.

### THURSDAY, JUNE 27

#### 08:30-13:00 MSK Intervention Course

The focus of this pre-course is to learn how to create a strategy to reduce possible complications of musculoskeletal interventions and at the same time to be enlightened about less invasive interventions techniques.

A hands-on parallel session will include theoretical discussions with tutors and training on models concerning anatomy and US-guided interventions around the hip.

The target group of this course are radiologists and radiology residents with the ambition to perform musculoskeletal interventions in general and specifically in the hip region.



### THURSDAY, JUNE 27

#### 14:00-18:00 Master Class on Hip Imaging

Interactive Case Review – Bring your own device to scroll through cases

Five sessions with interactive case review

The cases will be available on a local PACS system provided by the Johns Hopkins Hospital. The system can be accessed via standard browser apps of handheld devices such as iphones, ipads, android phones and tablets, as well as PC and Mac laptops.

### THURSDAY, JUNE 27

#### 14:00-18:00 SpA Workshop

Participants will learn MRI protocols and specific scanning parameters; a standardized approach to routine evaluation and clear definitions for specific disease stigmata so that 'over-calling or under-calling lesions' are minimised.

Sessions will focus on the sacroiliac joint, spine, early SpA, the full spectrum of the disease and finally differential diagnosis. A full course evaluation will be part of the learning assessment.

Case-based learning with clinical information and radiographs will be provided in addition to the MRI scans.

Participants will review each case on their own laptops and provide direct audience-response to questions posed by the moderators.

Responses will be reviewed in real-time and discussed by rheumatologist and radiologist moderators from their respective backgrounds.

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**Places are limited!**

Separate registration ticket compulsory.

## FRIDAY, JUNE 28

	Room 1	Room 2
8:15–10:00	<b>Hip I – “From birth to the downfall”</b> Anatomy and normal variants of the hip and pelvis // Dysplasia (from peds to adult), imaging and orthopedist’s perspective // Imaging SCFE (from peds to adults) // Perthes and AVN (from peds to adult) // Hip osteoarthritis – what the radiologist needs to know // Hip replacement – what to report on plain films and CT?	<b>Advanced MSK imaging I</b> CT resurgence in MRI era– Low-dose, dual-energy and novel applications // MRI and New Sequences in MSK: are we going for resolution, time or both // MSK MRI at 3T, 7T.... – Do we need more or is it more than enough? // Cartilage: from qualitative to quantitative imaging. Are we there yet? // Post-operative cartilage – State of the art // Post-operative joints – Normal and abnormal findings with state of the art MRI
10:00–10:30	Coffee break	
10:30–12:30	<b>Sports subcommittee session</b> Overuse injuries of the elbow // Elbow instability // Ulnar-sided wrist pain // Tendon and ligament injuries of the hand // Extrinsic ligaments injuries // Sports related injuries: elbow and beyond // Specificity of sports related elbow and wrist injuries	<b>Intervention subcommittee session – intervention procedures around the hip</b> Greater trochanteric pain syndrome // Imaging guided interventional technique in pudendal neuralgia // US guided therapeutic approach in iliopsoas impingement syndrome after THA // Ischiofemoral Impingement: Is there a role for nonsurgical treatment? // Management of meralgia paresthetica. // Image-guided treatment of enthesitis around the pelvis // US guided intra-articular hip injection // Sacroiliac joint imaging guided interventional procedures (US, fusion, fluoroscopy, CT) // Cryoablation in the hip and pelvic region // Bone biopsy in the molecular era // MR imaging guided high intensity focused US in MSK pathology
12:30–13:00	<b>Opening session</b>	
13:00–14:00	Lunch Break/Symposium	
14:00-16:00	<b>Hip II – FAI consensus session</b> Introduction: “The Lisbon International Consensus on FAI” // Minimal acceptable imaging to diagnose FAI morphology // Radiographic evaluation of the young patient – what, when and how? // Which MR protocol should we use to evaluate the young hip? // Imaging criteria for defining Cam and Pincer morphology // What are the reference interval values of femoral and acetabular parameters? // How to report chondral and labral lesions on a hip MRI? // Which imaging outcome and prognosis predictors should be used to assess treatment for FAI? // How should the post-operative FAI patient be imaged? // What is the role of ultrasound in FAI? // Differential diagnoses in young patients presenting with hip, groin or pelvis/low back pain	<b>Scientific session I</b>
15:00		<b>Scientific session II</b>
16:00–16:30	Coffee break	
16:30–18:30	<b>Young Club session – learning with the masters</b> Presentation of M.AVATAR project // Live demo - Anatomy landmarks and how to perform US of the hip // Hip x-ray – How to read with clinical cases // Hip CT trauma – How to read with clinical cases // Hip MRI – How to read & clinical cases // Clinical case resolution	<b>ESSR meets Spain &amp; Brazil – “Lower limb beyond the hip”</b>

## SATURDAY, JUNE 29

	Room 1	Room 2
8:15–10:00	<b>Advanced MSK imaging II – Egas Moniz session</b> What is AI? The basics about Artificial Intelligence, Machine Learning, Deep Learning // The impact of AI in patient care and on radiology // AI and MSK imaging – Current And Future Applications // Software applications in MSK – which are they and how to use them? // 3D printing and Virtual Reality in MSK // Whole body MRI – non oncology applications	<b>Hip III – non FAI hip and pelvis</b> Extrarticular impingement syndromes // Bone Marrow edema syndromes // Greater trochanteric pain syndrome and the snapping hip // Athletic pubalgia and tendons pathology, an update // Osseous Hip/Pelvic trauma made simple // Post-surgical hip: How to reduce metal artifacts in CT and MRI – practical tips and tricks
10:00–10:30	Coffee break	
10:30–12:30	<b>Arthritis subcommittee session</b> Tips, tricks and pitfalls: imaging in rheumatoid arthritis // Tips, tricks and pitfalls: synovial proliferation in the hip // Tips, tricks and pitfalls: imaging in gout // Bone marrow edema in the spine: inflammatory disease or not? // Bone marrow edema of the SI joint: sacroiliitis or not? // Hip inflammation: how I reach a specific diagnosis // Hip: misleading periarticular inflammatory conditions // Hip: arthrosis or arthritis? // New techniques: DCE-MRI in arthritis // New techniques: the SI joint as you have never seen before	<b>Tumours subcommittee session – A survival guide for the radiologist</b> Keeping patients with bone and soft tissue lesions out of trouble and the radiologist out of court // Reporting the relationship of tumours to critical structures around the pelvis // Reporting hip fracture risk – Mirel's score and beyond // Primary osseous tumours of the sacrum // Bone Pseudotumours in the hip and pelvis // Soft tissue Pseudotumours in the hip and pelvis // Differentiating pseudotumours from tumours around hip prosthesis – State of the art imaging // Identifying incidental PET positive non-tumourous lesions in the pelvis and their differentiation // CT and MR based texture analysis of cartilaginous bone tumours // MR-derived radiographs/CT-like data sets in bone tumours // Whole body MRI for primary and secondary bone tumours – when and how?
12:30–13:00	Honorary session	
13:00–14:00	Lunch Break/Symposium	
14:00–15:00	<b>Scientific session III</b>	<b>Young Club session – learning with the peers</b> Developmental dysplasia of the hip – US // Pediatric hip injuries // Nerve pathology around the hip // Heterotopic ossification around the hip // Lumps and bumps around the hip // Radiographs of the post-operative hip: a primer
15:00–16:00	<b>Osteoporosis subcommittee session</b> Bone marrow edema around the hip: differential diagnosis // Case presentation // Bone softening and bone fractures // Periprosthetic fractures: basic and advanced diagnostic techniques // Advanced techniques in assessing bone strength: an update // Case presentation	<b>International session – Discovering new worlds</b> 
16:00–16:30	Coffee break	
16:30–16:40	<b>Invitation ESSR 2020</b>	
16:45–18:00	<b>ESSR QUIZ</b>	