ESSR
16th Annual Congress of the European Society of Musculoskeletal Radiology
Refresher Course on the Hip and Bone Pelvis

Program
Genoa, Italy
June 11 – 13, 2009
With the patronage of

Regione Liguria

Società Italiana di Radiologia Medica

General Information

DATE:  
ESSR Congress: 11-13 June 2009  
SIRM Congress: 11 June 2009

CONGRESS VENUE:  Genoa, Italy  
Centro Congressi Magazzini del Cotone - Area Porto Antico

ESSR LOCAL ORGANISING COMMITTEE AND SCIENTIFIC SECRETARY

Congress Presidents:  
Carlo Martinoli - Genova, Italy; Enzo Silvestri - Genova, Italy

Members:  
Lorenzo E. Derchi - Genova, Italy; Nicola Gandolfo - Alessandria, Italy  
Alessandro Muda - Genova, Italy; Nicolò Prato - Genova, Italy  
Giovanni Serafini - Pietra Ligure, Italy

ESSR OFFICERS

President: Remide Arkun - Izmir, Turkey  
Past-President: Apostolos Karantanas - Heraklion, Greece  
President-Elect: Carlo Masciocchi - L’Aquila, Italy  
Treasurer: Marco Zanetti - Zurich, Switzerland  
Secretary: Koenraad Verstraete - Gent, Belgium

ESSR - INTERNATIONAL ADVISORY BOARD

Ian Beggs - Edinburgh, Scotland; Klaus Bohndorf - Augsburg, Germany  
Anne Cotten - Lille, France; Andrew Grainger - Leeds, UK  
Andrea Klauser - Innsbruck, Austria; Thomas M. Link - San Francisco, USA  
Anne Grethe Jurik - Aarhus, Denmark; Martina Lohman - Helsinki, Finland  
Mario Padron - Madrid, Spain; Filip Vanhovenacker - Antwerp, Belgium  
Kai Vilanova - Gerona, Spain

ORGANISING SECRETARIAT

Is available on site from Thursday to Saturday from 7.30 to 19.30

Skyline PR

Piazza Marsala, 4/4 - 16122 Genova, Italy  
Tel +39 0102474154 - Fax +39 0102474151  
www.essr-sirm2009.it - info@essr-sirm2009.it
Thursday, June 11

Scirocco Room

ESSR ULTRASOUND COURSE

Theme of the course: HIP ULTRASOUND
Schedule: Thursday, June 11, 2009 (15.00 -18.40)
Moderators: Andrea Klauser (Innsbruck, Austria), Moshe Graif (Tel Aviv, Israel)
The Course consists of four modules:

MODULE 1. Live-demonstration of normal and US anatomy
15.00 - 15.30 - Anterior and Medial Hip Anatomy
*Marnix van Holsbeeck* (Detroit, USA) and Philippe Peetrons (Brussels, Belgium)
15.30 - 16.00 - Lateral and Posterior Hip Anatomy
*Theodore Miller* (New York, USA) and Philippe Peetrons (Brussels, Belgium)

MODULE 2. Hands-on sessions (basic and advanced)
16.00 - 18.00 - US equipments will be available in the room. The attendees will be divided in groups. Each group will have time to follow a half-an-hour session.
Instructors:

MODULE 3. Case studies with video demonstrations (advanced)
16.00 - 18.00 - Given concurrently with Module-2 by splitting the entire group of participants into subgroups. Each instructor will give the same presentation twice.
Instructors:
Claudia Weidekamm (Vienna, Austria), David Fessell (Ann Arbor, USA), Monique Reijnierse (Leiden, The Netherlands), Robert Campbell (Liverpool, UK), Ana Navas-Acien (Madrid, Spain), Gerd Bodner (Gibraltar, UK)

Module 4. Lectures on pathology (basic)
18.00 - 18.20 - Anterior and Medial Hip Pathology
*Gina Allen* (Birmingham, UK)
18.20 - 18.40 - Lateral and Posterior Hip Pathology
*Andrea Klauser* (Innsbruck, Austria)
# Friday, June 12

## Maestrale Room

### 08.40-9.00 Opening

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00-09.10</td>
<td>Hip Biomechanics - <em>Thomas Pope (Charleston, USA)</em></td>
</tr>
</tbody>
</table>
| 09.10-09.30 | Normal Human Anatomy of the Hip with imaging correlation  
*Maria Isabel Miguel Perez (Barcelona, Spain)* |
| 09.30-09.50 | How-to-do: MR imaging - *Eva Llopis (Valencia, Spain)*                |
| 09.50-10.10 | How-to-do: MR arthrography - *Marco Zanetti (Zurich, Switzerland)*   |
| 10.10-10.30 | New Concepts in Hip Imaging: an overview  
*Apostolos Karantanas (Heraklion, Greece)* |
| 10.30-10.40 | Discussion                                                              |

### Coffee break

### A2 - Joint Disorders

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
| 11.00-11.20 | Osteonecrosis, Subchondral Fractures and Transient Osteoporosis of the 
Femoral Head - *Josef Kramer (Linz, Austria)* |
| 11.20-11.40 | Pathophysiology of Degenerative Arthritis of the Hip Revisited  
*Radhesh Lalam (Oswestry, UK)* |
| 11.40-12.10 | Femoroacetabular Impingement Syndrome: imaging appearance  
*Suzanne Anderson (Bern, Switzerland)* |
| 12.10-12.25 | Synovial Pit - *Klaus Bohndorf (Augsburg, Germany)*                   |
| 12.25-12.50 | Inflammatory and Septic Arthropathies: hip and sacroiliac joints  
*Vladimir Jevtic (Ljubljana, Slovenia)* |
| 12.50-13.00 | Discussion                                                              |

### Lunch

### A3 - Interventional

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>14.00-15.00</td>
<td>See page 12</td>
</tr>
</tbody>
</table>
### A4 - Bone and Postoperative Hip

**Moderators:** *Mara Epermane (Riga, Latvia), Mihra S. Taljanovic (Tucson, USA)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>15.00-15.20</td>
<td>Traumatic Hip Dislocation: imaging, treatment and complications</td>
</tr>
<tr>
<td></td>
<td><em>Mihra S. Taljanovic (Tucson, USA)</em></td>
</tr>
<tr>
<td>15.20-15.40</td>
<td>Acetabular Fractures: imaging update</td>
</tr>
<tr>
<td></td>
<td><em>Mara Epermane (Riga, Latvia)</em></td>
</tr>
<tr>
<td>15.40-16.00</td>
<td>Pelvic Ring Fractures: from biomechanics to imaging</td>
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<tr>
<td></td>
<td><em>Antonello Leone (Rome, Italy)</em></td>
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<tr>
<td>16.00-16.10</td>
<td>Proximal Femur Fractures: from biomechanics to imaging</td>
</tr>
<tr>
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<td><em>Igor Boric (Zagreb, Croatia)</em></td>
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<tr>
<td>16.10-16.25</td>
<td>Insufficiency Fractures of the Pelvic Ring</td>
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<td><em>Wilfred Peh (Singapore, Singapore)</em></td>
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<tr>
<td>16.25-16.45</td>
<td>Hip Replacement Hardware: review and radiographic evaluation</td>
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<td><em>Adam Mester (Budapest, Hungary)</em></td>
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<tr>
<td>16.45-17.05</td>
<td>Complications of Hip Replacement - <em>Martina Lohman (Helsinki, Finland)</em></td>
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<tr>
<td>17.05-17.15</td>
<td>Discussion</td>
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### Coffee break

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>17.45-18.45</td>
<td>Plenary Session</td>
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</tbody>
</table>

### A5 - Quiz Game Session (Televoter Session)

**Chairs:** *Mark Schweitzer (Ottawa, Canada)*  
*Robert Campbell (Liverpool, UK)*

**Panellists:** *Thomas M. Link (San Francisco, USA)*  
*Theodore Miller (New York, USA)*  
*Zehava Rosenberg (New York, USA)*

### Presentation on Lille Meeting ESSR 2010

**Anne Cotten (Lille, France)**

### Niccolò Paganini:
**A Musculoskeletal Dilemma: lecture and concert**

**Carlo Martinoli will introduce the violinist Francesca Dego**

### 19.30 Welcome reception

**Foyer**
### B1 - Technologic Advances in Musculoskeletal Imaging

**Moderators:** Marnix van Holsbeeck (Detroit, USA), Siegfried Trattnig (Vienna, Austria)

<table>
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<tr>
<th>Time</th>
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<tr>
<td>09.00-09.15</td>
<td>Whole-Body MR imaging: technique and applications</td>
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<td>Koenraad Verstraete (Gent, Belgium)</td>
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<tr>
<td>09.15-09.30</td>
<td>New MRI sequences - Christian Glaser (Munich, Germany)</td>
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<tr>
<td>09.30-09.45</td>
<td>New MR techniques in MSK system at high and ultra-high field (3T-7T)</td>
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<td></td>
<td>Siegfried Trattnig (Vienna, Austria)</td>
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<tr>
<td>09.45-10.00</td>
<td>Multislice CT: advances in musculoskeletal imaging</td>
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<td>Roberto Caudana (Mantova, Italy)</td>
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<tr>
<td>10.00-10.15</td>
<td>Technologic Advances in Musculoskeletal US</td>
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<td>Philippe Peetrons (Brussels, Belgium)</td>
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<tr>
<td>10.15-10.30</td>
<td>Image Fusion and Tomosynthesis in Musculoskeletal Radiology</td>
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<tr>
<td></td>
<td>Marnix van Holsbeeck (Detroit, USA)</td>
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<tr>
<td>10.30-10.40</td>
<td>Discussion</td>
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</tbody>
</table>

### Coffee break

### B2 - Musculoskeletal Radiology: a global perspective

**Moderators:** Kenneth Buckwalter (Indianapolis, USA), Remide Arkun (Izmir, Turkey)

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<tr>
<th>Time</th>
<th>Session Description</th>
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<tbody>
<tr>
<td>11.00-11.15</td>
<td>ESSR History - Remide Arkun (Izmir, Turkey)</td>
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<tr>
<td>11.15-11.30</td>
<td>ISS History - Klaus Bohndorf (Augsburg, Germany)</td>
</tr>
<tr>
<td>11.30-11.45</td>
<td>SSR History - Kenneth Buckwalter (Indianapolis, USA)</td>
</tr>
<tr>
<td>11.45-12.00</td>
<td>MSK Radiology in Europe: an outlook to the future</td>
</tr>
<tr>
<td></td>
<td>Phil Robinson (Leeds, UK)</td>
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<tr>
<td>12.00-12.15</td>
<td>MSK Radiology in USA: an outlook to the future</td>
</tr>
<tr>
<td></td>
<td>Jon Jacobson (Ann Harbor, USA)</td>
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<tr>
<td>12.15-12.30</td>
<td>MSK Radiology in Asia: an outlook to the future</td>
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<td>Kil-Ho Cho (Seoul, South Korea)</td>
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<tr>
<td>12.30-12.50</td>
<td>Research in MSK Radiology: current status and main directions</td>
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<td>Christian Glaser (Munich, Germany), Murali Sundaram (Cleveland, USA)</td>
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<tr>
<td>12.50-13.00</td>
<td>Discussion</td>
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</tbody>
</table>

### Lunch
### B3 - Ultrasound

**Moderators:** Martina Lohman (Helsinki, Finland), Christian Glaser (Munich, Germany)

<table>
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<tr>
<td>14.00-15.00</td>
<td>See page 12</td>
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### B4 - Sport Specific Injuries: from biomechanics to imaging

**Moderators:** Mario Padron (Madrid, Spain), Carlo Faletti (Turin, Italy)

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>15.00-15.25</td>
<td>Ball Sports Injuries (I): Soccer and Rugby</td>
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<td></td>
<td>Alberto Tagliafico (Genoa, Italy), Gina Allen (Birmingham, UK)</td>
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<tr>
<td>15.25-15.50</td>
<td>Racquet Injuries: Golf and Tennis</td>
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<td>Nadja Saupe (Zurich, Switzerland), Eugene McNally (Oxford, UK)</td>
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<tr>
<td>15.50-16.15</td>
<td>Mountain Sports Injuries: Rock climbing, Skiing and Snowboarding</td>
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<td>Oliver Ertl (Augsburg, Germany), Antonio Barile (L’Aquila, Italy)</td>
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<tr>
<td>16.15-16.40</td>
<td>Bicycling and Rowing Injuries</td>
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<td></td>
<td>Luca Sconfienza (S. Donato Milanese, Italy), Carlo Faletti (Turin, Italy),</td>
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<tr>
<td>16.40-17.05</td>
<td>Ball Sports Injuries (II): Basketball and Volleyball</td>
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<td></td>
<td>Xavier Tomas (Barcelona, Spain), Maryam Shahabpour (Brussels, Belgium)</td>
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<tr>
<td>17.05-17.15</td>
<td>Discussion</td>
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</tbody>
</table>

**Coffee break**

### Levante Room

#### C1 - Spine

**Moderators:** Antonello Leone (Rome, Italy), Marco Zanetti (Zurich, Switzerland)

<table>
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<tr>
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<tbody>
<tr>
<td>14.00-14.50</td>
<td>See page 13</td>
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### Saturday, June 13

#### Maestrale Room

#### A6 - Rheumatology

**Moderators:** Alberto Vieira (Porto, Portugal), David Wilson (Oxford, UK)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08.00-09.00</td>
<td>See page 13</td>
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</tbody>
</table>
A7 - Soft-tissue Disorders (I)  
**Refresher Course**

Moderators: *David Connell (London, UK), Javier Beltran (New York, USA)*

- 09.00-09.10  The Hip and Pelvis in Sports Imaging: pathophysiology of disorders  
  *Mario Padron (Madrid, Spain)*
- 09.10-09.30  Groin Pain Imaging - *Phil O’Connor (Leeds, UK)*
- 09.30-09.50  Rectus Femoris and Iliopsoas Lesions - *Anne Cotten (Lille, France)*
- 09.50-10.10  Greater Trochanteric Pain Syndrome - *Javier Beltran (New York, USA)*
- 10.10-10.30  Avulsion Fractures and Apophysal Injuries in Children and Adolescents  
  *David Wilson (Oxford, UK)*
- 10.30-10.40  Discussion

**Coffee break**

A8 - Soft-tissue Disorders (II)  
**Refresher Course**

Moderators:  *Phil O’Connor (Leeds, UK), Anne Cotten (Lille, France)*

- 11.00-11.25  Hamstring Injuries - *David Connell (London, UK)*
- 11.25-11.40  Femoral and Lateral Femoral Cutaneous Neuropathies  
  *Gerd Bodner (Gibraltar, UK)*
- 11.40-12.00  Sciatic Nerve and Other Neuropathies around the Hip  
  *Zehava Rosenberg (New York, USA)*
- 12.00-12.20  Heterotopic Ossification - *Alberto Vieira (Porto, Portugal)*
- 12.20-12.30  Discussion

A9 - Case Quiz Game  
**Plenary Session**

12.30-13.30  Chairs: *Richard Whitehouse (Manchester, UK), Robert Campbell (Liverpool, UK)*

Panellists: Team North  *Eugene Mc Nally (Oxford, UK)*  
  *Thomas Pope (Charleston, USA)*  
  *Martina Lohman (Helsinki, Finland)*

Team South  *Carlo Faletti (Torino, Italy)*  
  *Giuseppe Guglielmi (Foggia, Italy)*  
  *Eva Llopis (Valencia, Spain)*

**Lunch**

A10 - 3T MRI/Elbow  
**Scientific Papers**

Moderators:  *Maryam Shahabpour (Brussels, Belgium), Eva Llopis (Valencia, Spain)*

- 14.30-15.30  See page 15
A11 - Invited Lecture Plenary

Moderators: Klaus Bohndorf (Augsburg, Germany)
15.30-16.00 Self Therapy in Musculoskeletal Disorders - Iain McCall (Oswestry, UK)

A12 - Tumors and Interventional Refresher Course

Moderators: Jean-Luc Drapé (Paris, France), Hans Bloem (Leiden, The Netherlands)
16.00-16.30 Soft-Tissue Tumors and Tumor-like Conditions around the Hip Remide Arkun (Izmir, Turkey)
16.30-17.00 Hip Bone Tumors - Hans Bloem (Leiden, The Netherlands)
17.00-17.20 RF Ablation of Osteoid Osteoma - Francisco Aparisi (Valencia, Spain)
17.20-17.40 Interventional Procedures in the Metastatic Hip Jean-Luc Drapé (Paris, France) - Antoine Feydy (Paris, France)
17.40-18.00 US-guided Interventional Procedures around the Hip Michel Court-Payen (Copenhagen, Denmark)
18.00-18.15 Discussion

A13 - Award of Honorary Membership Ceremony Plenary Session

Award of Honorary Membership of the ESSR to Professor Alain Chevrot
18.15-18.20 Foreword: Remide Arkun (Izmir, Turkey)
18.20-18.35 Chunks of my experience - Alain Chevrot (Paris, France)

Coffee break

18.45-19.30 General Assembly

Scirocco Room

B5 - Tumors Scientific Papers

Moderators: Alberto Tagliafico (Genoa, Italy), Antoine Feydy (Paris, France)
08.00-09.00 See page 14
B6 - Tumor Imaging

Moderators: Kai Vilanova (Girona, Spain), Klaus Woertler (Munich, Germany)

09.00-09.20 Soft-tissue Classification Adopted from the WHO
   Kai Vilanova (Girona, Spain)

09.20-09.40 Staging of Soft-tissue Sarcomas - Klaus Woertler (Munich, Germany)

09.40-10.00 Recurrent Soft-tissue Sarcoma: an imaging approach
   Carla Van Rijswijk (Leiden, The Netherlands)

10.00-10.20 Synovial Sarcoma: a radiological update
   Filip Vanhoenacker (Antwerp, Belgium)

10.20-10.30 The Role of Ultrasound in Soft-tissue Tumors
   Jean-Luc Drapé (Paris, France) - Henri Guerini (Paris, France)

10.30-10.40 Discussion

Coffee break

B7 - Osteoporosis

Moderators: Thomas M. Link (San Francisco, USA), Giuseppe Guglielmi (Foggia, Italy)

11.00-11.30 Multimodality Fracture Detection (radiographs, CT, MRI, VFA by DXA)
   Thomas M. Link (San Francisco, USA)

11.30-12.00 DXA and QCT: comparative strengths, limitations and applications
   Giuseppe Guglielmi (Foggia, Italy)

12.00-12.20 Bone Densitometry in Children: indications and techniques
   Judith E. Adams (Manchester, UK)

12.20-12.30 Discussion

Lunch

B8 - Cartilage/Wrist

Moderators: Nadja Saupe (Zurich, Switzerland), Roberto Caudana (Mantova, Italy)

14.30-15.20 See page 15

B9 - Peripheral Arthritis

Moderators: Herwig Imhof (Vienna, Austria), Andrew Grainger (Leeds, UK)

15.30-15.50 Imaging Features of Peripheral Arthritides
   Herwig Imhof (Vienna, Austria)

15.50-16.10 Radiographic Quantification of Rheumatoid Arthritis
   Franz Kainberger (Vienna, Austria)
16.10-16.30  Quantification of Rheumatoid Arthritis by MRI  
*Andrew Grainger (Leeds, UK)*

16.30-16.50  Early Detection of Spondyloarthropathy  
*Monique Reijnierse (Leiden, The Netherlands)*

16.50-17.10  Special Features of Psoriatic Arthritis - *Nathalie Boutry (Lille, France)*

17.10-17.20  Ultrasound-guided Joint Injection - *Andrea Klauser (Innsbruck, Austria)*

17.20-17.35  Predictors of Patient’s Outcome  
*Ingrid Möller Parera (Barcelona, Spain)*

17.35-17.45  Discussion

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**Levante Room**

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**C2 - Knee**

*Scientific Papers*

Moderators: *Tuhin Sikdar (London, UK), Phil Robinson (Leeds, UK)*

08.00-08.50  See page 14

**Experience with Tilting MRI**

Workshop

13.30-14.30  Speaker: Carlo Masciocchi (*L’Aquila*)

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**C3 - Miscellanea**

*Scientific Papers*

Moderators: *Aysenur Oktay (Izmir, Turkey), Filip Vanhoenacker (Antwerp, Belgium)*

14.30-15.20  See page 16

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21.00  **GALA DINNER**  
**VILLA SPINOLA**

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EACCME - European Accreditation Council for Continuing Medical Education

Certificates that the

“16th European Congress of the European Society of Musculoskeletal Radiology” has been accredited to provide CME activity for medical specialists for a maximum of, or up to 12 European CME credits (ECMEC’s).

“Italian Congress of Musculoskeletal Radiology” has been accredited as part of ESSR 2009 to provide CME activity for medical specialists for a maximum of, or up to 6 European CME credits (ECMEC’s).

“Hip Ultrasound Course” has been accredited as part of ESSR 2009 to provide CME activity for medical specialists for a maximum of, or up to 3 European CME credits (ECMEC’s).
### SCIENTIFIC SESSIONS

**A3 - Interventional**  
*Maestrale Room*

**Friday 12 - 14.00-15.00**

**Moderators:** *Murali Sundaram (Cleveland, USA), Eugene McNally (Oxford, UK)*

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<tr>
<td>14.00-14.10</td>
<td>Results of surgery and various radiological interventional procedures in the management of osteoid osteoma: Review of cases between 1991 and 2008; <em>S Chaganti, B Sullivan (UK)</em></td>
</tr>
<tr>
<td>14.10-14.20</td>
<td>Percutaneous CT-guided radiofrequency ablation for the treatment of osteoid osteoma and osteoblastoma of the spine; <em>J Martel, Bueno, E J Ortiz (Spain)</em></td>
</tr>
<tr>
<td>14.20-14.30</td>
<td>Clinical and MRI follow-up in 123 consecutive patients after percutaneous US guided ablation of shoulder tendons calcifications; <em>G De Conti, F Angelini, U Marchioro, N Boscolo, M Trevisan, S Vivo (Italy)</em></td>
</tr>
<tr>
<td>14.30-14.40</td>
<td>Outcome of ultrasound-guided aspiration and lavage in calcific tendinosis of the shoulder and other tendons; <em>T De Zordo, N Ahmed, MT Girtler, AS Klauzer, R Chhem, C Romagnoli (Canada, Austria)</em></td>
</tr>
<tr>
<td>14.40-14.50</td>
<td>Image guided therapeutic steroid injection in groin pain. Correlation with pre procedural MRI and post procedural outcome; <em>HI Al Bulushi, PPA Hodnett, BA Hogan, EEC Kavanagh, SJ Eustace (Ireland)</em></td>
</tr>
</tbody>
</table>

**B3 - Ultrasound**  
*Scirocco Room*

**Friday 12 - 14.00-15.00**

**Moderators:** *Martina Lohman (Helsinki, Finland), Christian Glaser (Munich, Germany)*

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<tr>
<td>14.00-14.10</td>
<td>Anatomical study of superficial peroneal nerve using ultrasonography; <em>C Canella, X Demondion, R Guillin, J Peltier, N Boutry, A Cotten (France)</em></td>
</tr>
<tr>
<td>14.10-14.20</td>
<td>Ultrasound assessment of intra-articular entrapment of the long head of biceps (hourglass biceps): a series of 16 surgically proven cases; <em>R Hargunani, PM Ahrens, N Pujol, S Gadikoppula, B Holloway (UK)</em></td>
</tr>
<tr>
<td>14.20-14.30</td>
<td>Lateral elbow tendinopathy: correlation of ultrasound findings with pain and functional disability; <em>AW Clarke, DA Connell (UK)</em></td>
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<tr>
<td>14.30-14.40</td>
<td>Ultrasound of the palmar flexor tendons: a review of methodology and findings following surgical repair; <em>J Coyle, N Nugent, KO Regan, C Healy, MO Shaughnessy, D Kelly, J Barry (Ireland)</em></td>
</tr>
<tr>
<td>14.40-14.50</td>
<td>Anatomical study of phrenic nerve using ultrasonography; <em>C Canella, X Demondion, A Delebarre, A Moraux, N Boutry, A Cotten (France)</em></td>
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<tr>
<td>14.50-15.00</td>
<td>Ultrasound guided aspiration for painful hips in children; should it be performed?; <em>A Sinha, R Mctiernan, DJ Wilson (UK)</em></td>
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C1 - Spine

Levante Room

Friday 12 - 14.00-14.50

Moderators: Antonello Leone (Rome, Italy), Marco Zanetti (Zurich, Switzerland)

14.00-14.10 Stress injuries of the lumbar spine: MR imaging at 1.5 Tesla and comparison with CT; A Ganiyusufoglu, L Onat, O Karatoprak, M Enercan, E Karnaarslan, A Hamzaoglu (Turkey)

14.10-14.20 New positioning devices in kinematic MR imaging of patients with degenerative disc disease-desults of a design study; C Muhle, U Hirsch, B Peters, J Pohl (Germany)

14.20-14.30 MRI of lumbar degenerative disc disease as predictor of clinical outcome following image guided lumbosacral selective nerve root block; MR Moynagh, P Foran, M Shelly, S Eustace (Ireland)

14.30-14.40 Cervical spinal canal dimensions; E J Ulbrich, C Schraner, A Busato, C Boesch, H Zimmermann, J Hodler, SE Anderson, M Sturzenegger (Germany, Switzerland, Australia)

14.40-14.50 Diffusion Weighted MR imaging in the diagnosis of vertebral metastasis in patients known primary malignancy; N Sabir, B Kocak, S Kirac, B Baltalarli, Y Kiroglu (Turkey)

A6 - Rheumatology

Maestrale Room

Saturday 13 - 8.00-9.00

Moderators: Alberto Vieira (Porto, Portugal), David Wilson (Oxford, UK)

08.00-08.10 Erosions, but not bone marrow edema or contrast medium enhancement, are specific features in MRI of ankylosing spondylitis patients; MC Wick, RJ Weiss, W Jaschke, AS Klauser (Austria, Sweden)

08.10-08.20 Magnetic resonance imaging characteristics of knees of a healthy population and of early knee osteoarthritis and the relation to pain and disability; R Madan-Sharma, I Watt, AJCMA Oostveen, M Viergever, JL Bloem, M Kloppenburg (The Netherlands)

08.20-08.30 Quantification of synovitis in rheumatoid arthritis: do we really need quantitative measurement of contrast-enhanced ultrasound?; C Schueller-Weidekamm, H Platzgummer, G Schueller, F Kainberger (Austria)

08.30-08.40 MRI and radiographic findings after 10 years in patients with non-acute knee complaints; determination of risk for the development of osteoarthritis; K Huëtink, RGH Nelissen, AR Van Erkel, I Watt, HJL Bloem (The Netherlands)

08.40-08.50 Early sacroiliitis in patients with seronegative spondylarthitis: evaluation with dynamic contrast-enhanced magnetic resonance imaging; P Cardello, A Ricci, V Scalzi, C Meschini, L Chiatti, E Pofi (Italy)

08.50-09.00 Is ultrasound guided autologous blood injection an effective treatment for hamstring enthesopathy?; WA Bashir, DA Connell (UK)
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<td>Magnetic resonance imaging features of chondroblastoma recurrence;</td>
<td>CE Davies, MA Davies, SL James (UK)</td>
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<td>08.10-08.20</td>
<td>Radiological investigation of soft tissue peripheral nerve sheath tumors appearance, with US MRI;</td>
<td>S Kamtsiki, A Lefkopoulos, H Tarenidou, M Potsi, A Haritanti-Kouridou, A Dimitriadis (Greece)</td>
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<td>08.20-08.30</td>
<td>Value of whole-body MRI in correctly staging monoclonal plasma cell disease – comparison of the</td>
<td>K Fechtner, J Hillengass, L Grenacher, S Delorme, HU Kauczor, MA Weber (Germany)</td>
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<td>Durie/Salmon and the Durie/Salmon PLUS staging system;</td>
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<td>08.30-08.40</td>
<td>CT perfusion can effectively monitor the effect of chemotherapy in patients with osteosarcoma;</td>
<td>M Horak, Z Ryznarova, M Kaspar (Czech Republic)</td>
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<td>08.40-08.50</td>
<td>Imaging diagnosis in differentiation of benign from malignant soft tissue musculoskeletal lesions;</td>
<td>VJN Vasilevska, A Gligorievski, N Kirijas, G Zafiroski, V Janevska (Macedonia)</td>
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<td>08.50-09.00</td>
<td>MRI imaging findings in early stage breast cancer patients treated with aromatase inhibitors</td>
<td>O Van Rillaer, L Morales, R Westhovens, P Neven, S Pans (Belgium)</td>
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<td>08.00-08.10</td>
<td>Preoperative knee MRI: multicenter trial of diagnostic effectiveness variability;</td>
<td>S Morozov, S Ternovoy, A Korolev (Russia)</td>
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<td>08.10-08.20</td>
<td>Can the quantitative MRI findings be used to predict the clinical outcome in patients undergoing</td>
<td>M Bankaoglu, M Erturk, B Gunaydin, T Eren, R Armagan, M Basak (Turkey)</td>
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<td>ACL reconstruction operation?;</td>
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<td>08.20-08.30</td>
<td>The role of contrast-enhanced MRI in the evaluation of the revascularization process of the anterior</td>
<td>A Ntoulia, F Papadopoulou, L Astrakas, S Ristanis, C Moraiti, M Argyropoulou, M</td>
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<td>cruciate ligament graft;</td>
<td>Geogouolis (Greece)</td>
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<td>08.30-08.40</td>
<td>Multidetector computed tomography arthrography of the knee: diagnostic accuracy and indications;</td>
<td>R Averna, M Onniboni, M De Filippo, F Pogliacomi (Italy)</td>
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### A10 - 3T MRI/Elbow

**Maestrale Room**

**Saturday 13 - 14.30-15.30**

**Moderators:** Filip Vanhoenacker (Antwerp, Belgium), Eva Llopis (Valencia, Spain)

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<td>3.0T MR Imaging of the Knee Meniscus: What about Equivocal Errors?; P Van Dyck, J L Gielen, FM Vanhoenacker, L Dossche, PM Parizel (Belgium)</td>
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<td>14.40-14.50</td>
<td>MRI of the knee at 3T – first clinical results with an isotropic PDfs-weighted 3D-TSE-sequence; M Notohamiprodjo, A Horng, M Pietschmann, W Horger, J Raya, J Park, MF Reiser, C Glaser (Germany, South Korea)</td>
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<td>14.50-15.00</td>
<td>Double Bundle ACL anatomy at 3 Tesla; MEAPM Adriaensen, BA Hogan, HIJ Al Bulushi, EC Kavanagh (The Netherlands, Ireland)</td>
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<td>15.00-15.10</td>
<td>Advanced 3T MRI of upper extremity nerves; G Kasprian, F Kainberger, P Brugger, H Engel, F Stuhr, O Aßmann, D Prayer (Austria)</td>
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<td>15.10-15.20</td>
<td>Effectiveness of conventional radiographs and CT in evaluating elbow stiffness; V Zubler, N Saupe, B Jost, CWA Pfirrmann, J Hodler, M Zanetti (Switzerland)</td>
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<td>15.20-15.30</td>
<td>Free projection of elbow joint on lateral x-rays: a modified technique; HG Städele, N Stjepanovic, S Duwell (Switzerland)</td>
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### B8 - Cartilage/Wrist

**Scirocco Room**

**Saturday 13 - 14.30-15.20**

**Moderators:** Nadja Saupe (Zurich, Switzerland), Roberto Caudana (Mantova, Italy)

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<td>14.30-14.40</td>
<td>MRI evaluation of cartilage repair in the knee using alginate beads containing human mature allogenic chondrocytes; AAM Dhollander, WCJ Huysse, PCM Verdonk, KL Verstraete, R Verdonk, G Verbruggen, F K F Almqvist (Belgium)</td>
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<td>14.40-14.50</td>
<td>T2 relaxation time of matrix-based autologous chondrocyte implantations — A 2 years follow-up; A Horng, I Pagenstert, M Pietschmann, T Mendlik, P Mueller, MF Reiser, C Glaser (Germany)</td>
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<td>14.50-15.00</td>
<td>How do osteochondral defects at the donor site change after osteochondral transplantation; a long term follow up MR imaging study including a microscopy coil; PR Kornaat, A Wymenga, M Reijnierse (The Netherlands)</td>
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<td>15.00-15.10</td>
<td>Radiocarpal versus distal radioulnar MR arthrography in the evaluation of the triangular fibrocartilage; A Gastaldo, S Carbone, D Buccicardi, E Palmelin, I Rossello, P Quadri (Italy)</td>
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<td>15.10-15.20</td>
<td>Carpal angles defined by the international wrist investigators workshop (IWIW): are they reliable; R Rahaman, B Rajesh, A Toms (UK)</td>
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Saturday 13 - 14.30-15.20

Moderators: Aysenur Oktay (Izmir, Turkey), Maryam Shahabpour (Brussels, Belgium)

14.30-14.40 The MRI appearances of local disease recurrence following hindquarter amputation; NA Kotnis, MAM Davies, SSLJ James (UK)

14.40-14.50 Normal post-operative MRI appearances following hindquarter amputation; NNA Kotnis, MAM Davies, S S L J James (UK)

14.50-15.00 Quantitative analysis of MRI perfusion parameters in healthy and pathologic bone marrow: initial results; GP Schmidt, SP Sourbron, A Biffar, O Dietrich, MF Reiser, A Baur-Melnyk (Germany)

15.00-15.10 Patterns of bone and muscle injury after high risk vaginal delivery compared to caesarian section; C J Brandon (USA)

15.10-15.20 Fatigue-type stress fractures of the lower limb associated with fibrous cortical defects/non-ossifying fibromas in the skeletally immature; CE Davies, A Shimal, S L James, M Davies (UK)
ELECTRONIC POSTERS (EPOS)

Bone

1 A retrospective analysis of bone and muscle metastatic disease.
E Tavernaraki, M Stassinopoulou, E Andriotis, A Tavernaraki (Greece)

2 Acetabular fractures: a pictorial review with emphasis on 3D modelling for defining patterns of injury for surgical planning.
M O Thomas, L King, W King (UK)

3 Age-related differences in bone density and strength assessed by pQCT at the tibia in post-menopausal Greek women
A P Balanika, C S Baltas, K Stathopoulos, O Papakonstantinou, G Skarantavos (Greece)

4 Apoptosis genes; potential biomarkers for osteoporosis
M J Shelly, P J MacMahon, J M O’Brien, J M O’Byrne, P P Doran, S J Eustace (Ireland)

5 Automatic bone texture differentiation in hr-pQCT data of bones affected by osteoporosis
A Valentintisch, G Langs, J Patsch, F Kainberger (Austria)

6 Bipartite patella: radiologic findings
B . Acu, T . Pinarbasili, M . Guven, M . Firat (Turkey)

7 Bone marrow mr imaging changes in hiv-infected subjects with lipodystrophy
A A I Garcia, A A Milinkovic, X X Tomas, J J Rios, J J Pomes, M M Del Amo, J J Mallolas (Spain)

8 Clinical utility of computed tomography in radiographically suspect and occult hip fracture a pilot study
D Dunker, D Collin, J H Göthlin, M Geijer (Sweden)

9 Comparison of Diffusion Weighted and Dynamic Enhanced Subtracted MRI with Bone Scintigraphy in the Diagnosis and Prognosis of Perthes Disease
J J P W Willi, L L M Merlini, C CC Combescure, O O R Rager, D C D W Crook, H H I Imperiano, O O R Ratib (Switzerland)

10 Erosions, but not bone marrow edema or contrast medium enhancement, are specific features in MRI of ankylosing spondylitis patients
Wick, R J Weiss, W Jaschke, A S Clauser (Austria, Sweden)

11 Ewings Sarcoma the most common primary malignant bone tumor in the first decade. Imaging features on radiography, CT and MRI.
J C J T Campos, D D R Rocha, S P S Preto, R R Ramos, A A V Vieira (Portugal)

12 Extremities bone tumors: a pictorial review
E Tavernaraki, M Stassinopoulou, E Andriotis, A Tavernaraki (Greece)

13 Giant cell tumour of the second metatarsal in a child: case report and review of literature
N Ramesh (Ireland)

14 Local bone architecture in male patients with osteoporotic hip fractures
J Patsch, M Mousavi, L Hornek, S Salem, P Becker, S Becker, H Imhof, C Schueler-Weidekamm, P Pietschmann, F Kainberger (Austria)
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<td>Magnetic Resonance Elastography in Trabecular Bone: Initial Experience</td>
<td>H C J McGregor, J Chen, Y K Mariappan, R L Ehman (USA)</td>
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<td>Metatarsal stress fractures: occasional ultrasound (US) diagnosis</td>
<td>L L Callegari, E E Spanò, L A L Mocciardini, M M Barresi, E E Genovese, C C Fugazzola (Italy)</td>
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<td>Multifocal skeletal cystic tuberculosis; a case report</td>
<td>S Juhng, K Kim, Y Lee, H Kim, S Park (Republik of Korea)</td>
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<td>Os supratrochleare dorsale: MRI findings</td>
<td>B Acu, M Guven, T Pinarbasili, M Firat (Turkey)</td>
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<td>Osteoid Osteoma: pursuing the path from symptoms to diagnosis</td>
<td>R Ramos, M Pimenta (Portugal)</td>
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<td>Osteoid osteoma: the key imaging findings in conventional radiology, CT and bone scans</td>
<td>JTC Campos, MA Vasconcelos, DR Rocha, AC Carneiro, PS Sousa, A Madureira (Portugal)</td>
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<td>Osteolytic lesion anterior in the tibia of a fourteen year-old girl</td>
<td>V I V Lambrecht, W C J W Huysse, K K L Verstraete (Belgium)</td>
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<td>Patella: spectrum of pathology and imaging findings</td>
<td>J J M Pires, J A J Aguilar, J J Reis, L L Fernandez, A A Pires, G G Fernandez; Portugal (Spain)</td>
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<td>pQCT analysis of low dose statins effects on healing of rabbit ulnar fractures</td>
<td>A P Balanika, C S Baltas, G Skarantavos, D Chissas (Greece)</td>
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<td>Scapular fractures: a pictorial review with reference to prognosis and management</td>
<td>MO Thomas, LJ King, S Cook, A Cole, C Hand (UK)</td>
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<td>Tenosynovial giant cell tumors of the hand: MRI findings</td>
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<td>The analysis of limb shortening in the course of solitary bone treatment</td>
<td>A A I Igrys-O’Byrne, M G M Glowacki, I I Igns, K K W Wroblewska (Poland)</td>
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<td>28</td>
<td>The utility of MRI in occult hip fracture</td>
<td>D Collin, D Dunker, J H Göthlin, M Geijer (Sweden)</td>
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<td>29</td>
<td>Virtual surgery of bone tumors with multislice CT</td>
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<td>3D high-resolution volumetry of in-vivo cartilage deformation of the knee at 3T after kneeling</td>
<td>A A H Horng, J J Raya, M M Zscharn, U U Hoehne-Hueckstaedt, I I Hermanns, U U Glitsch, R P R Ellegast, M F M Reiser, C C Glaser (Germany)</td>
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<td>A bi-lingual online video lecture for multiplanar MRI anatomy of the shoulder</td>
<td>S Waldeck, C Von Falck, K Blum, D Veit, M Galanski, H Rosenthal (Germany)</td>
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<td>Can the quantitative MRI findings be used to predict the clinical outcome in patients undergoing ACL reconstruction operation?</td>
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<td>G E G M Sempere Campello, M A I M R Dobado, A A E G N Clavero, X A I V X Alomar, J E J O S Monill, S A S U Bordegaray (Spain)</td>
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44 Emerging diagnostic and surgical challenges for the hip and ankle from long term bisphosphonate therapy for osteoporosis
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45 Evaluation of lateral ankle instability with weight-bearing MRI. Preliminary experience
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49 How do osteochondral defects at the donor site change after osteochondral transplantation; a long term follow up MR imaging study including a microscopy coil.
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50 How does Ultrasound compare to MRI in the diagnosis of symptomatic shoulder rotator cuff tears? An evidence based review.
M R Moynagh, M J Shelly, E Kavanagh (Ireland)

51 How to improve image quality in shoulder MRI BLADE vs. TSE
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52 Lateral elbow tendinopathy: correlation of ultrasound findings with pain and functional disability.
A W Clarke, D A Connell (UK)

53 Magnetic resonance imaging characteristics of knees of a healthy population and of early knee osteoarthritis and the relation to pain and disability
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54 Magnetic Resonance Imaging Findings of Shoulders in Parkinson Disease
A Yucel, O Yilmaz Kusbeci (Turkey)

55 Magnetic resonance imaging in the assessment of fluid collections of infected hip prostheses: preliminary results
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57 MR imaging of muscle denervation around the hip and shoulder joints
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58 MR Imaging of subchondral lesions of the hip: self-resolving subchondral conditions.

59 MR imaging of the meniscal bucket handle tears in the knee joint
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60 Tears of the Supraspinatus Tendon: Assessment with Indirect Magnetic Resonance Arthrography in 67 Patients with Arthroscopic Correlation.
P Van Dyck, JL Gielen, FM Vanhoenacker, J Weyler, F Van Glabbeek, M Maas, HJ van der Woude, PM Parizel (Belgium, The Netherlands)

61 MRI and radiographic findings after 10 years in patients with non-acute knee complaints: determination of risk for the development of osteoarthritis.
K Huétink, R R G H Nelissen, A R van Erkel, J Watt, J L Bloem (The Netherlands)

62 MRI and Ultrasound findings with pathologic correlation of nodular synovitis of the knee: a case report
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63 MRI Evidence of Synovitis in Osteoarthritis: a review
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64 MRI imaging of partial or complete acute anterior cruciate ligament tears and concomitant injuries in 187 military recruits.
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65 Multidetector CT-arthrography of the knee: diagnostic accuracy and indications
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66 Multidetector CT-arthrography of the shoulder: diagnostic accuracy and indications
M Onniboni, R Averna, M De Filippo, F Pogliacomi (Italy)

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68 Posterolateral corner injuries of the knee - Why are they important?
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69 Relationship of clinical symptoms and imaging findings in patients with sub-baccomial impingement
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70 Safety of intra-articular hip injection by ultrasound guidance
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71 Sensitivity and specificity of MRI signs in evaluating bucket-handle meniscal tears of the knee
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72 Sonographic examination following shoulder replacement prosthesis
J Oommen (UK)

73 The Analysis of Meniscal Extrusion and Its Connection with Knee Joint Abnormalities
D Kiresi, E Ertekin, M Yel, S Acikgozoglu (Turkey)

74 The contribution of hip joint MR arthrography in evaluation of clinically suspicious labral pathology in sport injuries and other co-existent pathology and differential diagnosis - Study of 24 patients
M Natsika, I Katsimilis, H Patsopoulos (Greece)

75 The Effectiveness of Dynamic MR Imaging for Diagnosis of Early-Stage Rheumatoid Arthritis
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## COMUNICAZIONI

### Moderatori:
- Mario Canepari *(Pavia, Italia)*
- Michele Solarino *(Bari, Italia)*

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**18.00-19.00**  **ASSEMBLEA GENERALE E CONSEGNA PREMI**
11 giugno 2009

07.30-08.30 Registrazione
08.30-08.45 **Inaugurazione** Sala Maestrale
08.45-10.45 **FOCUS POINT - LA MICROINSTABILITA ARTICOLARE**
   Modulo interattivo con "televoter"
   **Moderatori:** Carlo Faletti (Torino, Italia)
                   Giacomo Garlaschi (Genova, Italia)
   **Spalla:** Guido Regis (Torino, Italia)
              Francesco Di Pietto (Napoli, Italia)
   **Ginocchio:** Alberto Bellelli (Roma, Italia)
                Massimo De Filippo (Parma, Italia)
   **Polso:** Leonardo Callegari (Varese, Italia)
             Vincenzo Spina (Cari, Italia)
   **Retropiede:** Eugenio Genovese (Varese, Italia)
                Marcello Zappia (Napoli, Italia)

10.45-13.00 **WORKSTATION SESSION** Sala Maestrale
   **IMAGING DEL RACHIDE E TESSUTI MOLLI**
   Training di refertazione con Docente
   **Coordinatori:** Angelo Iovane (Palermo, Italia)
                     Carlo Martinoli (Genova, Italia)
   **Docenti W-S 1:** Antonello Leone (Roma, Italia)
                      Armanda De Marchi (Torino, Italia)
   **COMUNICAZIONI**
   **Moderatori:** Giuseppe Balconi (Milano, Italia)
                   Marco Mastantuono (Roma, Italia)

10.45-13.00 **WORKSTATION SESSION** Sala Scirocco
   **IMAGING IN REUMATOLOGIA**
   Training di refertazione con Docente.
   **Coordinatori:** Angelo Iovane (Palermo, Italia)
                     Carlo Martinoli (Genova, Italia)
   **Docenti W-S 2:** Giacomo Garlaschi (Genova, Italia)
                     Fabio Martino (Bari, Italia)
   **COMUNICAZIONI**
   **Moderatori:** Paolo Bagnolesi (Cecina, Italia)
                   Alessandro Scelzi (Barletta, Italia)

10.45-13.00 **WORKSTATION SESSION - IMAGING E SPORT** Sala Libeccio
   Training di refertazione con Docente
   **Coordinatori:** Angelo Iovane (Palermo, Italia)
                     Carlo Martinoli (Genova, Italia)
   **Docenti W-S 3:** Luca De Flaviis (Milano, Italia)
                     Giuseppe Monetti (Bologna, Italia)
Con il patrocinio di

Regione Liguria

European Society of Musculoskeletal Radiology

Informazioni Generali
DATA: CONGRESSO SIRM: 11 giugno 2009
CONGRESSO ESSR: 11-13 giugno 2009

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Centro Congressi Magazzini del Cotone - Area Porto Antico

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Il congresso Nazionale della Sezione di Muscoloscheletrica è accreditato per 5 punti.
Il 16\textsuperscript{th} Annual Congress ESSR è accreditato per 12 punti

SEGGIO ELETTORALE
Il seggio sarà aperto dalle ore 13.00 alle ore 15.00

SEGRETERIA ORGANIZZATIVA
In sede congressuale da giovedì a sabato dalle ore 7.30 -19.30

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Programma

Genova,
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