ERASMUS COURSE
EMRI – BEIRUT – APRIL 4-8, 2013

PROGRAM
Musculoskeletal and Neuroradiology Modules

MSK MODULE

Faculty: Hans BLOEM (The Netherlands), Antoine HADDAD (Lebanon), Ara KASSARJIAN (Spain), Nabil KHOURY (Lebanon), Frederick LECOUVET (Belgium), Eugene McNALLY (United Kingdom), Mary SHAHABPOUR (Belgium).

Thursday April 4, 2013

08.00 - 08.45 Registration
08.45 – 09.00 Welcome – learning objectives and content of the course
09.00 – 09.30 Knee Part I: menisci and ligents
          Dr Mary Shahabpour
09.30 – 10.00 Knee Part II: post-operative evaluation
          Dr Antoine Haddad
10.00 - 10.30 Ankle
          Dr Mary Shahabpour
10.30 – 10.40 Question and Answer
10.40 – 12.30 Small groups interactive teaching 1 including coffee and refreshments
          Drs Mary Shahabpour, Eugene McNally, and Antoine Haddad
12.30 – 13.45 Lunch and symposium: “update on MR contrast media”;
          Sponsored by GE Healthcare
13.45 – 14.15 Shoulder part I: ultrasound and MRI of supraspinatus tear
          Dr Eugene McNally
14.15 – 14.45 Shoulder part II: instability
          Dr Eugene McNally
14.45 – 15.00 Question and Answer
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.00 – 15.30</td>
<td>Hip pain: intra-articular causes including femoro-acetabular impingement</td>
</tr>
<tr>
<td></td>
<td>Dr Ara Kassarjian</td>
</tr>
<tr>
<td>15.30 – 16.15</td>
<td>MSK ultrasound with live demo</td>
</tr>
<tr>
<td></td>
<td>Dr Eugene McNally</td>
</tr>
<tr>
<td>16.15 – 16.20</td>
<td>Question and Answer</td>
</tr>
<tr>
<td>16.20 – 18.15</td>
<td>Small groups interactive teaching 2 including coffee and refreshments</td>
</tr>
<tr>
<td></td>
<td>Drs Mary Shahabpour, Ara Kassarjian, and Nabil Khoury</td>
</tr>
<tr>
<td>18.15 – 20.30</td>
<td>Welcome Reception</td>
</tr>
</tbody>
</table>

**Friday April 5, 2013**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.50 – 09.00</td>
<td>Morning Review</td>
</tr>
<tr>
<td>09.00 – 09.30</td>
<td>Musculoskeletal tumors: diagnosis and staging</td>
</tr>
<tr>
<td></td>
<td>Dr Hans Bloem</td>
</tr>
<tr>
<td>09.30 – 10.00</td>
<td>Musculoskeletal tumors: treatment response and recurrence</td>
</tr>
<tr>
<td></td>
<td>Dr Hans Bloem</td>
</tr>
<tr>
<td>10.00 – 10.30</td>
<td>Hip and groin pain: extra-articular causes</td>
</tr>
<tr>
<td></td>
<td>Dr Ara Kassarjian</td>
</tr>
<tr>
<td>10.30 – 10.40</td>
<td>Question and Answer</td>
</tr>
<tr>
<td>10.40 – 12.30</td>
<td>Small groups interactive teaching 3 including coffee and refreshment</td>
</tr>
<tr>
<td></td>
<td>Drs Hans Bloem, Ara Kassarjian, and Frederic Lecouvet</td>
</tr>
<tr>
<td>12.30 – 14.30</td>
<td>Lunch – Philips Workshop Group A</td>
</tr>
<tr>
<td>14.30 – 15.00</td>
<td>Whole body MRI: (with DWI): why I do it, how I do it, how I read it</td>
</tr>
<tr>
<td></td>
<td>Dr Frederic Lecouvet</td>
</tr>
<tr>
<td>15.00 – 15.30</td>
<td>Bone metastasis: assessment of response using MRI (with PET correlations)</td>
</tr>
<tr>
<td></td>
<td>Dr Frederic Lecouvet</td>
</tr>
<tr>
<td>15.30 – 16.15</td>
<td>Musculoskeletal infections</td>
</tr>
<tr>
<td></td>
<td>Dr Hans Bloem</td>
</tr>
<tr>
<td>16.15 – 16.30</td>
<td>Question and Answer</td>
</tr>
<tr>
<td>16.30 – 18.30</td>
<td>Small groups interactive teaching 4 including coffee and refreshment</td>
</tr>
<tr>
<td></td>
<td>Drs Ara Kassarjian, Frederic Lecouvet, and Antoine Haddad</td>
</tr>
</tbody>
</table>
Saturday April 6, 2013

08.35 – 08.45  Morning Review

08.45 – 09.15  Spine: degenerative and inflammatory disease
Dr Antoine Haddad

09.15 – 10.15  Challenging cases from the attendees
Dr Nabil Khoury

10.15 – 11.30  Small groups interactive teaching 5 including coffee and refreshments
Drs Mary Shahabpour, Antoine Haddad, and Nabil Khoury

11.30 – 12.30  Test and Corrections

12.30 – 14.30  Lunch – Philips Workshop Group B

NEURO MODULE

Faculty:  Eric ACHTEN (Belgium), Bart EMMER (The Netherlands), Roula HOURANY-RIZK (Lebanon), Paul PARIZEL (Belgium), Majda THURNHER (Austria)

Saturday April 6, 2013

14.30 – 15.15  Diffusion tensor and diffusion weighted imaging
Dr Paul Parizel

15.15 – 16.00  Perfusion imaging and quantification basics
Dr Eric Achten

16.00 – 16.15  Coffee Break

16.15 – 17.00  Imaging in acute stroke
Dr Paul Parizel

17.00 – 17.45  Neuroimaging of epilepsy
Dr Roula Hourany-Rizk

17.45 – 19.15  Small groups interactive teaching 6 including coffee and refreshments
Drs Paul Parizel, Majda Thurnher, and Roula Hourany-Rizk
Sunday April 7, 2013

08.50 – 09.00   Morning Review

09.00 – 09.45   MR spectroscopy applications in neuroradiology
                 Dr Eric Achten

09.45 – 10.30   White Matter diseases
                 Dr Bart Emmer

10.30 – 10.50   Coffee Break

10.50 – 11.30   Brain tumors of the adult: state-of-the-art imaging
                 Dr Roula Hourany-Rizk

11.30 – 12.00   Spinal cord: tumors vs non-tumoral lesions
                 Dr Majda Thurnher

12.00 – 14.00   Lunch – Philips Workshop Group C

                 Dr Paul Parizel

14.45 – 15.30   Infectious diseases
                 Dr Majda Thurnher

15.30 – 16.00   Coffee Break

16.00 – 16.45   Functional MR imaging of the brain
                 Dr Eric Achten

16.45 – 17.30   Aging and dementia: the role of neuroimaging
                 Dr Bart Emmer

17.30 – 19.15   Small groups interactive teaching 7 including coffee and refreshments
                 Drs Majda Thurnher, Bart Emmer, and Roula Hourany

20.30 – 22.30   Gala Dinner
Monday April 8, 2013

08.50 – 09.00 Morning Review
09.00 – 09.45 Challenging cases from the teachers
09.45 – 10.45 Challenging cases from the attendees
Moderators: Drs Eric Achten, and Bart Emmer
10.45 – 11.00 Coffee Break
11.00 – 12.45 Small groups interactive teaching 8
Drs Paul Parizel, Majda Thurnher, and Roula Hourany-Rizk.
12.45 – 14.00 Lunch
14.00 – 15.30 Examination and corrections
15.30 – 16.15 Quality in neuroradiology
Dr Eric Achten
16.15 – 17.00 Certificates and Closure

Philips Workshop includes Brain Diffusion with ADC map, Brain Perfusion, fMRI and Post Processing.