

Programme ESMRMB - School of MRI Advanced Cardiac MR Imaging September 2-4, 2010, Hamburg/DE

Thursday, September 2, 2010

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| 07:15 – 08:00 | Registration |
| 08:00 – 09:00 | Topic 1: Basic Principles of Cardiac MRI
O. Weber, Basel/CH <ul style="list-style-type: none">- Spin-echo, Gradient-echo- Triggering, gating- Resolution of time, space, contrast- Coronaries- Contrast modulation by preparation pulses |
| 09:00 – 10:00 | Topic 2: Protocols step-by-step, Safety, Setup for Stress
J. Bremerich, Basel/CH <ul style="list-style-type: none">- Setup for stress test- Safety considerations- Dedicated protocols- Cooperation Radiology/Cardiology/Physics |
| 10:00 – 10:30 | Coffee break |
| 10:30 – 12:30 | Repetition of Topic 1, 2, 3 and 4 in groups |
| 12:30 – 13:30 | Lunch |
| 13:30 – 14:30 | Topic 3: Cardiac-CT
A. de Roos, Leiden/NL <ul style="list-style-type: none">- Basic principles- Coronaries- Calcium Score- Valves- Postprocessing |
| 14:30 – 15:30 | Topic 4: Pharmacology
J. Fröhlich, Zurich/CH <ul style="list-style-type: none">- Contrast media, facts and trends- Beta-Blocker- Adenosine- Dobutamine |

15:30 – 16:00 Coffee break

16:00 – 18:00 Repetition of Topic 1, 2, 3 and 4 in groups

Friday, September 3, 2010

08:00 – 09:00 Topic 5: Ischemic heart disease: Infarct, Viability, Perfusion, Stress

H. Arheden, Lund/SE

- Function
- Perfusion
- Infarct, Viability, Late enhancement

**09:00 – 10:00 Topic 6: Cardiac Infiltration, Deposition, Inflammation
P. Hunold, Lübeck /DE**

- T2* weighted sequences, Late Enhancement
- Sarcoidosis
- Amyloidosis
- Hemosiderosis, Thalassemia
- Myocarditis

10:00 – 10:30 Coffee break

10:30 – 12:30 Repetition of Topic 5, 6, 7 and 8 in groups

12:30 – 13:30 Lunch

**13:30 – 14:30 Topic 7: Congenital and valvular heart disease
D. Didier, Geneva/CH**

- Segmental analysis
- Grown up congenital heart disease
- MR or CT
- Regurgitation, Insufficiency

**14:30 – 15:30 Topic 8: Heart failure, cardiomyopathy, ARVC
P. Buser, Basel/CH**

- Pathophysiology
- ARVC
- Non compaction

15:30 – 16:00 Coffee break

16:00 – 18:00 Repetition of Topic 5, 6, 7 and 8 in groups

Saturday, September 4, 2010

- 08:30 – 09:30 Topic 9: Cardiac masses, pericardial disease**
G. Lund, Hamburg/DE
- Systematic approach
- Benign and malignant tumours, metastasis, thrombus
- Acute vs. chronic pericarditis
- 09:30 – 10:00 Quiz (optional)**
- 10:00 – 10:30 Coffee break**
- 10:30 – 12:00 Topic 10: MRI or CT: Strengths & Limitations**
A. Madureira, Porto/PT
- Role of MRI as compared to CT
- Interactive case review