

PROGRAMME

ESMRMB SCHOOL OF MRI – A Coruña, ES

Advanced Clinical MR Angiography

October 21-23, 2010

Thursday, October 21

7.30 - 8.15 Registration

8.15 - 8.30 Introduction

A. van der Lugt

The technical basis of MRA

8.30 - 9.15 **T1: Non contrast-enhanced MRA**
technical background and applications
- TOF
- PC-MRA, PC Flow measurements
- Balanced SSFP, TrueFISP, FIESTA
- FBI, TRANCE

L. Geerts

9.15 - 10.15 **T2: CEMRA, k-space strategies for MRA**

P. Wielopolski

10.15 – 10.45 Coffee Break

10.45 - 11.45 **T3: Black-blood techniques**
- Technical background
- Applications

P. Wielopolski

11.45 - 12.30 **T4: Image processing**
- Vascular MR techniques
- Visualisation
- Quantification
- Segmentation

R.J. van der Geest

12.30-13.30 Lunch

13.30-14.30 **T5: Intracranial circulation**
Techniques
1.5 T vs 3.0T
Diseases :aneurysms, AVM, stenosis / stroke,
sinus thrombosis, vasculitis

W. Willinek

14.30 - 15.00 Break

15.00 - 18.00 Repetitions topic 1-5

Friday, October 22 (clinical lectures)

8.30-9.15	T6: Carotid arteries and plaque imaging <ul style="list-style-type: none">- Techniques- Post-processing- Diseases: atherosclerosis, FMD, dissection, vasculitis- Plaque imaging	A. van der Lugt
9.15-10.00	T7: Contrast agents <ul style="list-style-type: none">- Overview of agents- Risks (NSF)	T. Leiner
10.00-10.30	Break	
10.30 - 11.15	T8: Spinal arteries <ul style="list-style-type: none">- Techniques / validation- Diseases: Vascular malformations- Diseases: Pre-operative imaging in TAAA-MR vs CT	W. Backes
11.15 - 12.00	T9: Thoracic aorta / Pulmonary vessels <ul style="list-style-type: none">- Aortic arch and supra-aortic arteries- Thoracic aorta- Pulmonary arteries and veins- 1.5T vs 3.0T	T. Leiner
12.00 - 12.30	T10: Coronary MRA <ul style="list-style-type: none">- Techniques- Clinical examples	T. Leiner
12.30-13.30	Lunch	
13.30-17.30	Repetition of topic 6 – 10	

Saturday, October 23

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| 8.30 - 9.15 | T11: Abdominal vessels / Renal arteries <ul style="list-style-type: none">- Techniques- 1.5 T vs 3.0T- Aorta: stenosis, aneurysm- Renals: Stenosis, variants, FMD, pretransplant | U. Attenberger |
| 9.15 - 10.00 | T12: Peripheral and Whole Body MRA <ul style="list-style-type: none">- Techniques- 1.5 T vs 3.0T | J. Meaney |
| 10.00-10.30 | Lunch | |
| 10.30-12.30: | Repetition of topic 11- 12 | |
| 12.30-13.00 | Quiz /exam | |