

Myocardial tissue characterization using parametric MRI

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June 29th 2017 from 1pm - June 30th 2017 to 6pm or
November 23th 2017 from 1pm - November 24th 2017 to 6pm

This workshop offers dedicated training on the principles and applications for quantitative tissue characterization using T1, T2, and T2* mapping techniques. The course focuses on advantages and limitations of novel pulse sequences for parametric mapping and their clinical applications for assessing fibrotic, inflammatory and infiltrative cardiomyopathies, myocardial edema and iron overload.

PROGRAMME OVERVIEW:

course directors :
PD Dr. Daniel Messroghli
PD Dr. Rolf Gebker

Thursday, Technical background

13.00 – 13.10	Introduction/welcome
13.10 – 13.30	Clinical role and limitations of conventional MRI in myocardial disease
13.30 – 14.00	Myocardial T1, T2 and T2*: Physics and experimental data
14.00 – 14.45	Pulse sequences and post-processing
14.45 – 15.15	Coffee break
15.15 – 16.15	Live scanning: T1, T2 and T2* measurements in phantoms
16.15 – 17.00	Hands-on post-processing and analysis of the phantom data

Friday, Clinical application

08.30 - 09.30	Application of cardiac T1 mapping and ECV
09.30 - 10.00	Application of cardiac T2 and T2* mapping
10.00 - 10.30	Coffee break
10.30 - 11.00	MRI protocols and normal values
11.00 – 11.30	Parametric analysis using CVI42 (Circle)
11.30 – 12.30	Live scanning: Case 1
12.30 – 13.30	Lunch break
13.30 - 14.30	Live scanning: Case 2
14.30 - 15.30	Hands-on analysis of the live cases
15.30 – 16.00	Coffee break
16.00 – 17.00	Hands-on analysis of previous cases
17.00 – 17.15	Summary



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