Myocardial tissue characterization using parametric MRI

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March 01th 2018 from 1pm - March 02th 2018 to 6pm and
November 22th 2018 from 1pm - November 23th 2018 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.

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

PROGRAMME OVERVIEW:

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

circle CARDIOVASCULAR IMAGING

Society for Cardiovascular Magnetic Resonance

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