**Program QCMR course **Leiden, October 9 & 10, 2018

**DAY 1**

09.00 am **Welcome / Introduction -** *Johan H.C. Reiber, Ph.D.*

09.15 am **Basics of CMR – Overview of CMR as a single, comprehensive non-invasive imaging solution –** *Kayleigh Dukker, MSc*

09.45 am **Cardiovascular anatomy, slice planning and indications for CMR -** *David Hautemann, MSc*

10.00 am **Hands-on Medis Suite workflow and viewing** *- Faculty*

10.30 am **Coffee / tea break**

10.45 am **Ventricular volumetry – LV and RV function -** *Kayleigh Dukker, MSc*

11.15 am **Hands-on LV/RV function -** *Faculty*

12.15 pm **Lunch**

01.15 pm **PC flow – valvular heart disease and flow assessment -** *Kayleigh Dukker, MSc*

01.45 pm **Hands-on PC Flow -** *Faculty*

02.45 pm **MR as a tool to guide ablation procedures -** *Rob van der Geest, PhD*

03.15 pm **Coffee / tea break**

03.30 pm **Myocardial perfusion -** *Rob van der Geest, PhD*

04.15 pm**Hands-on myocardial perfusion** - *Faculty*

05.15 pm **Adjourn**

06.00 pm **Social evening (including dinner) in Leiden**

**DAY 2**

09.00 am **Recap and questions day 1 -** *Faculty*

09.15 am **Tissue characterization (TC 1.0): quantification using T2w, and LGE methods -***David Hautemann, MSc*

09.45 am **Hands-on on Tissue characterization (TC 1.0)** *- Faculty*

10.30 am **Coffee / tea break**

10.45 am **Tissue characterization QMap (TC 2.0): Quantitative CMR methods: T1, T2 mapping and ECV -** *Kayleigh Dukker, MSc*

11.15 am **Hands-on on Tissue characterization TC 2.0** - *Faculty*

12.00 pm **Lunch**

01.00 pm **QStrain** *- David Hautemann, MSc*

01.30 pm **Hands-on QStrain -** *Faculty*

02.30 pm **Coffee / tea break**

02.45 pm **Ischemic or non-Ischemic cardiomyopathy –** *Tim Leiner, MD, PhD*

03.30pm**Written examination**

04.00 pm **Hands-on cases -** *Faculty*

04.30 pm **Final discussion / hand-out of certificates -** *Johan H.C. Reiber, Ph.D.*

04.45 pm **End of Course / Adjourn**