University of São Paulo – Ribeirão Preto Medical School
Cardiovascular Magnetic Resonance Group

Location

• University of São Paulo, Ribeirão Preto Medical School
• University Hospital of Ribeirão Preto.
• Ribeirão Preto city, in the northeastern region of São Paulo state, Brazil.

Founding

• 2008; approximately 2,000 cardiovascular magnetic resonance (CMR) exams performed using Phillips Achieva 1.5T.

Ongoing CMR program:

• Our group offers a CMR training program for one fellow per year, including clinical training and research activities in CMR field.

Directors:

Prof. André Schmidt, MD, PhD (Division of Cardiology)
Prof. Marcel Koenigkam Santos, MD, PhD (Division of Radiology)

Attending Physicians:

Danilo T. Wada, MD
Gustavo J. Volpe, MD, PhD
Henrique S. Trad, MD
Henrique T. Moreira, MD, PhD
Leonardo F. Zancaner, MD
Maria Fernanda B. Santos, MD, MSc

Cooperation with Other Groups:

• Dr. André Schmidt, Dr. Gustavo J. Volpe and Dr. Henrique Turin Moreira have been trained at the Johns Hopkins University and are involved in research activities with Dr. João Lima in Baltimore, MD.
• Dr. Marcel K. Santos and Dr. Maria Fernanda B. Santos have been trained at Heidelberg University (Heidelberg, Germany) and are involved in research activities with Heidelberg team.

Clinical focus:

• Ventricular function and myocardial tissue characterization, especially for ischemic heart disease and cardiomyopathies, such as Chagas heart disease.
• Myocarditis, pericardium diseases, masses and tumors, congenital heart diseases and quantification of valve diseases.

Research Focus:

• Myocardial fibrosis and grey zone assessment in Chagas heart disease.
• Right ventricular function evaluation in cardiomyopathies using advanced techniques, such as myocardial tissue tagging and feature tracking.
• Quantification of mitral and aortic regurgitations: comparisons with echocardiographic techniques.
• Evaluation of myocardial iron overload in Talassemia and sickle cell disease.

Our Vision of CMR in 20 years

• CMR will be used as a routine tool for diagnostic and prognostic in cardiomyopathies, and will probably be the principal exam to define the indication of ICDs and resynchronization therapy.
• Fusion imaging with nuclear medicine for heart failure patients is expected by us to add information in clinical management.

Favorite abstracts and papers from our group:


Contact: aschmidt@fmrp.usp.br