A young and dynamic qualified CMR team

5 Senior consultants: Dr François Pontana, MD, PhD, Associate Professor of Radiology (Head of Department), Dr Valentina Silvestri, Dr Julien Pagniez, Dr Benjamin Longère & Dr Arianna Simeone

1 Fellow: Dr Alexandre Bridoux

7 Residents

7 Technologists

State-of-the-art medical system including 1.5 T MRI system with high strength gradients (Magnetom, Aera, Siemens)

Main research focus

Compressed Sensing real-time cine imaging: Can it accurately assess ventricular and valvular function in clinical routine?
Compressed sensing single-breath-hold cine imaging provides LV function, volumes and mass as well as RV function and volumes, which are comparable to the conventional SSFP multi-breath-hold imaging without significant loss of information regarding the detection of contractility disorder or valvulopathy. Accepted as a poster at the SCMR 2017 Annual Scientific Sessions

Compressed Sensing real-time cine imaging: Right ventricle evaluation in congenital heart disease.
Compressed sensing real-time cine imaging enables, in one breath-hold, an accurate assessment of RV function and volumes in patients with CHD in comparison with standard SSFP imaging, allowing an improvement in time efficiency and patient comfort. Accepted as a poster at the SCMR 2017 Annual Scientific Sessions

Epicardial adipose tissue: quantity and quality impacting on cardiac function.