**Our vision of CMR in the future**

From a clinical perspective, in our vision of the future CMR will increasingly be integrated in advanced cardiac imaging units which will be part of multidisciplinary teams involved in patients care. The key step to cure patients is to reach the correct diagnosis and this in turn will determine therapeutic options; CMR already has and will increasingly have a pivotal role in this process.

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**CMR UNIT Collaborations**

- **CMR UNIT**
- **Niguarda Hospital**
- **Centre for Congenital Anemias Policlinico - Milano**
- **Siemens - Lausanne, Switzerland**
- **MR coronary angiography**

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**CMR Unit activity**

**Clinical activity**

- Scans
- Case mix
- Cardiomyopathy (17%)
- Ischemic Heart Disease (20%)
- Thalassemia (38%)
- Congenital (14%)
- Other (17%)

**Clinical research**

- Prognosis assessment in non-compaction cardiomyopathy
- Influence of different chelation regimens on cardiac function in thalassemia
- Iron cardiotoxicity in STEMI

**Major past projects**

- Prognosis in acute myocarditis (Multicentre Study in Lombardy Region, Italy)
- Evolution of myocardial tissue composition in HTX
- T1-mapping in thalassemia

**Major current projects**

- Prognosis in arrhythmogenic right ventricular cardiomyopathy
- Cardiac disease in orthotopic heart transplant
- T1-mapping in thalassemia

**Education**

- National congress on CMR (5 editions)
- Course on CMR theory & practice
- Hands-on CMR course (practical training)
- Regular education program on CMR for cardiology fellows

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**CMR Unit staff**

**Present staff**
- Patrizia Pedrotti, MD
- Angela Milazzo, MD
- Giuseppina Quattrocchi, MD
- Paola Sormani, MD (fellow)

**Past staff**
- Alberto Roghi, MD
- Stefano Pedrelli, MD
- Santo Dellegrottaglie, MD

**Collaborations**
- Dr Ornella Rimoldi, MD (National Research Council, Milan)
- Davide Riccì, MSc (Siemens, Lausanne)

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**Representatives of our techs and nurses**

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**Selected papers**

- Prognostic impact of late gadolinium enhancement in the risk stratification of heart transplant patients (Eur Heart J Cardiovasc Imaging 2016)
- Long-Term Prognostic Value of Cardiac Magnetic Resonance in Left Ventricle Noncompaction: A Prospective Multicenter Study (JACC 2016)
- Cardiac iron removal and functional cardiac improvement by different iron chelation regimens in thalassemia major patients (Ann Hematol 2012)

**Selected abstracts**

- Comparison of myocardial T1 mapping techniques at 1.5 T to detect interstitial fibrosis in patients with orthotopic heart transplant (SCMR 2014)
- Comprehensive myocardial tissue characterization with cardiac magnetic resonance in patients with Churg Strauss Syndrome (SCMR/EuroCMR 2015)
- Incremental value of cardiac magnetic resonance in the characterization of unselected patients referred to exclude arrhythmogenic right ventricular cardiomyopathy (SCMR 2009)