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Shah, MD) Sep. 29, 2015 How

to assess cardiac

amyloidosis with CMR

(cardiac magnetic resonance

imaging) Recent Advances in

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Resonance Imaging (Michael

Markl, Ph.D.) Nov. 19, 2015

The fundamentals of left
ventricular assessment in
cardiac magnetic resonance
imaging (CMR) David Lin -
Mapping the Future of Cardiac

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~~Magnetic Resonance Imaging
(CMR) - 10/02/2017 Cardiac
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Resonance Imaging (Chun Lin,
MD, PhD)~~ Get your EACVI
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Magnetic Resonance

Quantitative cardiac
magnetic resonance imaging
using machine learning

*Advanced Cardiac Imaging:
Cardiac Magnetic Resonance
(CMR) | HKUx on edX.org*

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Dangers Of Magnetic

Resonance Imaging -- The

Risks Of An MRI **Cardiac MRI:**

**What you should know if your
doctor orders a cardiac MRI**

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Late Gadolinium Enhancement

(LGE) Magnetic Resonance

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~~Imaging Explained MRI: What
to Expect Cardiac MRI in
Valvular Heart Disease~~

~~Cardiac MRI: Basic Concepts
and New Developments (JOÃO
L. CAVALCANTE, MD) How to
perform a cardiac MRI study
MRHeart tutorial~~

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Stress MRI: Methodology,
Current Role and Case
Studies (Dipan Shah, MD)

December 13, 2016 EACVI CMR

Tutorials - 01 -

Introduction to

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Resonance

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Neuroradiology physics

review - 2 - Magnetic

Resonance Imaging TMT:

Cardiac MRI: Scanning Planes

Cardiac MRI: Basic

Principles (Dipan J. Shah,

MD) September 4, 2018 RF

Aspects of Magnetic

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*Resonance in MINOCA (Chiara
Bucciarelli-Ducci, MD)*

October 15, 2020 Cardiac

*MRI: Basic Principles (DIPAN
J. SHAH, MD) September 26,*

2017 ~~Cardiovascular Magnetic~~

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~~Resonance Imaging Current~~

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Resonance Imaging: Current

Applications and Future

Directions Introduction.

Magnetic resonance imaging

(MRI) is of increasing

importance in cardiovascular

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Current And

applications. It is
widely... Patient
Preparation. Often, the most
critical portion of the
cardiac examination is
patient ...

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~~Resonance Imaging: Current~~

Current And

Magnetic resonance imaging can assess LV mass, regional hypertrophy patterns, and different phenotypes of the disease (e.g., apical hypertrophic cardiomyopathy

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[HCM], degree of left ventricular outflow tract [LVOT] obstruction, systolic anterior motion of the mitral valve)and can monitor post-myomectomy changes in HCM .Magnetic resonance spectroscopy

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Reveals changes in the
phosphate metabolism ,
whereas analysis of coronary
sinus blood flow helps in
determining the alterations
in coronary ...

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Magnetic resonance imaging is the newest, most complex and rapidly emerging non-invasive test of choice for patients with a multitude of cardiovascular problems. Its

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emerging role as one of the dominant imaging modalities in most facets of clinical cardiology cannot be understated.

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Cardiovascular Magnetic and . . . Resonance Imaging

Cardiovascular magnetic resonance (CMR) is a highly versatile non-invasive and non-ionising multi-parametric imaging technique. Within the multimodality imaging

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Resonance Imaging
Current And
setting of current clinical practice, CMR provides relative strengths in different aspects of the clinical work-up . It has become the reference standard for the evaluation of cardiac volumes and

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function.

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~~Clinical indications for
cardiovascular magnetic
resonance . . .~~

Exercise CMR - methodology
and development. Treadmill
exercise CMR. Directly

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analogous to treadmill

stress echocardiography,

treadmill Ex-CMR is

performed to achieve the

required exercise ... In-

scanner exercise CMR. Supine

ergometer exercise CMR.

Upright cycle ergometer.

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Isometric handgrip stress
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~~Exercise cardiovascular
magnetic resonance:
development ...~~

Molecular Imaging in
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Resonance Imaging: Current

Perspective and Future

Potential David E. Sosnovik

, MD, FACC David E.

Sosnovik, From the Center

for Molecular Imaging

Research, and Department of

Cardiology, Massachusetts

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Resonance Imaging, Harvard
General Hospital, Harvard
Medical School, Boston MA;

~~Molecular Imaging in
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Resonance ...~~

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resonance imaging for

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diagnosis and clinical

management of suspected

cardiac masses and tumours

Fussen S, De Boeck BW,

Zellweger MJ, Bremerich J,

Goetschalckx K, Zuber M,

Buser PT. Eur Heart J. 2011

Jun; 32(12):1551-60. doi:

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10.1093/eurheartj/ehr104.

Epub 2011 Apr 15. Congenital
Heart Disease (and Adult
Congenital Heart ...

~~Recommended Reading on
Cardiovascular Magnetic
Resonance (CMR)~~

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Cardiovascular Magnetic

Resonance Imaging
Current And

Cardiovascular magnetic resonance (CMR) is a versatile cross-sectional imaging modality for the functional and anatomical assessment of a wide range of cardiovascular diseases. CMR stress techniques are

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Resonance Imaging
Current And
well established for the
diagnosis of myocardial
'ischaemia'.

~~Cardiovascular magnetic
resonance imaging: what the
...~~

Main outcomes and measures:

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Demographic characteristics, cardiac blood markers, and cardiovascular magnetic resonance (CMR) imaging were obtained. Comparisons were made with age-matched and sex-matched control groups of healthy volunteers (n =

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Resonance Imaging
Current And
50) and risk factor-matched patients (n = 57) .

~~Outcomes of Cardiovascular
Magnetic Resonance Imaging
in ...~~

Stress cardiac imaging is
the current first line

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Investigation for coronary artery disease diagnosis and decision making and an adjunctive tool in a range of non-ischaemic cardiovascular diseases. Exercise cardiovascular magnetic resonance (Ex-CMR)

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Resonance Imaging
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has developed over the past
25 years to combine the
superior image qualities of

~~Exercise cardiovascular
magnetic resonance:
development ...~~

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Resonance Imaging (CMR, also known as cardiac MRI) is a medical imaging technology for non-invasive assessment of the function and structure of the cardiovascular system.

Conventional MRI sequences

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are adapted for cardiac imaging by using ECG gating and high temporal resolution protocols.

~~Cardiac magnetic resonance imaging — Wikipedia~~

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Resonance Imaging in the

Evaluation of Cardiac

Transplantation Cardiac

transplant recipients

require lifelong

surveillance for common and

life-threatening

posttransplant complications

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such as acute cardiac
allograft rejection (ACAR)
and coronary allograft
vasculopathy (CAV).

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Resonance Imaging in the ...~~

This established 3-day

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Resonance Imaging
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course has been running for
10 years at King's, with an
exceptional faculty of
internationally renowned
experts in the field of
cardiac MRI. The

'Cardiovascular Magnetic
Resonance' course has been

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endorsed by SCMR for level 1
certification and approved
by the Royal College of
Physicians for 18 CPD
points.

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Resonance Imaging
Current And

Cardiac magnetic resonance imaging has the potential to identify a high-risk cohort for adverse outcomes and may, importantly, risk stratify athletes for safe participation because CMR mapping techniques have a

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high negative predictive
value to rule out

myocarditis. 4 A recent
study by Puntmann et al 2
demonstrated cardiac
involvement in a significant
number of patients who had
recovered from COVID-19.

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~~Cardiovascular Magnetic
Resonance Findings in
Competitive ...~~

Although echocardiography has traditionally been the principal imaging modality to describe the normal

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structure of athlete's heart, the exciting potential of cardiovascular magnetic resonance (CMR) imaging can further our understanding of cardiac adaptation in athletes and facilitate differentiation

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between physiological
increases in cardiac
dimensions and

morphologically mild forms
of cardiomyopathy.

~~Cardiac Magnetic Resonance
Imaging in Athletes | JACC~~

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...
before LV systolic function deteriorates or the patient develops symptoms.

Cardiovascular magnetic resonance (CMR) permits assessment of reactive fibrosis, with the use of T1

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mapping techniques, and replacement fibrosis, with the use of late gadolinium contrast enhancement. In addition, functional consequences of

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~~resonance imaging to assess~~

Current And

Pulmonary hypertension is definitively diagnosed by the measurement of mean pulmonary artery (PA) pressure (mPAP) using right heart catheterization.

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Cardiovascular magnetic resonance (CMR) four-dimensional (4D) flow analysis can estimate mPAP from blood flow vortex duration in the PA, with excellent results.

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~~Cardiovascular magnetic
resonance 4D ... BMC
Current And
Medical Imaging~~

In the last 20 years,
cardiovascular magnetic
resonance (CMR) has emerged
as an alternative
noninvasive modality without

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Resonance imaging that is applicable to patients with valvular heart disease. CMR provides images of valve anatomy and allows quantitative evaluation of stenosis and regurgitation.

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