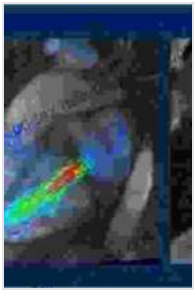
Learning Cardiac Magnetic Resonance Case Based Guide for Begginers

Cardiac magnetic resonance (CMR) is a non-invasive imaging technique that provides detailed anatomical and functional information about the heart. CMR is used to diagnose and manage a wide range of cardiovascular diseases, including coronary artery disease, heart failure, and valvular heart disease.

CMR is a powerful tool, but it can be challenging to interpret the images. This case-based guide will help you learn how to interpret CMR images and make accurate diagnoses.

A 55-year-old man with chest pain is referred for CMR. The CMR images show a large area of scar in the anterior wall of the left ventricle. The scar is consistent with a myocardial infarction (heart attack).



Learning Cardiac Magnetic Resonance: A Case-Based Guide by Carina Taylor

★★★★★ 5 out of 5

Language	: English
File size	: 53274 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 346 pages

Diagnosis: Myocardial infarction

Discussion: CMR is the gold standard for diagnosing myocardial infarction. CMR can detect myocardial infarction even in patients with non-specific symptoms or electrocardiogram changes.

A 60-year-old woman with shortness of breath is referred for CMR. The CMR images show a dilated left ventricle with reduced ejection fraction. The left ventricle is also hypertrophied.

Diagnosis: Heart failure

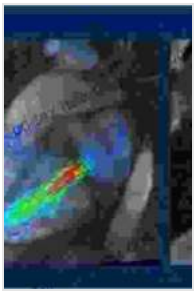
Discussion: CMR is used to evaluate left ventricular function in patients with heart failure. CMR can measure ejection fraction, which is a measure of how well the left ventricle pumps blood. CMR can also assess left ventricular hypertrophy, which is a thickening of the left ventricular wall.

A 70-year-old man with a heart murmur is referred for CMR. The CMR images show a stenotic aortic valve. The aortic valve is narrowed, which is blocking the flow of blood from the left ventricle to the aorta.

Diagnosis: Aortic stenosis

Discussion: CMR is used to evaluate valvular heart disease. CMR can measure the severity of valvular stenosis and regurgitation. CMR can also assess the function of the left ventricle and aorta.

CMR is a powerful tool for diagnosing and managing cardiovascular diseases. This case-based guide has provided a brief overview of how to interpret CMR images. With practice, you will be able to use CMR to make accurate diagnoses and improve the care of your patients.



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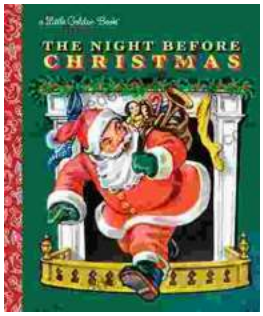

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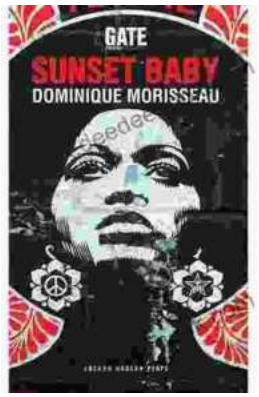

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