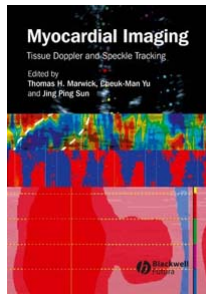


**MYOCARDIAL IMAGING, Tissue Doppler and Speckle Tracking**



**Autor:** Marwick  
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## **DESCRIPTION:**

In recent years, echocardiography has evolved from a qualitative diagnostic tool into a complex and sophisticated technique that is able to provide accurate, quantitative information driving the management of most cardiac diseases. Despite the availability, affordability and scientific value of advanced echocardiography techniques such as Tissue Doppler Imaging (TDI) and Speckle Tracking, there has been a lack of accessible information about their use in real-life medical practice.

This practical book is the first comprehensive resource with truly international authorship covering the theory and clinical applications of advanced myocardial imaging as a diagnostic, monitoring and prognostic tool.

- Edited by internationally recognized experts in cardiac imaging, Myocardial Imaging: Tissue Doppler and Speckle Tracking collates the latest research into a specific, in-depth resource. - The book focuses on how to use advanced cardiac imaging techniques in everyday clinical practice, presenting relevant material in a logical format.
- Each chapter covers a different clinical application of TDI and Speckle Tracking techniques and is illustrated with full color images and tables, allowing quick and easy reference to clinically appropriate information.
- It is accompanied by an invaluable CD of video clips that illustrate concepts in the text and provide real examples of echocardiography in practice.
- Clear, concise key facts and summaries throughout the book enable fast decisions at point of care.

This book is an invaluable resource for cardiologists, sonographers or other healthcare professionals who want to get the most out of the new technology available on echo machines.

## **CONTENTS:**

### **Part 1. Methodology**

1. Technical principles of tissue velocity and strain imaging methods
2. Principles and different techniques for speckle tracking
3. Physiologic and MRI validation of strain techniques
4. Designation of normal ranges

### **Part 2. Application to hemodynamic evaluation**

5. Assessment of filling pressure at rest
6. Assessment of left ventricular filling pressure with stress

### **Part 3. Application in Heart Failure**

7. Assessment of Systolic Heart Failure
8. Assessment of Diastolic Heart Failure
9. Assessment of Dyssynchrony and Its Application

### **Part 4. Ischemic heart disease**

10. Experimental studies on myocardial ischemia and viability using tissue Doppler and deformation
11. Assessment of viability
12. Tissue velocity studies for ischemia
13. Strain and Strain Rate Imaging in Ischemia

### **Part 5. Non-coronary heart disease**

14. Tissue Doppler Echocardiography in the Assessment of Hypertensive Heart Disease
15. Using myocardial imaging to identify and manage subclinical heart disease in diabetes mellitus and obesity
16. Constrictive Pericarditis versus Restrictive Cardiomyopathy
17. Use Of Myocardial Imaging To Identify And Manage Subclinical Heart Disease In Thyroid And Other Endocrine Diseases
18. Use of myocardial imaging in valvular heart disease
19. Use of Myocardial Imaging to Identify and Manage Systemic Diseases
20. Assessment of RV function

### **Part 6. Coming developments and Applications**

21. Atrial function
22. 3D reconstruction of strain measurement and measurement of strain in 3D
23. Torsion
24. Automated strain and strain rate
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26. Use of Tissue Characterisation in relation to Arterial Function

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