• Introduction: Why this book?

Section: A Fundamentals Of Imaging Techniques

- Assessment of LV systolic function
- · Assessment of LV diastolic function
- Right heart evaluation
- Pharmacologic stress echocardiography
- Non-pharmacological stress echocardiography
- Contrast echocardiography
- Tissue Doppler imaging and speckle tracking echocardiography

Section B. Clinical Applications

Acute Coronary Syndrome

- Determining the etiology of chest pain
- Assessment of the extent of myocardial damage
- Post-myocardial infarction risk stratification
- Mechanical complications of myocardial infarction

Stable Angina

- Stress echocardiography for detection of myocardial ischemia and guiding treatment
- The use of contrast agents
- Direct visualization of coronary arteries and coronary blood flow

Chronic Ischemic Left Ventricular Systolic Dysfunction

- Ischemic mitral Regurgitation
- Assessment of myocardial viability
- Role in patients undergoing cardiac resynchronization therapy

Advanced Heart Failure

- Evaluation and follow-up of patient receiving ventricular assist devices
- Evaluation and follow-up of patient undergoing heart transplantation
- Echocardiographic guidance in ventricular reconstruction surgeries

Coronary Artery Diseases in Pediatric Age Groups

Coronary artery diseases in pediatric age groups

Coronary Artery Diseases In Systemic Illnesses: Special Issues

- Chronic kidney disease
- Connective tissue disorders
- Miscellaneous disorders

Preclinical Detection of Atherosclerosis

- Assessment of endothelial dysfunction
- Doppler assessment of carotid Atherosclerosis

Epilogue