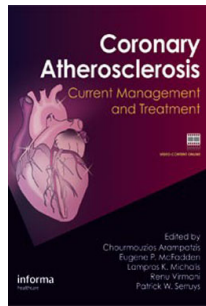


CORONARY ATHEROSCLEROSIS, Current Management and Treatment



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DESCRIPTION:

Coronary Atherosclerosis: Current Management and Treatment addresses the leading cause of death worldwide - coronary artery disease. Atherosclerosis has a broad range of disease manifestations depending on the degree of the stenosis, and the functional status of the coronary plaque and is a disease cardiologists manage every day. Prevalence of coronary artery disease is increasing as a greater number of people live longer and rising rates of obesity contribute to poor health.

Written by an international team of Editors, this new title addresses the pathophysiology of disease, established and novel diagnostic approaches (both invasive and non-invasive), treatment methodologies (including treatment algorithms), and differing perspectives on treatment including future therapies and long term outcomes. It includes every aspect of coronary artery disease and highlights the optimal treatment for different clinical scenarios.

CONTENTS:

I. The Pathophysiology of Coronary Atherosclerosis

1. Current concepts of plaque formation and the progression of atherosclerosis
2. Screening and identifying the high risk individuals in the general population by using traditional risk factors
3. The role of genomics and proteomics in identifying subjects at risk of clinical manifestations of coronary atherosclerosis and their future clinical applications
4. The identification of the patient at risk using biomarkers: Current status and evolving avenues for research
5. Stable and unstable atherosclerotic disease: definitions, clinical manifestations and pathophysiology

II. Diagnostic Approach to Coronary Atherosclerosis: Non Invasive Approach

6. Clinical evaluation of the patient with chest pain
7. Exercise stress testing, stress echocardiography, and scintigraphy: which tool for which patient?
8. Multislice Computed Tomography: Role in diagnosis and risk stratification
9. Magnetic resonance imaging: Role in diagnosis and risk stratification
10. CT-PET: Role in diagnosis and potential to predict the response to revascularization

II. Diagnostic Approach to Coronary Atherosclerosis: Invasive Approach

11. From conventional to 3-dimension coronary angiography: potential clinical
12. Fractional flow reserve: Role in guiding clinical decision making [video content also supplied]
13. Intravascular ultrasound: Role in diagnosis and management [video content also supplied]
14. Photoacoustic Imaging of Coronary Arteries: current status and potential clinical application
15. Plaque imaging with optical coherence tomography: Current status and potential clinical implications
16. Thermal assessment of the human coronary atherosclerotic plaque: Current status and potential clinical implications
17. Imaging of Structure and Composition of Lipid Core Plaque with a Combination NIRS-IVUS System: Current Status and Potential Clinical Applications
18. Role of Endothelial Shear Stress in the Destabilization of Coronary Plaque: Acute Coronary Syndromes and Rapid Plaque Progression
19. Tissue characterization using virtual histology and iMAP: Current status and potential clinical applications
20. The role of angioscopy in the assessment of the atherosclerotic plaque: Current status and potential clinical applications [video content also supplied]
21. What is the optimal imaging tool for coronary atherosclerosis?

III. Treatment methodology of coronary artery disease

22. Optimization of primary and secondary prevention
23. Anti-ischemic pharmacotherapy in patients with established coronary artery disease
24. Antithrombotic pharmacotherapy in patients with established coronary artery disease
25. Invasive assessment and management of intermediate coronary narrowings
26. Treatment algorithm in patients with stable angina
27. Treatment algorithm in patients with NSTEMI and unstable angina
28. Treatment algorithm in patients with STEMI
29. Management of microvascular angina
30. Treatment algorithm in patients with concomitant heart valve disease

IV. Treatment approach to coronary artery disease: Diverse perspectives

31. Clinical Perspectives on the Management of Advanced Stable Coronary Disease
32. Interventional Perspectives on the Management of Advanced Stable Coronary Artery Disease [video content also supplied]
33. Surgical perspectives on the Management of Advanced Stable Coronary Artery Disease
34. Hybrid treatments and future perspectives [video content also supplied]
35. Determinants of long term outcome following percutaneous coronary intervention
36. Determinants of long term outcome following bypass surgery
37. Novel therapeutic approaches to prevention and regression of atherosclerosis