

Features:

- Includes a number new and controversial topics: Roles of both behavioural and nutritional risk factors in CHF; considering behavioural intervention which may change the remodelling, as well as nutrient supplementation or change of diet in preventing CHF or converting resistant HF in to HF responding to therapy; Evidence-based knowledge on CHF, with an emphasis on viewing CHF as a disease of the brain and contribution from other systems; Pre-Heart failure which can be prevented to restore normal cardiomyocyte function; Pathogenesis of HF in chronic kidney disease; 2D and 3D speckle tracking echocardiography
- Includes never-published tables and figures to aid understanding of the topics
- Contributions from international leading experts in the field, written with the aim of serving both researchers and practicing clinicians

Περιεχόμενα:

Section 1. History, Epidemiology and Burden due to chronic heart

Failure1. Introduction2. Epidemiology and mortality due to heart failure3. Behavioral Risk factors of heart failure including Marijuana, and Electronic Cigarette Smoking4. Nutritional factors in the pathogenesis and prevention of HF5. Evolution of the natural history of myocardial function to the heart failure

Section 2. Classification of heart failure6. Pre-heart failure and 7. Classification of stages of heart failure

Section 3. Molecular mechanisms in the Pathogenesis of Chronic Heart

Failure8. Molecular and cellular biology of chronic heart failure9. Pathophysiology of chronic heart failure10. Circadian dysfunction in the pathogenesis of HF11. Cardiac remodelling in chronic heart failure12. Role of Obesity on Mitochondrial Dysfunction and Energy Imbalance in Heart Failure"

Section 4. Pathophysiology of Cardiac Function13. Abnormalities in the cardiac contraction14. Abnormalities in the cardiac relaxation

Section 5. Autonomic nervous system in CHF15. Role of Sympathetic nervous system in the chronic heart failure16. Role of Parasympathetic nervous system in the chronic heart failure 17. The peripheral circulation in the chronic heart failure

Section 6. Chronic heart failure and chronic kidney diseases18. Renal system in the chronic heart failure19. Heart failure in chronic kidney disease

Section 7. Imaging in Chronic Heart Failure20. Role of non-invasive imaging with reference to Speckle Tracking21. Echocardiography in the chronic heart failure22. Usefulness of 2D and 3D echo in the assessment of systolic and diastolic LV dysfunction. More coverage will be given to diastolic heart failure23. Role of brain imaging in CHF

Section 8. Causes of heart Failure24. Causes for chronic heart failure25. Coronary artery disease and heart failure26. Cardiomyopathies and HF27. Inflammatory and metabolic heart disease28. Valvular heart disease29. Congenital heart disease30. Right heart failure Cor pulmonale with reference to Health Care Burden of Cardiorespiratory Diseases and Heart Failure Caused by Air Pollutants and Microparticles31. Oncology and heart failure32. Acute heart failure33. High prevalence of undetected heart failure in longterm care residents: findings from the Heart Failure in Care Homes (HFinCH) study34. Analysing recurrent hospitalizations in heart failure: a review of statistical methodology, with application to CHARM-Preserved

