

Coronary heart disease : clinical, pathological, imaging, and molecular profiles

Vlodaver, Zeev, editor

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Abstrak

This book presents a comprehensive picture of ischemic heart disease for practitioners, students, and investigators dealing with the varied facets of this complex subject. Individual chapters introduce the anatomy of the coronary blood vessels and cardiac development, while others consider current imaging modalities utilized for ischemic heart disease, including stress echo, nuclear diagnostic tests, non-invasive coronary artery imaging, and coronary angiography. Imaging chapters provide key clinical information on techniques and indications, and include examples of both normal and abnormal patterns.

The principle thrust of the book concerns coronary atherosclerosis, the pathology of which is presented in conjunction with the results of anatomic, non-invasive imaging and angiographic studies. Related chapters cover atherogenesis, presenting new insights into the pathophysiology of the vulnerable plaque, the role of progenitor cells in vascular injury, inflammation and atherogenesis, and the genomics of vascular remodeling. Additional topics covered include angina pectoris, acute coronary syndromes, healed myocardial infarction and congestive heart failure, catheter-based and surgical revascularization, and surgical treatment of myocardial infarction and its sequelae. With contributions from a diverse group of internationally-known physicians with broad experience in the diagnosis and treatment of coronary heart disease.