## Mayo Clinic Cardiology: Concise Textbook

Murphy, Joseph G. MD

ISBN-13: 9780849390579

## **Table of Contents**

FUNDAMENTALS OF CARDIOVASCULAR DISEASE. Physical Examination. Applied Anatomy of the Heart and Great Vessels, Evidence-Based Medicine and Statistics for Cardiology Examinations, Noncardiac Surgery in Patients with Heart Disease. Essential Molecular Biology of Cardiovascular Diseases. Medical Ethics. Restrictions for Drivers of Motor Vehicles and Pilots of Aircraft Who Have Cardiovascular Conditions. NONINVASIVE IMAGING. General Principles of Echocardiography. Stress Echocardiography. Transesophageal Echocardiography. Nuclear Imaging. Positron Emission Tomography. Cardiovascular Computed Tomography and Magnetic Resonance Imaging. Cardiac Radiography. Atlas of Radiographs of Congenital Heart Defects. Cardiopulmonary Exercise Testing. Stress Test Selection. ELECTROPHYSIOLOGY. Electrocardiographic Diagnoses: Criteria and Definitions of Abnormalities. Cardiac Cellular Electrophysiology. Normal and Abnormal Cardiac Electrophysiology. Indications for Electrophysiologic Testing. Cardiac Channelopathies. Pediatric Arrhythmias. Atrial Fibrillation: Pathogenesis, Diagnosis, and Evaluation. Atrial Fibrillation: Management. Atrial Flutter. Supraventricular Tachycardia: Diagnosis and Treatment of the Common Causes. Ventricular Tachycardia. Arrhythmias in Congenital Heart Disease. Arrhythmias During Pregnancy. Heritable Cardiomyopathies. Syncope: Diagnosis and Treatment. Pacemakers. Cardiac Resynchronization Therapy. Technical Aspects of Implantable Cardioverter-Defibrillators. Implantable Cardioverter-Defibrillator Trials and Prevention of Sudden Cardiac Death. Sudden Cardiac Death. Heart Disease in Athletes. Atlas of Electrophysiology Tracings. VALVULAR HEART DISEASE. Valvular Stenosis. Valvular Regurgitation. Rheumatic Heart Disease. Carcinoid and Drug-Related Heart Disease. Prosthetic Heart Valves. Surgery for Cardiac Valve Disease. AORTA AND PERIPHERAL VASCULAR DISEASES. Peripheral Vascular Disease. Cerebrovascular Disease. The Aorta. Renovascular Disease and Renal Artery Stenting. Pathophysiology of Arterial Thrombosis. Treatment and Prevention of Arterial Thrombosis. Venous and Lymphatic Disorders. Vasculitis. CORONARY ARTERY DISEASE RISK FACTORS. Coronary Heart Disease Epidemiology. Metabolic Syndrome. Pathogenesis of Atherosclerosis. Dyslipidemia and Other Risk Factors for Atherosclerosis. Novel Risk Markers for Atherosclerosis. Diabetes Mellitus and Coronary Artery Disease. Hypertension. Heart Disease in Women. Heart Disease in the Elderly. Erectile Dysfunction and the Heart. MYOCARDIAL INFARCTION. Cardiac Biomarkers. Acute Coronary Syndrome. Chronic Stable Angina. Right Ventricular Infarction. Adjunctive Therapy in Acute Myocardial Infarction. Cardiogenic Shock. Reperfusion Strategy for ST-Elevation Myocardial Infarction: Fibrinolysis Versus Percutaneous Coronary Intervention. Fibrinolytic Therapy for Acute Myocardial Infarction. Risk Stratification After Myocardial Infarction. Cardiac Rehabilitation. Coronary Artery Bypass Surgery. DISEASES OF THEHEART, PERICARDIUM, AND PULMONARY CIRCULATION. Pericardial Diseases. Pulmonary Embolism. Pulmonary Hypertension. Pregnancy and the Heart. Adult Congenital Heart Disease. HIV Infection and the Heart. Infective Endocarditis. Systemic Disease and the Heart. Cardiac Tumors. Sleep Apnea for Cardiology Boards. Cardiovascular Trauma. Cardiovascular Manifestations of Acute Brain Injury. Anesthesia for Noncardiac Surgery in Patients with Cardiovascular Disease. CARDIOMYOPATHY ANDHEART FAILURE. Cardiovascular Reflex and Humoral Control of the Circulation. Left Ventricular Systolic Function. Left Ventricular Diastolic Function. Heart Failure: Diagnosis and Evaluation. Pharmacologic Therapy of Systolic Ventricular Dysfunction and Heart Failure. Myocarditis. Dilated Cardiomyopathy. Restrictive Cardiomyopathy, Hypertrophic Cardiomyopathy, Right Ventricular Failure, Congestive Heart Failure: Alternative Surgical Therapy and Permanent Mechanical Cardiac Support. Cardiac Transplantation Historical Roots and Current Status. CARDIAC PHARMACOLOGY. Essentials of Pharmacokinetics and Pharmacodynamics. Antiarrhythmic Drugs. Modulators of the Renin-Angiotensin System. Principles of Diuretic Usage. Digoxin. Principles of Inotropic Drugs. Nitrate Therapies. Calcium Channel Blockers. ÄŸ-Adrenoceptor Blockers. Antiplatelet Agents. Principles, Adverse Effects, and Interactions of Cardiac Drugs. Cardiac Emergencies. INVASIVE AND INVERVENTIONAL CARDIOLOGY. Endothelial Dysfunction and Cardiovascular (CV) Disease. Coronary Artery Physiology: Intracoronary Ultrasonography, Doppler and Pressure Techniques. Coronary Anatomy and Angiographic Views. Principles of Interventional Cardiology. High-Risk Percutaneous Coronary Interventions. Invasive Hemodynamics. Contrast-Induced Nephropathy. Diagnostic Coronary Angiography and Ventriculography. Percutaneous Catheter Closure of Patent Foramen Ovale, Atrial Septal Defect, and Ventricular Septal Defect. Atlas of Hemodynamic Tracings. Endomyocardial Biopsy. Coronary Stents. Lipid-Lowering Medications and Lipid-Lowering. Randomized Clinical Trials. APPENDIX