CENTENNIAL COLLECTION



Cardiology: A Century of Progress

Eugene Braunwald®, MD

Ithough the vital roles of circulation, and the heart, were defined by William Harvey in the 17th century, and the stethoscope was described by René Laennec in 1816, it was not until the decade from 1895 to 1905 that development of 3 clinically important technologies—sphygmomanometry, electrocardiography, and radiology—led to the birth of cardiology as a medical specialty. This Perspective provides an overview of cardiology in 1924 and how it has changed in the past century. For the former, I leaned heavily on the 10th edition of Osler's Principles and Practice of Medicine, which was the leading textbook of medicine at the time, as well as on the medical literature.

Most physicians in the 1920s were general practitioners with relatively little postgraduate training. Although they measured blood pressure routinely, electrocardiograms and chest X-rays were in the province of the growing number of cardiologists who were internists performing detailed clinical examinations and who used the 3 noninvasive techniques mentioned above. They also measured the vital capacity to detect cardiac or pulmonary disease. Therapy was limited for patients with symptomatic heart disease, for whom Osler recommended "a quiet, regulated, orderly life, free from excitement and worry...an ordinary wholesome diet in moderate quantities...tobacco may be allowed in moderation, but alcohol should be interdicted..." He also recommended that patients with serious heart disease not be informed of this, but that a friend or relative should be. The only cardiac surgery was stripping of adhesive pericarditis. Management was based on "clinical experience" rather than on prospective hypothesistesting in randomized controlled trials. However, several registries of patients with various cardiac disorders were begun. Considerable attention was focused on elucidating the causes of chronic cardiac pain, which was troublesome to many patients. These included angina pectoris, thoracic aortic aneurysm, and so-called "cardiac neurosis."

Paul D. White, one of the founders of the American Heart Association, followed his patients carefully and emphasized the importance of ascertaining and recording the natural history of various cardiac disorders. The concept of the prevention of heart disease was introduced, but initially applied only to the development and recurrence of acute rheumatic fever.⁹ A frequent debate concerned indications for tonsillectomy and its possible prevention of acute rheumatic fever, Advances in cardiovascular physiology and pathophysiology were occurring rapidly in the 1920s and were summarized in a widely used book by Carl Wiggers,⁹ who was a towering figure.

CARDIOVASCULAR DISORDERS IN 1924

Arteriosclerotic cardiovascular disease (ASCVD) was characterized by vascular plaques and thickening of the arterial walls, caused by inflammation and degeneration. It was known to involve the coronary arteries and to cause angina pectoris. Another presentation of ASCVD was acute myocardial infarction, considered to be a grave, albeit infrequent illness, caused by coronary artery thrombosis. At autopsy, arteriosclerotic changes were also found in the aorta and cerebral, renal, and illofermoral arteries. Treatment of chronic ASCVD consisted of reductions of weight and blood pressure if elevated; and salt intake. There was no specific treatment for acute myocardial infarction except for bed rest, a liquid diet, and general supportive measures.

Key Words: cardiology - history - medicine

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Advances in Cardiology Kanu Chatterjee, Phillip A Horwitz, 2014-03-20 This book presents the most recent advances in the field of cardiology with emphasis on cardiovascular pathophysiology and new diagnostic and therapeutic techniques used for the management of patients with cardiovascular disease Divided into ten sections the book examines different aspects in the diagnosis and treatment of heart disease including key advances in interventional cardiology innovations in technology and advances in pharmacotherapy Implantable cardiac devices and atrial fibrillation are discussed in depth Edited by internationally recognised Professor Kanu Chatterjee from the University of Iowa and the University of California San Francisco and Professor Phillip A Horwitz from the University of Iowa this comprehensive reference includes nearly 350 images and illustrations to enhance learning Key points Comprehensive guide presenting recent advances in cardiology Emphasis on pathophysiology and new diagnostic and therapeutic techniques In depth coverage of implantable cardiac devices and atrial fibrillation Edited by internationally recognised US experts Prof Kanu Chatterjee and Prof Phillip A Horwitz

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reader There is a comprehensive coverage of management of tumors in eloquent areas Evidence based management of spinal etastasis and the scientific evidence for decompressive craniotomy are presented The controversies regarding the management of recurrent glioblastomas as well as the need to shunt a syrinx associated with Chiari malformation are strongly debated Allied fields such as radiation therapy and neuropsychology are demystified and explained in a lucid manner

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Table of Contents Progress In Cardiology 2 2

- 1. Understanding the eBook Progress In Cardiology 2 2
 - The Rise of Digital Reading Progress In Cardiology 2 2
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Progress In Cardiology 2 2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Progress In Cardiology 2 2
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Progress In Cardiology 2 2
 - Personalized Recommendations
 - Progress In Cardiology 2 2 User Reviews and Ratings

- Progress In Cardiology 2 2 and Bestseller Lists
- 5. Accessing Progress In Cardiology 2 2 Free and Paid eBooks
 - Progress In Cardiology 2 2 Public Domain eBooks
 - Progress In Cardiology 2 2 eBook Subscription Services
 - Progress In Cardiology 2 2 Budget-Friendly Options
- 6. Navigating Progress In Cardiology 2 2 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Progress In Cardiology 2 2 Compatibility with Devices
 - Progress In Cardiology 2 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - $\,\circ\,$ Adjustable Fonts and Text Sizes of Progress In Cardiology 2 2
 - Highlighting and Note-Taking Progress In Cardiology 2 2
 - Interactive Elements Progress In Cardiology 2 2
- 8. Staying Engaged with Progress In Cardiology 2 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Progress In Cardiology 2 2
- 9. Balancing eBooks and Physical Books Progress In Cardiology 2 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Progress In Cardiology 2 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Progress In Cardiology 2 2
 - Setting Reading Goals Progress In Cardiology 2 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Progress In Cardiology 2 2
 - o Fact-Checking eBook Content of Progress In Cardiology 2 2
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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