



# Cardiovascular System

**Judd E. Hollander**



## **Cardiovascular System:**

**The Cardiovascular System** Britannica Educational Publishing, 2010-04-01 Though only about the size of a clenched fist the human heart bears the immense burden of sustaining human life and activity Functioning to circulate blood throughout the body the heart is an organ on which all others intimately depend This volume relates the anatomy of the heart and the effects of the diseases to which it is sometimes prone Annotated diagrams and illustrations bolster the narrative and highlight significant aspects of cardiology and the incredible cardiovascular system **The Cardiovascular System at a Glance** Philip I. Aaronson, Jeremy P. T. Ward, Michelle J. Connolly, 2012-11-28 This concise and accessible text provides an integrated overview of the cardiovascular system considering the basic sciences which underpin the system and applying this knowledge to clinical practice and therapeutics A general introduction to the cardiovascular system is followed by chapters on key topics such as anatomy and histology blood and body fluids biochemistry excitation contraction coupling form and function integration and regulation pathology and therapeutics clinical examination and investigation all supported by clinical cases for self assessment Highly visual colour illustrations complement the text and consolidate learning The Cardiovascular System at a Glance is the perfect introduction and revision aid to understanding the heart and circulation and now also features An additional chapter on pulmonary hypertension Even more simplified illustrations to aid easier understanding Reorganized and revised chapters for greater clarity Brand new and updated clinical case studies illustrating clinical relevance and for self assessment The fourth edition of The Cardiovascular System at a Glance is an ideal resource for medical students whilst students of other health professions and specialist cardiology nurses will also find it invaluable Examination candidates who need an authoritative concise and clinically relevant guide to the cardiovascular system will find it extremely useful A companion website featuring cases from this and previous editions along with additional summary revision aids is available at [www.ataglanceseries.com/cardiovascular](http://www.ataglanceseries.com/cardiovascular) *The Cardiovascular System E-Book* Alan Noble, Robert Johnson, Alan Thomas, Paul Bass, 2013-11-15 This is an integrated textbook on the cardiovascular system covering the anatomy physiology and biochemistry of the system all presented in a clinically relevant context appropriate for the first two years of the medical student course One of the seven volumes in the Systems of the Body series Concise text covers the core anatomy physiology and biochemistry in an integrated manner as required by system and problem based medical courses The basic science is presented in the clinical context in a way appropriate for the early part of the medical course There is a linked website providing self assessment material ideal for examination preparation [Cardiovascular System Dynamics](#) Jan Baan, Abraham Noordergraaf, Jeff Raines, 1978 This book offers a novel approach to the study of the mammalian cardiovascular system Instead of focusing on a particular part of the system or on a particular group of techniques or approaching the system from a particular point of view it stresses a balanced presentation of ideas all the major component parts of the system are discussed as well as the behavior of the system as an integrated whole both basic

and clinical viewpoints are represented both detailed analysis and comprehensive synthesis are offered In addition trends in modern instrumentation and the use of computers in improving patient care are important and recurrent themes Spirited discussions of current controversies and philosophies highlight the presentations The 62 papers in this volume were invited for a major international conference held in April 1975 which marked the coming of age of this field and led to the founding of the Cardiovascular System Dynamics Society The conference brought together outstanding researchers in the life sciences biology physiology medicine and the physical sciences biophysics bioengineering in order to integrate their findings more intricately and to chart the present state and future directions of the field Since the cardiovascular system has been one of the first areas to receive attention under the newly emerging symbiosis between engineering and medicine the book also serves a useful secondary purpose as a model of what can be accomplished by such integrated effort The papers are organized into 12 sections The first 9 offer a tour of the cardiovascular system with papers arranged within each section to lead the reader from theoretical to clinical viewpoints Included are sections on cardiac muscle coronary circulation ventricular dynamics systemic arterial tree microcirculation systemic veins pulmonary vasculature control mechanisms in specific vascular beds and cardiovascular system control The last 3 sections offer tutorial overviews of theoretical and experimental methods applied to the cardiovascular system and of cardiovascular instrumentation and computer analysis

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