

# 11 THE CARDIOVASCULAR SYSTEM



The major structures of the cardiovascular system, the heart and blood vessels, play a vital role in human physiology. The major function of the cardiovascular system is transportation. Using blood as the transport vehicle, the system carries nutrients, gases, wastes, antibodies, electrolytes, and many other substances to and from body cells. Its propulsive force is the contracting heart.

The anatomy and location of the heart and blood vessels and the important understandings of cardiovascular physiology (for example, cardiac cycle, ECG, and regulation of blood pressure) are the major topics of this chapter.

## THE HEART

### Anatomy of the Heart

1. Complete the following statements by inserting your answers in the answer blanks.

1. Thorax
2. Diaphragm
3. Second
4. Aorta
5. Right Atrium
6. Atrium
7. Ventricles
8. Endocardium
9. Epicardium

The heart is a cone-shaped muscular organ located within the (1). Its apex rests on the (2), and its base is at the level of the (3) rib. The coronary arteries that nourish the myocardium arise from the (4). The coronary sinus empties into the (5). Relative to the roles of the heart chambers, the (6) are receiving chambers, whereas the (7) are discharging chambers. The membrane that lines the heart and also forms the valve flaps is called the (8). The outermost layer of the heart is called the (9). The fluid that fills the pericardial sac acts to decrease (10) during heart activity. The heart muscle, or myocardium, is composed of a specialized type of muscle tissue called (11).

10. Friction
11. Cardiac muscle

# Cardiovascular System Packet

**Hussin A.Rothana**



## **Cardiovascular System Packet:**

### **Decoding Aortic Disease by Enhancing Wall Shear Stress Analysis in 4D Flow MRI** Chiara Trenti, 2025-03-12

Aortic aneurysm is a silent asymptomatic enlargement of the aorta that can lead to life threatening events Current clinical guidelines rely on aortic diameter to assess the risk of complications and to time prophylactic interventions However the aorta may grow slowly for years or expand rapidly just before the occurrence of adverse events Size based criteria are a poor measure of disease progression so new markers are needed to improve risk stratification in patients with aortic aneurysm Advanced magnetic resonance imaging MRI permits the non invasive assessment of cardiovascular anatomy and function Four dimensional 4D Flow MRI measures the three dimensional blood velocity field over the cardiac cycle and enables the quantification of blood forces acting on the aortic wall These forces induce remodelling processes associated with physiological changes and diseases One such force is the frictional force on the aortic wall known as wall shear stress WSS WSS regulates normal vascular function but its role in disease progression is unclear Understanding blood flow forces in both healthy and diseased aortas may provide new insights into the mechanisms of aortic disease and may help in identifying novel markers to assist clinical decision making This thesis aims to enhance the analysis of WSS with 4D Flow MRI in the context of aortic disease First aortic wall motion is incorporated into the WSS analysis 4D Flow MR image processing methods are mostly manual and time consuming Consequently WSS analysis is mainly restricted to one cardiac phase or neglects aortic wall motion when assessing WSS metrics encompassing the whole cardiac cycle This thesis tailored semi automated atlas based segmentation and surface registration methods to aortic applications to obtain a moving aortic wall surface Second a robust framework for statistical analysis to compare cohorts based on WSS metrics is proposed WSS patterns can be visualised and quantified on three dimensional WSS maps representing the aortic wall surface These maps are used to infer local differences in WSS metrics between cohorts This thesis introduces permutation tests in cardiovascular MRI to facilitate such local inter cohort comparisons Third a deep learning method is proposed to reduce the acquired data in cardiovascular 4D Flow MRI Increasing the spatial resolution of 4D Flow MR images would be beneficial for estimating WSS metrics By reducing the acquired data the lengthy acquisition time of 4D Flow can be shortened or the temporal resolution improved Alternatively the time saved can be reinvested to increase the spatial resolution of the images thereby enhancing WSS assessment Finally the results obtained throughout the work performed in this thesis demonstrate the utility of 4D Flow MRI based WSS markers in selected cohorts Markers of altered blood flow were identified in patients with abdominal aortic aneurysm and in dilated patients with bicuspid valves and aortic regurgitation Moreover 4D Flow MRI based WSS metrics correlated to circulating biomarkers of inflammation and collagen synthesis in patients with mildly dilated aorta and tricuspid valves These findings showcase the potential of 4D Flow MRI in improving the mechanistic understanding behind aortic diseases and their risk assessment

*Biometric Technology* Ravi Das, 2014-11-07 Most biometric books are either

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*Scientific and Technical Aerospace Reports*, 1982 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database     Resources in education, 1984-08     *The Cardiovascular System* Alan Noble, 2005 A textbook on the cardiovascular system for medical students offering an integrated coverage of the basic science and major diseases of the system Integrated coverage of the structure function and major diseases of the cardiovascular system highly suitable for systems courses as taught in the new medical curriculum Coverage of the basic science is clinically driven a common clinical presentation introduces each major topic Clinical cases are used and explained in the chapter rather than merely being present to provide additional interest Coverage of major diseases of the cardiovascular system equips students for the contact with patients which now occurs much earlier in the medical course Attractive open two colour page design with objectives defined at the start of each chapter and self assessment at the end     Official Gazette of the United States Patent and Trademark Office, 2001     **The Heart and Cardiovascular System** Harry Allen Fozzard, 1986     *Handbook of Family Planning and Reproductive Healthcare* Anna Glasier, Ailsa Gebbie, Nancy Loudon, 2000 This fully revised New Edition of the HANDBOOK OF FAMILY PLANNING AND REPRODUCTIVE HEALTH CARE integrates the latest information and in depth advice on all contraceptive options and their possible side effects Each chapter includes guidance on practical prescribing indications contraindications the relative advantages and disadvantages of each method and complications and their management In addition to practical advice on contraception the handbook also covers advice on how to treat women with menopausal or minor gynecological problems such as premenstrual syndrome sexuality and family planning and sexually transmitted diseases Finally there is coverage of future trends in family planning and their likely impact on clinical practice

The Computer Database Thesaurus & Dictionary Management Contents (Firm), 1983     **McGraw-Hill Encyclopedia of Science & Technology** Sybil P. Parker, 1997 A comprehensive 20 volume reference encyclopedia on science and technology

**McGraw-Hill Encyclopedia of Science & Technology**, 1987     **Proceedings, 1999 International Conference on Information Intelligence and Systems** IEEE Computer Society, 1999 Annotation Presents 96 articles from the 1999 conference exact date not noted on intelligence in technological systems The papers were drawn from four symposiums focusing respectively on intelligence in neural and biological systems intelligence in automation and robotics image speech and natural language understanding and autonomous intelligent agents Some representative topics include shape

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