

# CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

## FUNCTION OF CIRCULATION:

Delivers O<sub>2</sub>, nutrients, hormones and antibodies to organs, tissues and cells. Removes the end product of cellular metabolism.

## FUNCTION OF THE HEART

Pumps oxygenated blood into the arterial system to supply capillaries and tissue.  
Pumps oxygen poor blood from the venous system through the lungs to be reoxygenated.

## ANATOMY OF THE HEART

Cone shaped organ located in the mediastinal space.  
The pericardial sac encases the heart and protects it, lubricates and holds 5-20 ml of pericardial fluid.  
This has two layers.

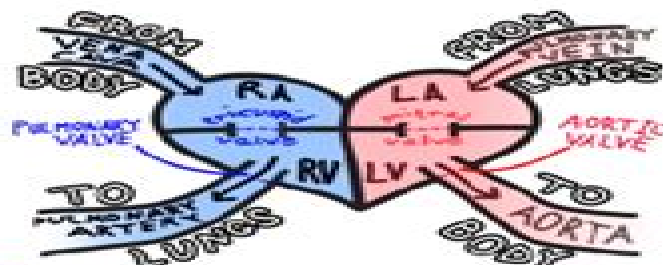
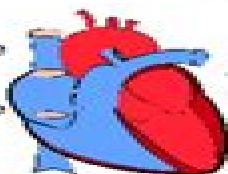
- ✦ the parietal pericardium which is the outer membrane.
- ✦ the visceral pericardium is the inner membrane attached to the heart.

## CONSISTS OF 3 LAYERS

- ✦ **Epicardium** : outermost layer of the heart.
- ✦ **Myocardium**: middle layer of the heart, the contracting muscle.
- ✦ **Endocardium**: innermost layer of the heart, lines the inner chambers and the valves.

## 4 CHAMBERS

- ✦ **Right atrium**: carries deoxygenated blood from the body via superior and inferior vena cava.
- ✦ **Right ventricle**: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery.
- ✦ **Left atrium**: carries oxygenated blood from the pulmonary veins.
- ✦ **Left ventricle**: carries oxygenated blood from the left atrium and pumps it into the systemic circuit through the aorta.



## 4 VALVES

*Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the atria.*

- ✦ **Tricuspid valve** : on the right side of the heart.
- ✦ **Bicuspid valve**: on the left side of the heart.

*Two semilunar valves that prevent blood from flowing back into the ventricles during relaxation.*

- ✦ **Pulmonic semilunar valve**: between the right ventricle and pulmonary artery.
- ✦ **Aortic semilunar valve**: between the ventricle and the aorta.

## CORONARY ARTERIES

- ✦ **Right main coronary artery**: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- ✦ **Left main coronary artery**: consists of two main branches left anterior descending which supplies blood to the left ventricle and the ventricular septum and circumflex arteries which supply blood to the left atrium and the lateral/posterior aspects of the left ventricle.

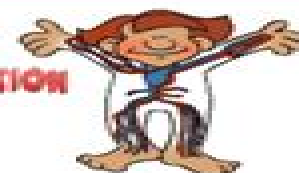
## BLOOD FLOW OF THE HEART

1. From the superior and inferior vena cava, oxygen poor blood goes to the right atria through the tricuspid valve.
2. Right ventricle to the pulmonary valve.
3. To the pulmonary trunk and arteries into the lungs. CO<sub>2</sub> is lost and O<sub>2</sub> is gained in the pulmonary capillaries.
4. O<sub>2</sub> rich blood enters the pulmonary veins to the left atrium.
5. Blood travels through the bicuspid valve and enters the left ventricle.
6. Blood moves through the aortic valve and travels through the aorta to the systemic circuit.

## ELECTRICAL CONDUCTION:

- ✦ **SA node**: pacemaker of the heart and initiates contraction at 60- 100 BPM.
- ✦ **AV** : receives impulses from the SA node initiates and sustains impulses at 40-60 BPM.
- ✦ **Bundle of His**: continuation of the AV node and branches into the the bundle branches which terminate in the purkinje fibers.
- ✦ **Purkinje fibers**: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pace makers. They can sustain at 20-40 BPM.

**CIRCULATION**



# Nursing Jarvis Heart Study Guide

**L Cohen**



## **Nursing Jarvis Heart Study Guide:**

Jarvis's Physical Examination and Health Assessment Laboratory Manual -EPUB3 EPUB Kathleen Blair,Mel Dudson,Andrea Miller,Nicole Norman,2016-07-19 Jarvis s Laboratory Manual for Physical Examination Health Assessment ANZ 2e is a practical step by step laboratory manual designed to develop competence in history taking and physical examination skills Each chapter guides students through a glossary study guide review questions and varied exercises as well as exploring practical skills and health assessment documentation including Regional Write Up Worksheets Fill in the blank matching true false and multiple choice questions to test your understanding of the material Spelling terminology measurements cultural and social considerations clinical procedures and best practice guidelines updated to reflect the most recent Australian and New Zealand standards Part of a revised comprehensive and revised learning package including Jarvis s Physical Examination Health Assessment ANZ 2e and Jarvis s Pocket Companion for Physical Examination Health Assessment ANZ 2e Includes Study Guide Answer Key on evolve Risk and safety screening for substance abuse chapter Revised contents fully aligned to Jarvis s Physical Examination Health Assessment ANZ 2e to reflect the increased focus on the relevance of the health assessment areas to the functional status of the person **Perry & Potter's Canadian Clinical Nursing Skills and Techniques- E-Book** Shelley Cobbett,2023-11-10 Perry Potter s Canadian Clinical Nursing Skills and Techniques 2nd Edition helps equip you with the skills you need to successfully care for patients within the Canadian social and institutional context Offering comprehensive coverage of more than 200 basic intermediate and advanced skills this textbook features nearly 1 000 full colour photographs and illustrations a nursing process framework step by step instructions with rationales and a focus on critical thinking and evidence informed practice New to this edition are unit openers safety alerts documentation examples COVID 19 precautions and protocols and case studies and questions for the Next Generation NCLEX *Potter and Perry's Canadian Fundamentals of Nursing - E-Book* Barbara J. Astle,Wendy Duggleby,Patricia A. Potter,Anne G. Perry,Patricia A. Stockert,Amy Hall,2023-02-15 Get the solid foundation you need to practise nursing in Canada Potter Perry s Canadian Fundamentals of Nursing 7th Edition covers the nursing concepts knowledge research and skills that are essential to professional nursing practice in Canada The text s full colour easy to use approach addresses the entire scope of nursing care reflecting Canadian standards culture and the latest in evidence informed care New to this edition are real life case studies and a new chapter on practical nursing in Canada Based on Potter Perry s respected Fundamentals text and adapted and edited by a team of Canadian nursing experts led by Barbara J Astle and Wendy Duggleby this book ensures that you understand Canada s health care system and health care issues as well as national nursing practice guidelines More than 50 nursing skills are presented in a clear two column format that includes steps and rationales to help you learn how and why each skill is performed The five step nursing process provides a consistent framework for care and is demonstrated in more than 20 care plans Nursing care plans help you understand the

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*Core Curriculum for Pediatric Emergency Nursing* Bruce Herman, Emergency Nurses Association, 2003 This unique text serves as the foundation for pediatric emergency nursing practice and also addresses pediatric trauma care

**Case Studies in Critical Care Nursing** Sheila Drake Melander, 2004 Containing detailed and up to date case studies on critical care conditions with accompanying questions and answers for applied learning of the practice of critical care nursing this resource allows the reader to hone vital skills that are necessary in a critical care environment

**Certified Hospice and Palliative Nurse (CHPN) Exam Review** Patricia Moyle Wright, 2019-10-16 The first study guide for the CHPN certification exam This must have study guide for nurses seeking to obtain Certified Hospice and Palliative Nurse CHPN status provides state of the art information about all aspects of this specialty It features 300 carefully selected Q As that offer a detailed rationale for each question along with tips and strategies to promote exam mastery and frequently asked questions about the exam Additional questions are arranged in chapters mirroring the exam blueprint and the number of questions for each category correlates with the exam matrix Case based scenarios embodied within the questions facilitate the application of knowledge in a problem solving format A complete practice exam is included as well Brief topical reviews address hospice and palliative care nursing practice in all of its dimensions including physical spiritual and psychosocial The resource highlights information that forms the basis of end of life care such as communication and family centered care Additionally high level skills used by hospice and palliative care nurses such as drug and dosage conversion and the use of infusion therapy are covered as well Key Features Delivers the first study guide for hospice and palliative nurses seeking CHPN certification Provides concise up to date knowledge on all aspects of the specialty Includes information about the exam answers to commonly asked questions and tips and strategies for exam mastery Includes practice questions and answers following each chapter Provides a final

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