ECG Activity

HASPI Medical Anatomy & Physiology 13c Lab Activity

Background

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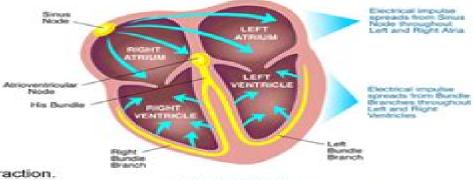
Cardiac Conduction

The heart has its own system in place to create nerve impulses and does not actually require the brain to make it beat. This electrical system is called the cardiac conduction system. It is made up of specialized tissues and cells embedded in the heart that send impulses directly to the atria and ventricles, causing them to contract. In the normal cardiac cycle, the left and right atria contract together first followed by the contraction of the ventricles together.

Name(s):

The cardiac conduction system is complex, but there are three crucial parts:

- The Sinoatrial (SA) Node
 Also known as the pacemaker, this is a small bundle of cells capable of starting the electrical impulse that will cause the heart to beat.
- The Atrioventricular (AV) Node
 A small bundle of cells that can receive
 the electrical impulse from the SA node,
 and continue the electrical signal down
 into the ventricles.
- His-Purkinje System
 These fibers actually carry the electrical impulse to the ventricles, causing a contraction. The impulse starts at the His bundle fibers, continues into the right bundle branch and left bundle branch, and ends in Purkinje fibers spread throughout the ventricles.



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The Heartbeat

The sinoatrial (SA) node begins the contraction by sending an impulse through both atria, causing them to contract and reach the atrioventricular (AV) node. The AV node continues the impulse, sending it down the Bundle of His, right and left bundle branches, and into Purkinje fibers within the ventricles causing both ventricles to contract.

As the impulse moves through the heart, cardiac muscle tissue contracts as the cells depolarize. Depolarization is caused by a flood of ions (sodium and potassium) across the cell membrane and drives the cells, and therefore cardiac muscle tissues, to contract. Once the impulse has passed, the cardiac cells must reset to be able to send another impulse. This is called repolarization and occurs when the ions move back through the cell membrane, causing the cardiac muscle tissue to relax.

The SA node will create anywhere from 60-100 electrical impulses per minute. Each of these impulses causes your heart to beat and translates to your heart rate. The electrical impulse causes the heart to depolarize and contract, followed by repolarization and relaxation, at a constant rate. The normal rhythm and rate is called the sinus rhythm. The cardiac conduction system is also capable of increasing or decreasing the number of electrical impulses depending on the amount of oxygen needed by the body. For example, when you run a mile your need for energy increases, causing the need for more oxygen, and resulting in an increase in the heartbeat and respiratory rate to bring more oxygen into the body.

13c Ecg Activity Answers

Library of the American Hospital
Association, Asa S. Bacon Memorial

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One Stop Doc Cardiology Rishi Aggarwal, Emily Ferenczi, Nina Muirhead, 2007-09-28 The One Stop Doc books have been designed by medical students for medical students to consolidate their knowledge subject by subject and system by system For each area studied there are only so many questions an examiner can ask they are presented here with clear explanations that allow students to revise thoroughly one topic at a time While do *Electrical Activity of the Heart* Ontario Heart Foundation, 1969 Index Medicus, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *The Times Index*, 2008 Indexes the Times and its supplements Hospital Literature Index, 1981 Cumulative

Index of Hospital Literature Library of the American Hospital Association, Asa S. Bacon Memorial, 1980

13c Ecg Activity Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. 13c Ecg Activity Answers: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. 13c Ecg Activity Answers: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents 13c Ecg Activity Answers

- 1. Understanding the eBook 13c Ecg Activity Answers
 - The Rise of Digital Reading 13c Ecg Activity Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 13c Ecg Activity Answers
 - 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 13c Ecg Activity Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 13c Ecg Activity Answers
 - Personalized Recommendations
 - 13c Ecg Activity Answers User Reviews and Ratings
 - 13c Ecg Activity Answers and Bestseller Lists
- 5. Accessing 13c Ecg Activity Answers Free and Paid eBooks
 - 13c Ecg Activity Answers Public Domain eBooks
 - 13c Ecg Activity Answers eBook Subscription Services
 - 13c Ecg Activity Answers Budget-Friendly Options
- 6. Navigating 13c Ecg Activity Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - 13c Ecg Activity Answers Compatibility with Devices
 - 13c Ecg Activity Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 13c Ecg Activity Answers
 - Highlighting and Note-Taking 13c Ecg Activity Answers
 - Interactive Elements 13c Ecg Activity Answers
- 8. Staying Engaged with 13c Ecg Activity Answers

- o Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 13c Ecg Activity Answers
- 9. Balancing eBooks and Physical Books 13c Ecg Activity Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 13c Ecg Activity Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 13c Ecg Activity Answers
 - Setting Reading Goals 13c Ecg Activity Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 13c Ecg Activity Answers
 - Fact-Checking eBook Content of 13c Ecg Activity Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - o Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - $\circ \ \ Integration \ of \ Multimedia \ Elements$
 - Interactive and Gamified eBooks

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