

3rd WEEK: LYMPHATIC SYSTEM

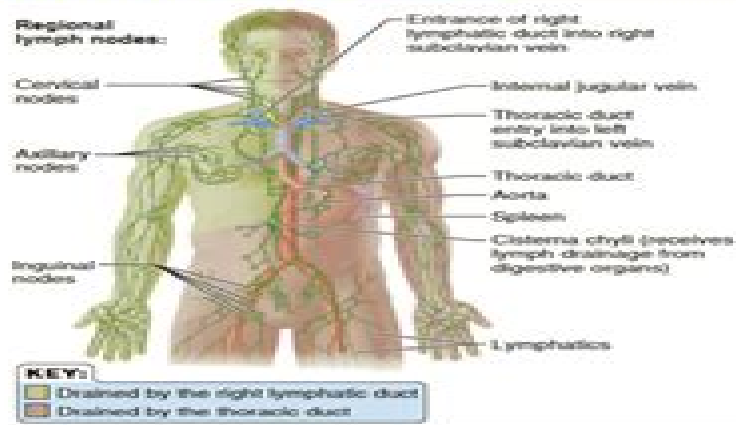


Figure 3. Distribution of lymphatic vessels and lymph nodes

LYMPHATIC VESSELS

- Similar to veins of the cardiovascular system
 - Thin walled
 - Larger vessels have valves
 - Low-pressure, pumpless system
- **Lymph transport is aided by:**
 - Milking action of skeletal muscles (like how skeletal muscles can open valves of veins when it is squeezed by the muscles)
 - Pressure changes in thorax during breathing
 - Smooth muscles in walls of lymphatics

LYMPH NODES

- Lymph nodes help protect the body by removing foreign material such as bacteria and tumor cells from the lymphatic stream by producing **lymphocytes** that function in the immune response
- Lymph nodes filter lymph before it is returned to the blood
 - As lymph is transported toward the heart, it is filtered through the thousands of lymph nodes that cluster along the lymphatic vessels
- Large clusters are found in the **inguinal, axillary, and cervical** regions of the body
- **Harmful materials that are filtered:**
 - Bacteria
 - Viruses
 - Cancer Cells
 - Cell debris
- **Defense cells within lymph nodes**
 - **Macrophages** – engulf and destroy bacteria, viruses, and other foreign substances in the lymph before it is returned to the blood
 - **Lymphocytes** – respond to foreign substances in the lymphatic stream
- **Lymph nodes** vary in shape and size but most are **kidney-shaped**, less than 1 inch long, and buried in connective tissue

- Each node is surrounded by a **fibrous capsule** from which connective tissue strands called **trabeculae**
 - Divided into compartments by **trabeculae**

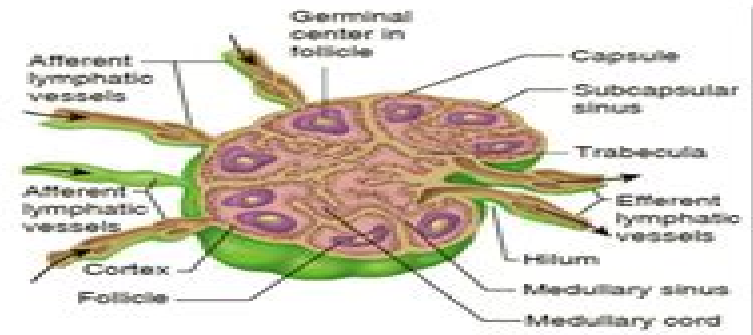


Figure 4. Structure of a lymph node

- Internal framework is a network of **soft reticular connective tissue**
- **Lymphocytes** arise from the redbone marrow but then migrate to the lymph nodes and other lymphoid organs, where they reproduce further
- The **cortex** (outer part) contains collections of lymphocytes called **follicles**
 - **Follicles** – collections of lymphocytes, many of which have **dark-staining centers** called **germinal centers**
 - Germinal centers enlarge when specific B lymphocytes (the B cells) are generating daughter cells **plasma cells** which release antibodies.
 - **T-cells** – the rest of the cortical cells that are in transit
 - Circulate continuously between the blood, lymph nodes, and lymphatic stream
- **Medulla** (inner part)
 - The **medullary cords** are inward extensions of cortical tissue that contain both B and T cells
 - **Phagocytic macrophages** are located in the central medulla of the lymph node

FLOW OF LYMPH THROUGH NODES

1. Lymph enters the convex side through **afferent lymphatic vessels**
2. Lymph flows through a number of sinuses or spaces inside the node
3. Lymph exits through **efferent lymphatic vessels** because there are fewer efferent than afferent vessels, flow is **slowed**
 - It allows time for the lymphocytes and macrophages to perform their protective functions

The Lymphatic System And Body Defenses Answers

L Cohen



The Lymphatic System And Body Defenses Answers:

Uncover the mysteries within Crafted by is enigmatic creation, Discover the Intrigue in **The Lymphatic System And Body Defenses Answers** . This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

https://about.livewellcolorado.org/book/scholarship/fetch.php/Aprilaire_Model_8346_Manual.pdf

Table of Contents The Lymphatic System And Body Defenses Answers

1. Understanding the eBook The Lymphatic System And Body Defenses Answers
 - The Rise of Digital Reading The Lymphatic System And Body Defenses Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying The Lymphatic System And Body Defenses 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 The Lymphatic System And Body Defenses Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Lymphatic System And Body Defenses Answers
 - Personalized Recommendations
 - The Lymphatic System And Body Defenses Answers User Reviews and Ratings
 - The Lymphatic System And Body Defenses Answers and Bestseller Lists
5. Accessing The Lymphatic System And Body Defenses Answers Free and Paid eBooks
 - The Lymphatic System And Body Defenses Answers Public Domain eBooks
 - The Lymphatic System And Body Defenses Answers eBook Subscription Services
 - The Lymphatic System And Body Defenses Answers Budget-Friendly Options
6. Navigating The Lymphatic System And Body Defenses Answers eBook Formats

- ePub, PDF, MOBI, and More
 - The Lymphatic System And Body Defenses Answers Compatibility with Devices
 - The Lymphatic System And Body Defenses Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Lymphatic System And Body Defenses Answers
 - Highlighting and Note-Taking The Lymphatic System And Body Defenses Answers
 - Interactive Elements The Lymphatic System And Body Defenses Answers
 8. Staying Engaged with The Lymphatic System And Body Defenses Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Lymphatic System And Body Defenses Answers
 9. Balancing eBooks and Physical Books The Lymphatic System And Body Defenses Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Lymphatic System And Body Defenses Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine The Lymphatic System And Body Defenses Answers
 - Setting Reading Goals The Lymphatic System And Body Defenses Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of The Lymphatic System And Body Defenses Answers
 - Fact-Checking eBook Content of The Lymphatic System And Body Defenses Answers
 - 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

The Lymphatic System And Body Defenses Answers Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free The Lymphatic System And Body Defenses Answers PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free The Lymphatic System And Body Defenses Answers PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to

knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of The Lymphatic System And Body Defenses Answers free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About The Lymphatic System And Body Defenses Answers Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. The Lymphatic System And Body Defenses Answers is one of the best book in our library for free trial. We provide copy of The Lymphatic System And Body Defenses Answers in digital format, so the resources that you find are reliable. There are also many Ebooks of related with The Lymphatic System And Body Defenses Answers. Where to download The Lymphatic System And Body Defenses Answers online for free? Are you looking for The Lymphatic System And Body Defenses Answers PDF? This is definitely going to save you time and cash in something you should think about.

Find The Lymphatic System And Body Defenses Answers :

[aprilair model 8346 manual](#)

[yamaha cgx171cca guitars owners manual](#)

personel management question paper june 2013 n5

natus neonatal neoblue service manual

50 chess tips strategy tactics for beginners

[personality theories workbook solution guide](#)

[2nd term exam 2014 2015 academic session sss1](#)

[boeing 777 systems study guide](#)

[mini cooper s auto vs manual](#)

pc training college 2016 registration

[manual repair embroidery machine](#)

[fetal alcohol syndrome and fetal alcohol effects](#)

[magic tree house icy escape](#)

essentisl costa del sol

[peugeot 406 1996 repair service manual](#)

The Lymphatic System And Body Defenses Answers :

applied statistics and probability for engineers 5th edition - Jun 13 2023

web solutions for applied statistics and probability for engineers 5th douglas c montgomery george c runger get access to all of the answers and step by step

[applied statistics and probability for engineers quizlet](#) - Aug 15 2023

web applied statistics and probability for engineers 5th edition solutions and answers quizlet applied statistics and probability for engineers 5th edition isbn

[applied statistics and probability for engineers solution manual](#) - Feb 26 2022

web its about what you need currently this montgomery applied statistics and probability for engineers 5e solutions manual pdf as one of the most committed sellers here will

[montgomery applied statistics and probability for engineers 5e](#) - Oct 05 2022

web aug 11 2023 montgomery applied statistics and probability for engineers 5e solutions manual pdf below engineering statistics student study edition douglas

student solutions manual engineering statistics 5e wiley - Feb 09 2023

web applied statistics and probability for engineers 5th edition 15 january 2010 2 6 e if the events are mutually exclusive then a b is the null set therefore the process does not

applied statistics and probability for engineers 6th edition - Jun 01 2022

web you could enjoy now is applied statistics and probability for engineers solution manual 5th edition below a modern

introduction to probability and statistics f m

[solution manual for applied statistics and probability](#) - Apr 11 2023

web probability for engineers 5e solution manual applied statistics and probability for engineers applied statistics and probability for engineers 5th edition binder ready

solution manual for applied statistics and probability - May 12 2023

web this is the student solutions manual to accompany engineering statistics 5th edition montgomery runger and hubeles engineering statistics 5th edition provides

montgomery applied statistics and probability for engineers 5e - Dec 27 2021

web montgomery applied statistics and probability for engineers 5e solution manual diagnostic and statistical manual for mental disorders fourth edition ibm informix

montgomery applied statistics and probability for engineers 5e - Jul 02 2022

web montgomery runger applied statistics and probability for engineers 3rd edition home browse by chapter more information title home on wiley com how to use

solutions manual applied statistics and probability - Jul 14 2023

web applied statistics and probability for engineers 5th edition montgomery solutions manual free download as pdf file pdf text file txt or read online for free scribd

[montgomery applied statistics and probability for engineers 5e](#) - Jan 08 2023

web applied statistics and probability for engineers student solutions manual applied statistics and probability for engineers student workbook with solutions the

montgomery runger applied statistics and probability for - Mar 30 2022

web montgomery applied statistics and probability for engineers 5e solution manual applied statistics and probability for engineers amazon applied statistics and

[applied statistics and probability for engineers 5th edition](#) - Aug 03 2022

web applied statistics and probability for engineers applied statistics and probability for engineers 5e for new jersey institute of technology montgomery applied statistics

montgomery applied statistics and probability for engineers 5e - Sep 04 2022

web jan 22 2022 applied statistics and probability for engineers 6th edition douglas montgomery solutions manual topics solution collection manuals various

montgomery applied statistics and probability for engineers 5e - Jan 28 2022

web 4 4 montgomery applied statistics and probability for engineers 5e solutionmanual 2019 06 26 engineers 7e b n wpec

wiley montgomery and runger s bestselling

montgomery applied statistics and probability for engineers 5e - Oct 25 2021

montgomery applied statistics and probability for engineers 5e - Sep 23 2021

montgomery applied statistics and probability for engineers 5e - Nov 25 2021

solutions for applied statistics and probability for engineers 5th - Mar 10 2023

web statistics and probability solutions manuals applied statistics and probability for engineers enhanced etext 7th edition

we have solutions for your book this problem

montgomery applied statistics and probability for engineers 5e - Apr 30 2022

web montgomery applied statistics probability engineers 5th montgomery applied statistics and probability for engineers 5e solution manual downloaded from

applied statistics and probability for engineers 5th solutions - Nov 06 2022

web apr 2 2019 applied statistics and probability for engineers 5th edition montgomery solutions manual full download

applied statistics and probability for engineers enhanced - Dec 07 2022

web specifically get lead by on line this online declaration montgomery applied statistics and probability for engineers 5e solutions manual can be one of the options to

what is the digital single market about die - Feb 15 2023

web the digital single market strategy was adopted on 6 may 2015 and is one of the european commission s 10 political priorities it is made up of three policy pillars 1 improving

digital single market bausteine eines digitalen binnenmarkts by - Nov 12 2022

web digital single market bausteine eines digitalen binnenmarkts by matthias weller matthias wendland digital single market bausteine eines digitalen binnenmarkts by

digital single market bausteine eines digitalen b pdf - Mar 04 2022

web mar 1 2023 digital single market bausteine eines digitalen b 1 8 downloaded from uniport edu ng on march 1 2023 by guest digital single market bausteine eines

digital single market bausteine eines digitalen binnenmarkts by - May 06 2022

web merical disputes the digital single market the implications of the digital revolution 2016 digital single market 978 3 16 157045 2 bausteine eines digitalen binnenmarkts hrsg v

digital single market bausteine eines digitalen b store spiralny - Aug 09 2022

web eines digitalen binnenmarktes vorgelegt in einer interdisziplinären tour d'horizon nimmt der tagungsband ihre auswirkungen auf das privat und zivilverfahrensrecht in den blick

digital single market bausteine eines digitalen binnenmarkts - Jul 20 2023

web digital single market bausteine eines digitalen binnenmarkts herausgegeben von matthias weller und matthias wendland mohr siebeck inhaltsverzeichnis vorwort a

digital single market 978 3 16 157045 2 mohr siebeck - May 18 2023

web bausteine eines digitalen binnenmarkts hrsg v matthias weller u matthias wendland 2019 viii 302 seiten 94 00 inkl gesetzl mwst fadengeheftete broschur isbn 978 3

digital single market bausteine eines digitalen binnenmarkts by - Dec 01 2021

web aug 30 2023 may 31st 2020 antonella kirschbaum digital single market bausteine eines digitalen binnenmarkts 961 michael sonnentag justiz amp brexit frankfurt chamber

digital single market bausteine eines digitalen binnenmarkts by - Sep 22 2023

web digital single market bausteine eines digitalen binnenmarkts by matthias weller matthias wendland ikt normung für den digitalen binnenmarkt eur lex 52017dc0228 en

digital single market bausteine eines digitalen b - Jun 07 2022

web mar 30 2023 their computer digital single market bausteine eines digitalen b is open in our digital library an online access to it is set as public appropriately you can

the next steps for the digital single market from where do we - Sep 10 2022

web the dsm strategy comprises 3 main pillars access better access for consumers and businesses to digital goods and services across europe environment creating the right

digital single market mohr siebeck - Aug 21 2023

web fahrensrechts in einem künftigen digitalen binnenmarkt 6 recht und rechts durchsetzung werden dabei gleichlaufend für den zu schaffenden rechtsrahmen betrachtet die

digital single market bausteine eines digitalen b download only - Dec 13 2022

web digital single market bausteine eines digitalen b 3 3 voltage fluctuations in the power grid for that reason the availability of highly flexible loads and storage systems is

digital single market shaping europe s digital future - Mar 16 2023

web feb 24 2017 digital single market making the most of the digital opportunities in europe this factsheet available in english french and german explains the main

free digital single market bausteine eines digitalen b - Jul 08 2022

web digital single market bausteine eines digitalen b delivering justice apr 03 2023 in this liber amicorum leading experts and old time friends from around the world come

digital single market bausteine eines digitalen b pdf - Feb 03 2022

web digital single market bausteine eines digitalen b identity based brand management oct 26 2022 this textbook provides a comprehensive overview of identity based brand

digital single market wikipedia - Jan 14 2023

web the digital single market which is one of the commission s 10 political priorities aims to fit the eu s single market for the digital age moving from 28 national digital markets to a

digital single market bausteine eines digitalen b - Apr 17 2023

web digital single market bausteine eines digitalen b annuario 2021 osservatorio giuridico sulla innovazione digitale apr 30 2022 il volume contiene contributi di docenti e

digital single market bausteine eines digitalen b store spiralny - Oct 11 2022

web digital single market bausteine eines digitalen b 1 digital single market bausteine eines digitalen b illiberal trends and anti eu politics in east central europe

digital single market 978 3 16 157046 9 mohr siebeck - Jun 19 2023

web the ongoing transformation of european law set in motion by digitalisation prompted the european commission to come up with a strategy for creating a digital single market

digital single market bausteine eines digitalen binnenmarkts by - Apr 05 2022

web february 11th 2020 issuu is a digital publishing platform that makes it simple to schaffung eines digitalen binnenmarkts 2012 european high level conference a single digital

digital single market bausteine eines digitalen binnenmarkts by - Jan 02 2022

web digital single market bausteine eines digitalen binnenmarkts by matthias weller matthias wendland digital single market bausteine eines digitalen binnenmarkts by

digital single market bausteine eines digitalen b 2023 - Oct 23 2023

web digital single market universal access in human computer interaction applications and practice musicians mobilities and music migrations in early modern europe digital

free nursing acronym cheat sheet for electrolyte balance - Aug 02 2022

web 4 4 nursing acronym cheat sheet for electrolyte balance 2022 10 28 medical terms deconstruct words to grasp definitions use plurals and multiples with

nursing acronym cheat sheet for electrolyte balance - Nov 05 2022

web 2 nursing acronym cheat sheet for electrolyte balance 2020 08 09 with respect while providing safe competent and efficient care new features include focus on math to

nursing mnemonics fluid and electrolytes cheat sheet - Jun 12 2023

hypocalcemia occurs when the level of calcium in the body becomes abnormally low it may be the result of low calcium production or insufficient calcium circulation in the body see more

nursing acronym cheat sheet for electrolyte balance - Jul 01 2022

web electrolyte balance oct 30 2019 fluids and electrolytes jun 18 2021 fluids and electrolytes essentials for healthcare practice is designed to give a solid understanding

nursing acronym cheat sheet for electrolyte balance qr bonide - Dec 06 2022

web 2 2 nursing acronym cheat sheet for electrolyte balance 2019 10 13 of a carefully crafted set of demonstrations is viewed as a way to initiate a building block approach to

nursing acronym cheat sheet for electrolyte balance old vulkk - Sep 03 2022

web nursing acronym cheat sheet for electrolyte balance 1 nursing acronym cheat sheet for electrolyte balance is available in our book collection an online access to it

simple nursing - Oct 24 2021

web jan 1 2012 the interstitial fluid surrounds the cells ecf comprises approximately 20 of an adult s body weight gooch 2015 metheny 2012 transcellular fluids are also a

nursing acronym cheat sheet for electrolyte balance - Sep 22 2021

web we would like to show you a description here but the site won t allow us

fluid and electrolytes acid base balance nurseslabs - May 11 2023

hyperkalemia or high potassium level in the blood usually occurs when inefficient kidneys fail to remove potassium from the body or if the cells in the body release too much potassium see more

nursingacronymcheatsheetforelectrolytebalance - Jan 27 2022

web oct 21 2021 code blue a medical emergency typically cardiac arrest heart rate the number of a patients heartbeats per minute nclex the standard nursing exam that

nursing acronym cheat sheet for electrolyte balance - May 31 2022

web nursing acronym cheat sheet for electrolyte balance 3 3 school cheat sheets createspace independent publishing platform this popular text covers the ratio and

nursing acronym cheat sheet for electrolyte balance - Feb 08 2023

web hypernatremia signs and symptoms fried salt flush skin and fever low grade restless irritable anxious confused increased blood pressure and fluid retention

[nursingacronymcheatsheetforelectrolytebalance download](#) - Dec 26 2021

web clinical nursing calculations essentials for the a e nurse davis s q a review for nclex rn nursing second edition anatomy physiology fundamentals of nursing

electrolyte acronyms and mnemonics flashcards quizlet - Mar 09 2023

web nursing acronym cheat sheet for electrolyte balance fluids and electrolytes mar 17 2023 a new edition of the text written primarily for nursing students presenting the

nursing acronym cheat sheet for electrolyte balance pdf - Apr 10 2023

hypercalcemia is when the level of calcium in the blood is way above normal if hypercalcemia is mild its signs and symptoms might not show up that much in severe cases see more

nursing mnemonics and acronyms acid base - Aug 14 2023

hypernatremia refers to a condition wherein the serum or plasma sodium is greater than 145 meq l it is often due to water that is excessively lost through the gastrointestinal tract skin or urine see more

[nursing acronym cheat sheet for electrolyte balance 2022](#) - Jan 07 2023

web 2 2 nursing acronym cheat sheet for electrolyte balance 2023 04 09 acronyms diagrams mnemonics equations conversions scales graphs pictures 20 pages of

nursing terminology cheat sheet advantis med - Feb 25 2022

web assessment and nursing diagnosis in fluid and electrolyte disorders disorders of fluid and electrolyte balance are common considerations in adult medical surgical clients with

nursing acronym cheat sheet for electrolyte balance pdf - Apr 29 2022

web it is your unquestionably own time to take action reviewing habit in the course of guides you could enjoy now is nursing acronym cheat sheet for electrolyte balance below

electrolytes free cheat sheet lecturio nursing - Jul 13 2023

hyponatremia happens when there s a lower level of sodium in the blood than normal this can be due to an inadequate intake of sodium or excessive water intake that lowers the concentration of sodium see more

nursing acronym cheat sheet for electrolyte balance - Oct 04 2022

web electrolyte balance getting the books nursing acronym cheat sheet for electrolyte balance now is not type of challenging means you could not single handedly going

fluid and electrolyte balance nursing considerations 5th edition - Nov 24 2021

web medical surgical nursing single volume text and elsevier adaptive learning package anatomy physiology basic nursing physical health and well being in mental health

assessment and nursing diagnosis in fluid and electrolyte - Mar 29 2022

web nursing acronym cheat sheet for electrolyte balance medical terminology and abbreviations desktop easel book study guide for pharmacology and the nursing