

FLUID BALANCE

Fluid balance is a measure of the difference between fluid intake and fluid output.

Fluid Intake

- Water
- Food
- Medication
- Intravenous fluids
- Transfusion
- Other fluids

Fluid Output

- Urine
- Stool
- Sweat
- Respiratory
- Other

Fluid Balance

- Positive fluid balance: fluid intake is greater than fluid output.
- Negative fluid balance: fluid output is greater than fluid intake.
- Fluid balance is a measure of the difference between fluid intake and fluid output.

IV solutions

0.9% NaCl

- Isotonic
- Used for fluid resuscitation
- Used for fluid replacement

0.45% NaCl

- Hypotonic
- Used for fluid replacement
- Used for fluid resuscitation

0.33% NaCl

- Hypotonic
- Used for fluid replacement
- Used for fluid resuscitation

0.22% NaCl

- Hypotonic
- Used for fluid replacement
- Used for fluid resuscitation

Intravenous Therapy Complications

Infusion

- Infusion is the process of introducing a fluid into the bloodstream.
- Infusion is used to deliver medication, fluids, and electrolytes.
- Infusion is a common medical procedure.

Infusion Complications

- Infusion is a common medical procedure.
- Infusion is used to deliver medication, fluids, and electrolytes.
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STOP

Electrolyte: Sodium

Sodium

Na⁺

135-145 mEq/L

Hypernatremia

- Increased level of sodium
- Causes: dehydration, excessive sodium intake

Hypонатremia

- Decreased level of sodium
- Causes: excessive sodium intake, dehydration

Interventions

- Monitor sodium levels
- Administer sodium supplements
- Administer fluid resuscitation

Electrolyte: Calcium

Calcium

Ca²⁺

9-10 mEq/L

Hypercalcemia

- Increased level of calcium
- Causes: hyperparathyroidism, excessive calcium intake

Hypocalcemia

- Decreased level of calcium
- Causes: hypoparathyroidism, excessive calcium intake

Interventions

- Monitor calcium levels
- Administer calcium supplements
- Administer fluid resuscitation

BALANCE

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Acid-Base Imbalances

Metabolic Acidosis

- Low pH
- Low bicarbonate
- Causes: lactic acidosis, ketoacidosis, renal failure

Metabolic Alkalosis

- High pH
- High bicarbonate
- Causes: vomiting, diuretic use, excessive sodium intake

Respiratory Acidosis

- Low pH
- High bicarbonate
- Causes: hypoventilation, COPD, asthma

Respiratory Alkalosis

- High pH
- Low bicarbonate
- Causes: hyperventilation, anxiety, pain

ARTERIAL BLOOD GAS (ABG) ANALYSIS

ABG Analysis

ABG analysis is a test that measures the levels of oxygen and carbon dioxide in the blood.

ABG Results

- pH: 7.35-7.45
- PaO₂: 80-100 mmHg
- PaCO₂: 35-45 mmHg
- HCO₃⁻: 22-28 mEq/L

ABG Interpretation

- Acidosis: pH < 7.35
- Alkalosis: pH > 7.45
- Hypoxemia: PaO₂ < 80 mmHg
- Hypercapnia: PaCO₂ > 45 mmHg

ABG Treatment

- Acidosis: Administer bicarbonate
- Alkalosis: Administer ammonium chloride
- Hypoxemia: Administer oxygen
- Hypercapnia: Administer mechanical ventilation

Electrolyte: Magnesium

Magnesium

Mg²⁺

1.3-2.1 mEq/L

Hypermagnesemia

- Increased level of magnesium
- Causes: excessive magnesium intake, renal failure

Hypomagnesemia

- Decreased level of magnesium
- Causes: excessive magnesium intake, renal failure

Interventions

- Monitor magnesium levels
- Administer magnesium supplements
- Administer fluid resuscitation

Electrolyte: Potassium

Potassium

K⁺

3.5-5 mEq/L

Hyperkalemia

- Increased level of potassium
- Causes: renal failure, excessive potassium intake

Hypokalemia

- Decreased level of potassium
- Causes: renal failure, excessive potassium intake

Interventions

- Monitor potassium levels
- Administer potassium supplements
- Administer fluid resuscitation

Electrolytes Cheat Sheet Acid Base Balance

Ursula Heitz, Mima M. Horne



Electrolytes Cheat Sheet Acid Base Balance:

NCLEX-RN Review Made Incredibly Easy, 2004-11-09 Revised to meet the latest Board of Nurse Examiners criteria for the NCLEX RN this book uses the well known Incredibly Easy approach to make NCLEX review effective and enjoyable In a light hearted manner that reduces anxiety and aids retention the book thoroughly reviews every area of nursing adult care psychiatric care maternal neonatal care care of the child leadership and management and law and ethics This edition includes a new chapter on how to prepare for the NCLEX plus 200 alternate format questions and answers added to the appendix and accompanying CD ROM The book also includes an entertaining graphic novel depicting the NCLEX process from application to license and valuable strategies for successfully passing the exam **NCLEX-RN® Review Made**

Incredibly Easy! Lippincott, 2012-02-03 NCLEX RN Review Made Incredibly Easy Fifth Edition uses the well known Incredibly Easy approach to make NCLEX review more interesting and effective Fully revised and updated to match the latest NCLEX RN test plan this title provides solid clinical information and clear rationales written in a conversational easy to understand manner with wealth of unique memory aids to assist with knowledge retention It covers every area of nursing that students will see on the NCLEX exam including adult care pediatric care maternal neonatal care psychiatric care and professional issues Critical thinking questions accompany each chapter and each section and an additional 3 250 challenging NCLEX style practice questions including audio questions and graphic option questions are offered online *NCLEX-RN Review Made Incredibly Easy!* Springhouse, 2003 This second edition helps make preparing for the NCLEX more enjoyable Each chapter is organized in a similar way beginning with the review of crucial information and key concepts Every area of nursing is covered including adult care psychiatric care maternal neonatal care child care and professional issues

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The Paleo Approach Sarah Ballantyne,2014-01-28 An estimated 50 million Americans suffer from some form of autoimmune disease If you re among them you may know all too well how little modern medicine can do to alleviate your condition But that s no reason to give up hope In this groundbreaking book Sarah D Ballantyne PhD draws upon current medical research and her own battle with an autoimmune disorder to show you how you can become completely symptom free the natural way The Paleo Approach is the first book ever to explain how to adapt the Paleo diet and lifestyle to bring about a full recovery Read it to learn why foods marketed as healthy such as whole grains soy and low fat dairy can contribute to the development of autoimmune conditions Discover what you can eat to calm your immune system reduce inflammation and help your body heal itself Find out which simple lifestyle changes along with changes in diet will make the biggest difference for your health There s no need to worry that going Paleo will break the bank or require too much time in the kitchen preparing special foods In The Paleo Approach

Dr Ballantyne provides expert tips on how to make the switch easily and economically Complete food lists with strategies for the day to day how stay within your food budget where to shop for what you need how to make the most out of your time in the kitchen and how to eat out take all the guesswork out of going Paleo Simple strategies for lifestyle adjustments including small steps that can make a huge difference guide you through the most important changes to support healing Do you have a complicated condition that requires medical intervention medication or supplements Dr Ballantyne also walks you through the most useful medical tests treatments and supplements as well as the most counterproductive ones to help you open a dialogue with your physician Features such as these make The Paleo Approach the ultimate resource for anyone suffering from an autoimmune disease Why suffer a moment longer Reclaim your health with The Paleo Approach *NCLEX-PN Review Made Incredibly Easy!*. ,2009 Discover the stress free way to study for the licensure examination With NCLEX PN Review Made Incredibly Easy Third Edition you ll actually enjoy learning stay motivated and improve your performance on the NCLEX PN BOOK JACKET **Pocket Guide to Fluid, Electrolyte, and Acid-Base Balance - E-Book** Ursula Heitz,Mima M. Horne,2004-10-20 Compares different types of parenteral and enteral feedings along with nursing implications Contains expanded and updated relevant IV therapy and pharmacology Features updated content throughout with current literature and research findings such as most current blood pressure guidelines from the U S Department of Health and Human Services *Pharmacology and the Nursing Process - Tips and Resources* 1FREEDOM BOOKS,2024-11-15 Learn tips and resources about pharmacology and the nursing process This book help you master the pharmacology terms and easily navigate through the pharmacological field Think about the last time you took medication Did you read the directions carefully to decide when and how often to take the drug Were you able to eat before you swallowed the pill Did you have to have a prescription filled or were you able to buy the medicine off the pharmacy shelf Most of these directions were developed based on research and regulations A whole field of investigation called pharmacology is responsible for making sure you are able to receive medications that will treat your ailment and not harm you *Pocket Guide to Fluid, Electrolyte, and Acid-base Balance* Mima M. Horne,1993 **Fluids, Electrolytes and Acid-Base Balance** Jon Haws,Sandra Haws,2015-04-20 Table of contents Fluid and electrolyte basics Kidney s role in fluid and electrolyte balance Disorders of fluid balance Nursing assessment Electrolyte disorders Acid base balance Acid base disorders Case study 1 Case study 2 Lab values in assessment of fluid electrolyte and acid base balance NCLEX fluid and electrolyte questions **Fluid, Electrolyte, and Acid-base Balance** Mima M. Horne,Ursula Easterday Heitz,Pamela L. Swearingen,1991 This book is written to help nursing students and professionals apply the scientific principles of fluid electrolyte and acid base balance to the clinical setting It is scientifically based and focuses on nursing care for patients with a variety of pathophysiologic processes **Acid-base and Electrolyte Balance** Gösta Rooth,1974 [Handbook of Fluid, Electrolyte, and Acid-base Imbalances](#) Joyce LeFever Kee,2000 With a clear comprehensive approach this quick reference

pocket guide of basic principles of fluid electrolyte and acid base balances imbalances and related disorder is a must have for all students The convenient handbook size enables students to keep it handy for quick access to over 200 diagrams and tables containing valuable information A developmental approach is used to provide examples across the life span that illustrate common health problems associated with imbalances Nursing assessments diagnoses interventions and rationales are in a tabular format for quick retrieval and ease of comprehension All the important information students need is right at their fingertips *Electrolytes, Acid-Base Balance and Blood Gases* Wolf Rüdiger Külpmann,H.-K. Stummvoll,Paul

Lehmann,2007-04-13 The first part of this book describes in a condensed manner the current state of diagnosis and treatment of disorders of electrolyte balance It provides the physician with both a rapid aid to orientation at the bedside as well as a comprehensive insight into the pathophysiological relationships involved A separate section deals with electrolytes in the urine In the subsequent chapters preanalysis and analysis of electrolytes are discussed Fluids, Electrolytes, and

Acid Bases George Tom Shires,1988 Designed for the use of critical care specialists anaesthetists and surgeons this text describes the general principles of fluid electrolyte and acid base balance followed by a discussion of the disturbance of balance in the critical care patient and in other specific abnormalities **Fluids, Electrolytes, and Acid-base Balance**

Mary Ann Hogan (MSN.),2007 Essential for course review and NCLEX review this resource is a complete concentrated outline of fluids electrolytes and acid base balance Content includes all of the need to know information covering balances and imbalances of sodium potassium calcium magnesium acids and bases replacement therapies common health problems and much more **Pocket Guide to Fluid, Electrolyte, and Acid-Base Balance** Ursula Heitz,Mima M. Horne,2004-10-01

Fluids and Electrolytes: A Thorough Guide Covering Fluids, Electrolytes and Acid-Base Balance of the Human Body David Andersson,2018-05-24 Fluids and Electrolytes There is no doubt fluid maintenance remains one of the main foundations of medicine Fluids are deemed as being the most essential substance of life Around 60% of our body is made up of water and this serves as a medium for transport of both nutrients and waste products The electrolytes contained within the body water are responsible for the body s most basic functions such as nerve function and functioning of voluntary and involuntary muscles activating enzymes and release of hormones Maintenance of these components in a constant balance is essential because the entire metabolic process of the body depends on these components Fluids and electrolytes are not static but interact continuously with each other and with other components of the body It is essential to understand these interactions and the role they play in maintenance of health Imbalances in these substances within the body are responsible for some of the most significant medical conditions and disorders Any patient who has presented with a fairly serious medical illness is bound to have some kind of imbalance in the fluid electrolyte levels All patients in intensive care units are routinely screened for such imbalances Thus it is apparent that a medical professional needs to have a firm grasp of the fundamentals of electrolytes fluids and acid base balance in the body so that effective treatment can be carried out This subject is often

confusing for both the beginner medical student and the day to day medical practitioner However once the underlying basic concepts of fluids and electrolytes are grasped it becomes easy to recognize imbalances in these systems and it follows that treatment becomes easier and more planned In this book we will discuss the regulation of fluids electrolytes and the acid base system and how these factors are interconnected When there is an imbalance in one of these electrolytes the others are usually affected Similarly electrolyte imbalances can arise from or be a result of acid base disorders We will also discuss the signs and symptoms of various imbalances and touch upon the management modalities for these imbalances Common medical conditions where there are massive imbalances are described in the last chapter There are summaries at the end of each chapter that help you quickly glance through essential information Lastly this book tests what you have learned with post chapter tests

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