

FLUID BALANCE

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

Fluid Intake

- Water
- Food
- Intravenous fluids
- Medications
- Oral supplements
- IV fluids
- Oral fluids
- Medications
- Oral supplements

Fluid Output

- Urine
- Stool
- Sweat
- Respiratory
- Other

Fluid Balance

- Positive fluid balance
- Negative fluid balance
- Fluid balance

IV solutions

0.9% NaCl

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

0.45% NaCl

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

0.33% NaCl

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

0.22% NaCl

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

Intravenous Therapy Complications

Infusion

- Infusion rate
- Infusion volume
- Infusion time
- Infusion site
- Infusion device
- Infusion solution
- Infusion container
- Infusion pump
- Infusion filter
- Infusion alarm
- Infusion stop

STOP

Phlebitis

- Phlebitis is a condition that causes inflammation of the vein.
- Phlebitis can be caused by many factors, including:
- Infection
- Trauma
- Chemical irritation
- Mechanical irritation
- Stasis
- Hypertension
- Hyperlipidemia
- Hypercoagulability
- Hypernatremia
- Hyperkalemia
- Hypercalcemia
- Hypermagnesemia
- Hyperphosphatemia
- Hyperuricemia
- Hyperbilirubinemia
- Hypercreatininemia
- Hyperamylasemia
- Hyperlipidemia
- Hypercoagulability
- Hypernatremia
- Hyperkalemia
- Hypercalcemia
- Hypermagnesemia
- Hyperphosphatemia
- Hyperuricemia
- Hyperbilirubinemia
- Hypercreatininemia
- Hyperamylasemia

Catheter

- Catheter is a tube that is inserted into the body.
- Catheters can be used for many purposes, including:
- Urinary catheterization
- Central venous catheterization
- Peritoneal dialysis
- Hemodialysis
- Ventilation
- Nutrition
- Medication administration
- Fluid resuscitation
- Blood sampling
- Drainage
- Irrigation
- Lavage
- Aspiration
- Infusion
- Transfusion
- Dialysis
- Perfusion
- Circulation
- Respiration
- Excretion
- Reproduction
- Growth
- Development
- Aging
- Death

Electrolyte: Sodium

Sodium

Na⁺

135-145 mEq/L

Hypernatremia

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

Hypонатremia

- Decreased level of sodium
- Causes: hyponatremia, excessive water intake, renal failure

Interventions

- Monitor sodium levels
- Administer sodium supplements
- Restrict fluid intake
- Administer diuretics
- Monitor fluid balance
- Administer sodium chloride

Electrolyte: Calcium

Calcium

Ca⁺⁺

9-10 mEq/L

Hypercalcemia

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

Hypocalcemia

- Decreased level of calcium
- Causes: hypoparathyroidism, excessive calcium excretion, renal failure

Interventions

- Monitor calcium levels
- Administer calcium supplements
- Restrict calcium intake
- Administer diuretics
- Monitor fluid balance
- Administer calcium chloride

BALANCE

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- Fluid balance

Acid-Base Imbalances

Acid-Base Imbalances

Acid-base imbalances are conditions that affect the pH of the blood.

Acidosis

- Low pH
- Causes: metabolic acidosis, respiratory acidosis

Alkalosis

- High pH
- Causes: metabolic alkalosis, respiratory alkalosis

Interventions

- Monitor pH levels
- Administer acid or base supplements
- Restrict acid or base intake
- Administer diuretics
- Monitor fluid balance
- Administer acid or base chloride

ARTERIAL BLOOD GAS (ABG) ANALYSIS

ABG Analysis

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

Normal ABG Values

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

Interpretation

- pH < 7.35: Acidosis
- pH > 7.45: Alkalosis
- PaO₂ < 80 mmHg: Hypoxemia
- PaCO₂ < 35 mmHg: Respiratory alkalosis
- PaCO₂ > 45 mmHg: Respiratory acidosis
- HCO₃⁻ < 22 mEq/L: Metabolic acidosis
- HCO₃⁻ > 28 mEq/L: Metabolic alkalosis

Interventions

- Monitor ABG levels
- Administer oxygen
- Administer acid or base supplements
- Restrict acid or base intake
- Administer diuretics
- Monitor fluid balance
- Administer acid or base chloride

Electrolyte: Magnesium

Magnesium

Mg⁺⁺

1.3-2.1 mEq/L

Hypermagnesemia

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

Hypomagnesemia

- Decreased level of magnesium
- Causes: hypomagnesemia, excessive magnesium excretion, renal failure

Interventions

- Monitor magnesium levels
- Administer magnesium supplements
- Restrict magnesium intake
- Administer diuretics
- Monitor fluid balance
- Administer magnesium chloride

Electrolyte: Potassium

Potassium

K⁺

3.5-5 mEq/L

Hyperkalemia

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

Hypokalemia

- Decreased level of potassium
- Causes: hypokalemia, excessive potassium excretion, renal failure

Interventions

- Monitor potassium levels
- Administer potassium supplements
- Restrict potassium intake
- Administer diuretics
- Monitor fluid balance
- Administer potassium chloride

Electrolytes Cheat Sheet Acid Base Balance

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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

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

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 **Pocket Guide to Fluid, Electrolyte, and Acid-base Balance** Mima M. Horne,Ursula Easterday Heitz,Pamela L. Swearingen,1997 This reference guide provides essential information on basic principles of fluid and electrolyte balance related disorders specific imbalance conditions and associated patient care The guide cross references information by specific imbalances and medical conditions to allow the user to locate information and features expanded paediatric and geriatric content 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 Sheryl A. Innerarity,June L. Stark,1994 You ll find a complete outline and review of fluids and electrolytes The easy to read format provides all the information you need essential concepts assessment and monitoring guidelines fluid acid base and electrolyte imbalances nursing interventions replacement therapy pediatric and geriatric care conditions that cause imbalances and more Water, Electrolyte, and Acid-base Balance Harry F. Weisberg,1962

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Table of Contents Electrolytes Cheat Sheet Acid Base Balance

1. Understanding the eBook Electrolytes Cheat Sheet Acid Base Balance
 - The Rise of Digital Reading Electrolytes Cheat Sheet Acid Base Balance
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrolytes Cheat Sheet Acid Base Balance
 - 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 Electrolytes Cheat Sheet Acid Base Balance
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrolytes Cheat Sheet Acid Base Balance
 - Personalized Recommendations
 - Electrolytes Cheat Sheet Acid Base Balance User Reviews and Ratings
 - Electrolytes Cheat Sheet Acid Base Balance and Bestseller Lists
5. Accessing Electrolytes Cheat Sheet Acid Base Balance Free and Paid eBooks
 - Electrolytes Cheat Sheet Acid Base Balance Public Domain eBooks
 - Electrolytes Cheat Sheet Acid Base Balance eBook Subscription Services
 - Electrolytes Cheat Sheet Acid Base Balance Budget-Friendly Options

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

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