

## Fluid, Electrolyte & Acid-base Homeostasis

### Overview of body fluids:

#### Body Fluids and Water content:

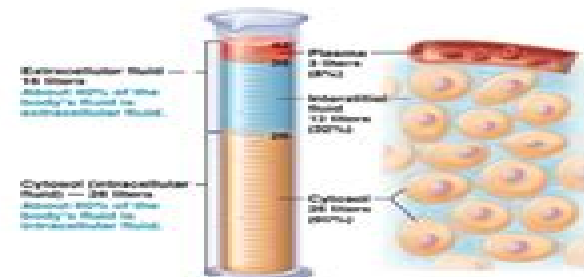
- Body Fluids is a term used to encompass all of body's water-based *liquids*, including:
  - Blood plasma
  - Interstitial fluid
  - Cytosol (fluid inside cells)
  - Cerebrospinal fluid
  - Lymph and exocrine secretions
- About 60% of the human body is comprised of water
  - Differences in total water content in the body can be due to age, sex and weight and body composition
  - Tissues like skeletal muscle have a higher water content than adipose (fat) tissue

#### Importance of water Homeostasis:

- Functions of water in body include:
  - Water acts as a universal solvent: transports a large number of dissolved solutes around the body
  - Distributes body heat
  - Cushions and protects organs and tissues
  - Lubricates organs and tissues as they move
- Factors which impact body water balance:
  - Water intake
  - Kidney function (GFR)
  - Digestive function
  - Physical activity (activity increases sympathetic activation → reduces blood flow to kidneys and digestive organs → reduces water output)
  - Medications (diuretics, anti-diuretics, laxatives)
- Imbalances that body is unable to compensate for due to inadequate or excessive amounts of water in body can have serious consequences on homeostasis

#### Fluid compartments:

- Body fluids are found within two main compartments:
  - 1. Intracellular compartment**
    - Known as intracellular fluid (ICF)
    - Composed of the fluid found within cells (cytosol)
    - ICF accounts for about 60% of the body's fluids
  - 2. Extracellular compartment**



# Fluids Electrolytes And Acid Base Homeostasis Quick Review Notes

**Kevin T. Patton**



## **Fluids Electrolytes And Acid Base Homeostasis Quick Review Notes:**

*Fluids, Electrolytes and Acid-Base Homeostasis: Physiology Quick Review* E Staff, Learn and review on the go Use Quick Review Anatomy Physiology Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Key facts you need to know about fluid and electrolyte regulation in the human body Perfect study notes for all health sciences premed medical and nursing students **NCLEX Study Review Notes (MEGA PACK) - 400 Pages** E Staff, Preparing for the NCLEX Start on the road to success today Get ready to ace the exam by quickly reviewing all the important facts that you need to know From quick facts to mnemonics and everything in between is included in this NCLEX Study Review Notes Mega Pack 400 pages [Pediatric Critical Care E-Book](#) Jerry J. Zimmerman, 2016-11-29 Still the 1 resource for today's pediatric ICU teams Pediatric Critical Care 5th Edition covers the entire field from basic science to cutting edge clinical applications Drs Bradley P Fuhrman and Jerry J Zimmerman accompanied by an expert team of editors and contributors from around the world bring you today's best information on the current and future landscape of pediatric critical care so you can consistently deliver optimum care to your young patients Boasts highly readable concise chapters with hundreds of useful photos diagrams algorithms and clinical pearls Clear logical organ system approach allows you to focus on the development function and treatment of a wide range of disease entities Includes new content on the expanding use of ultrasound at the bedside and the increase in nursing responsibilities in the PICU Eighteen new chapters cover topics such as delirium metabolism endocrinology nutrition nursing and much more Features expanded and updated information on critical communication professionalism long term outcomes palliative care ultrasonography PCCM in resource limited settings ventilator induced lung injury non invasive ventilation updated CNS pathophysiology the Erythron and immunity and infection *Quick Review Series For B.Sc. Nursing: 1st Year - E-Book* Annu Kaushik, 2018-02-06 QRS for BSc Nursing 1st Year is an extremely exam oriented book The book contains a collection of the last 10 years solved questions of Anatomy Physiology Nutrition Bio chemistry Microbiology Psychology and Nursing Foundation in accordance with the new syllabus as per Indian Nursing Council The book will serve the requirements of BSc Nursing 1st year students to prepare for their examinations Collection of last 10 years solved questions asked in different university examinations across India Viva Voce questions Richly illustrated and lucid content presented with utmost simplicity Simple and easily reproducible diagrams Sample Papers for self practise Answers in point format Sample questions for non clinical subjects like English and Computers *Lewis's Adult Health Nursing I and II: Assessment and Management of Clinical Problems* 5SAE 2V - E-Book Chintamani, Dr. L. Gopichandran, Mrinalini Mani, 2024-05-20 The 12th edition of Lewis's Medical Surgical Nursing served as the model for Lewis's Adult Health Nursing I II Fifth South Asia Edition which offers a thorough authentic approach to medical surgical nursing or adult health nursing in a clear approachable manner for students This fifth South Asia edition has been thoroughly revised to incorporate the most current information in a format that is easy

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acid base disorders It provides both a detailed matrix for managing patients with specific electrolyte disorders and clinical conditions associated with electrolyte imbalances      **Introduction to Human Disease** Leonard V. Crowley,1997

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