

Chapter 21: Water, Electrolyte, and Acid-Base Balance

I. Introduction

- A. Balance suggests a state of equilibrium.
- B. Levels of water and electrolytes in the body remain relatively stable at all times.
- C. Water balance and electrolyte balance are interdependent because electrolytes are dissolved in the water of body fluids.
- D. Anything that alters the concentrations of electrolytes will alter the concentration of the water by adding solutes to it or by removing solutes from it.

II. Distribution of Body Fluids

A. Introduction

- 1. Body fluids occur in compartments of different volumes that contain fluids of varying compositions.
- 2. The movement of water and electrolytes between compartments is regulated to stabilize their distribution and the composition of body fluids.

B. Fluid Compartments

- 1. The body of an average adult female is about 52% water by weight, and that of an average male is about 63% water.
- 2. The differences of water content between the sexes are due to the fact that females generally have more adipose tissue, which has little water.
- 3. The two major fluid compartments of the body are intracellular and extracellular.
- 4. The intracellular compartment includes all the water and electrolytes that cell membranes enclose.
- 5. Intracellular fluid represents about 63% by volume of total body water.
- 6. The extracellular fluid compartment includes all the fluid outside the cells.

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David R. Klein, Laurie S. Starkey



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