

Chapter 28

Electrolyte and Water Balance

Chapter at a Glance

The learner will be able to answer questions on the following topics:

- ☐ Intake and output of water
- ☐ Osmolality of extracellular fluid
- ☐ Electrolyte composition of body fluids
- ☐ Regulation of sodium and water balance
- ☐ Renin-angiotensin system
- ☐ Isotonic/hypotonic/hypertonic contraction, ECF
- ☐ Isotonic/hypotonic/hypertonic expansion, ECF
- ☐ Sodium metabolism
- ☐ Potassium metabolism
- ☐ Chloride metabolism

The maintenance of extracellular fluid volume and pH are closely interrelated. The body water compartments are shown in Box 28.1. Body is composed of about 60–70% water. Distribution of water in different body water compartments depends on the solute content of each compartment. Osmolality of the intra- and extracellular fluid is the same, but there is marked difference in the solute content.

INTAKE AND OUTPUT OF WATER

One gram carbohydrate, during oxidation produces 0.6 mL of water, 1 g protein releases 0.4 mL water and

1 g fat generates 1.1 mL of water. Intake of 1000 kcal produces 125 mL water (Table 28.1). The major factors controlling the intake are thirst and the rate of metabolism.

The thirst center is stimulated by an increase in the osmolality of blood, leading to increased intake.

The renal function is the major factor controlling the rate of output. The rate of loss through skin is influenced by the weather, the loss being more in hot climate (perspiration) and less in cold climate. Loss of water through skin is increased to 13% for each degree centigrade rise in body temperature during fever.

BOX 28.1: The body water compartment

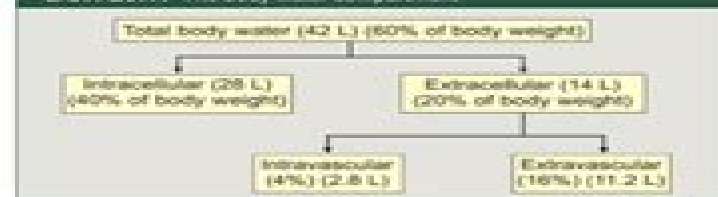


TABLE 28.1: Water balance in the body

| Intake per day | | Output per day | |
|-------------------|---------|----------------|---------|
| Water in food | 1250 mL | Urine | 1500 mL |
| Oxidation of food | 300 mL | Skin | 500 mL |
| Drinking water | 1200 mL | Lungs | 700 mL |
| | | Feces | 50 mL |
| | 2750 mL | | 2750 mL |

Handbook Of Clinical Chemistry Regulation Water And Electro Balance

Julia Schneider



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