

IV.B. ELECTROLYTES & THEIR DYSFUNCTION

	<u>Page</u>
B.a. GENERAL IVB-1
B.a.A. FUNCTIONS OF ELECTROLYTES	
Table IVB-1. Functions of Electrolytes in the Body	
B.a.B. TERMINOLOGY	
B.a.C. RELATIVE CONCENTRATIONS IVB-2
Critical Figure IVB-1. Relative Concentrations of Electrolytes in Three Fluid Compartments	
B.b. SODIUM	
B.b.A. NORMAL GAINS & LOSSES	
B.b.B. RENAL RETENTION	
Critical Figure IVB-2. The Coupling of K ⁺ /H ⁺ Secretion to Na ⁺ reabsorption	
Critical Path IVB-1. Mechanisms of Sodium Regulation IVB-3
B.b.C. HYPONATREMIA	
B.b.C.a. CONDITIONS	
B.b.C.b. ETIOLOGIC FACTORS	
Path IVB-2. Manifestations of Hyponatremia	
B.b.D. HYPERNATREMIA	
B.b.D.a. CONDITIONS	
B.b.D.b. ETIOLOGIC FACTORS	
B.c. POTASSIUM IVB-4
B.c.A. NORMAL GAINS & LOSSES	
B.c.B. REGULATION	
B.c.B.a. RENAL MECHANISMS	
B.c.B.b. REDISTRIBUTION BETWEEN FLUID COMPARTMENTS	
B.c.C. HYPOKALEMIA	
B.c.C.a. ETIOLOGIC FACTORS	
B.c.C.b. PATHOPHYSIOLOGY	
B.c.C.b.(A.) ETIOLOGY OF HYPOKALEMIA	
Path IVB-3. General Etiology of Hypokalemia	
B.c.C.b.(B.) MANIFESTATIONS OF HYPOKALEMIA IVB-5
Path IVB-4. Manifestations of Hypokalemia	
B.c.D. HYPERKALEMIA	
B.c.D.a. ETIOLOGIC FACTORS	
B.c.D.b. PATHOPHYSIOLOGY	
B.c.D.b.(A.) ETIOLOGY OF HYPERKALEMIA	
Path IVB-5. General Etiology of Hyperkalemia	
B.c.D.b.(B.) MANIFESTATIONS OF HYPERKALEMIA IVB-6
Path IVB-6. General Manifestations of Hyperkalemia	
B.d. CALCIUM & PHOSPHATE BALANCE	
B.d.A. BACKGROUND	
B.d.B. NORMAL GAINS, STORAGE & LOSSES	
B.d.C. REGULATION	
Figure IVB-3. Roles of Vitamin D & PTH in Ca ⁺⁺ & PO ₄ ⁻ regulation	
Path IVB-7. Normal Mechanisms for Calcium & Phosphate Regulation IVB-7
B.e. CALCIUM	
B.e.A. EXTRACELLULAR Ca⁺⁺ LEVELS	
Path IVB-8. Mechanisms of Calcium Regulation	
B.e.B. HYPOCALCEMIA	
B.e.B.a. ETIOLOGIC FACTORS	
B.e.B.b. PATHOPHYSIOLOGY	
B.e.B.b.(A.) ETIOLOGY OF HYPOCALCEMIA	
Path IVB-9. General Etiology of Hypocalcemia	
B.e.B.b.(B.) MANIFESTATIONS OF HYPOCALCEMIA IVB-8
Path IVB-10. General Manifestations of Hypocalcemia	
B.e.C. HYPERCALCEMIA	
B.e.C.a. ETIOLOGIC FACTORS	
B.e.C.b. PATHOPHYSIOLOGY	
Path IVB-11. Pathophysiology of Hypercalcemia	