## **Contents**

	Preface	
	Acknowledgement	ix
SEC 7	TION 1: Nutrition in Health and Disease	
1.	Nutrition and Brain Development	3
2.	Fetal Malnutrition and Brain Development	7
3.	Early Childhood Nutrition and Brain Development	10
4.	Newborn Feeding	14
5.	Feeding the Low Birth Weight Infants	18
6.	Nutrition of Adolescents	20
7.	Nutritional Assessment	22
8.	Vitamin Dependency	29
9.	Vitamin-A Deficiency and Toxicity	31
10.	Vitamin-E (Tocopherol)	34
11.	Vitamin-K	35
12.	Thiamine	36
13.	Nicotinic Acid	38
14.	Riboflavin	40
15.	Pyridoxine	41
16.	Vitamin-C	43
17.	Vitamin-D	45
18.	Complete Parenteral Nutrition	50
19.	Elemental Diet	53
20.	Nutrition in Disease States	55
21.	Protein Energy Malnutrition	62
22.		
23.	Detection of Food-Born Pathogens	88
24.	Micronutrients Excess	91
25.	Nutrigenomics	93
SECT	TION 2: Metabolic Disorders	
1.	Anabolic Steroids Misuse	
2.	Osteoporosis and Osteomalacia	99

1. 2. 3. 4. 5. 6. 7. 8. 9.	,	
1. 2. 3. 4. 5. 6. 7. 8. 9.	Methylmalonic Acidemia	
1. 2. 3. 4. 5. 6. 7. 8.	Methylmalonic Acidemia	
1. 2. 3. 4. 5. 6. 7. 8.	Methylmalonic Acidemia	
1. 2. 3. 4. 5. 6. 7.	Methylmalonic Acidemia  Galactosemia	
1. 2. 3. 4. 5. 6.	Methylmalonic Acidemia  Galactosemia	
1. 2. 3. 4. 5.	Methylmalonic Acidemia  Galactosemia  Porphyria  Gaucher Disease  Menkes Kinky Hair Syndrome  Wilson Disease	
1. 2. 3. 4. 5.	Methylmalonic Acidemia  Galactosemia  Porphyria  Gaucher Disease  Menkes Kinky Hair Syndrome	
1. 2. 3. 4.	Methylmalonic Acidemia  Galactosemia  Porphyria  Gaucher Disease	163 164 166
1. 2. 3.	Methylmalonic Acidemia  Galactosemia  Porphyria	163
1. 2.	Methylmalonic Acidemia	163
1.	Methylmalonic Acidemia	
		161
SEC1	FION 3: Diseases of Inborn Metabolic Errors	
1).	Que1 e c e e e e e e e e e e e e e e e e e	130
	Quercetin	
17. 18.	, ,	
16.	Reactive Metabolites	
15.	Obesity	
14.		
13.		
12.	Aminoacidopathies	
11.	Metabolic Acidosis	
10.	Hyperlactatemia and Lactic Acidosis	
9.	Hypolipoproteinaemia and Hyperlipoproteinaemia	
8.	Hypo-Glycemia	
7.	Dehydration	
0.	Zinc in Health and Disease	
6.	Hypocupremia and Hypercupremia	103
5.	· · · · · · · · · · · · · · · · · · ·	
	Hypo-Magnesimia	102

	Nail Changes in Systemic Diseases	
5.	Macular Amyloidosis	187
6.	Lichen Planus	188
7.	Acne	189
8.	Erythroderma	
9.	Erythema Elevatum Dilutinum	191
10.	Lyme Disease	192
	Acrodermatitis Enteropathica	
	Scleredama	
13.	Erythema Ab Igne	196
14.	Cutaneous Tuberculosis	197
	Tinea Corporis	
	Wells Syndrome	
17.	Erythema Nodosum	200
18.	Skin Disorders in the Elderly	202
19.	Xeroderma Pigmentosa	203
20	Tubarous Sclarosis	20/