# **Contents**

Chamber 1. Internetion to Child Haulth		Chanter F. Natisfan in Children
Chapter 1: Introduction to Child Health	1	Chapter 5: Nutrition in Children 44
<ul> <li>Concept of Child Health 1</li> <li>Trends in Child Health Care 2</li> </ul>		<ul> <li>Nutritional Requirements in Children 44</li> <li>Breastfeeding 48</li> </ul>
<ul> <li>Child Health Problems 4</li> <li>Disasse Detterre in children</li> </ul>		<ul> <li>Complementary Feeding or Weaning 54</li> <li>Artificial Feeding 55</li> </ul>
<ul> <li>Disease Patterns in Children 5</li> <li>Statistics Palated to Child Haalthan C</li> </ul>		
<ul> <li>Statistics Related to Child Health 6</li> <li>Child Health Country Indianal</li> </ul>		
<ul> <li>Child Health Care in India 8</li> <li>Distance of the Child — 0</li> </ul>		
<ul> <li>Rights of the Child 9</li> </ul>		
<ul> <li>Universal Children's Day</li> </ul>		
<ul> <li>National Policy for Children 10</li> </ul>		•
<ul> <li>Children Act 10</li> </ul>		<ul> <li>National Programmes on Nutrition 61</li> </ul>
Chapter 2: Introduction to Pediatric Nursing	12	Chapter 6: Newborn Infant 62
<ul> <li>Concept of Pediatric Nursing 12</li> </ul>		<ul> <li>Healthy Newborn Infant 62</li> <li>Germany Hackberger (the Number Package 70)</li> </ul>
<ul> <li>Goals of Pediatric Nursing 12</li> </ul>		<ul> <li>Common Health Problems of the Newborn Baby 70</li> </ul>
<ul> <li>Qualities of Pediatric Nurse 12</li> </ul>		♦ Apnea in Neonates 83
<ul> <li>Role of the Pediatric Nurse 12</li> </ul>		✤ High-risk Neonates 100
<ul> <li>Functions of Pediatric Nurse 13</li> </ul>		
Trends in Pediatric Nursing 14		♦ Grades of Neonatal Care 111
Emerging Challenges in Pediatric Nursing 14		<ul> <li>Transport of Sick Neonates 112</li> </ul>
Nursing Process Related to Pediatric Nursing 15		Chapter 7: Growth, Development and the Healthy Child 115
<ul> <li>Concept of Preventive Pediatrics 21</li> </ul>		<ul> <li>Growth and Development 115</li> </ul>
Chapter 3: Preventive Pediatrics	21	<ul> <li>Needs of the Healthy Child 129</li> </ul>
<ul> <li>♦ Family Health 21</li> </ul>	21	<ul> <li>Health Promotion of Children and Guidance to Parent for</li> </ul>
<ul> <li>Maternal and Child Health 22</li> </ul>		Child Care 135
<ul> <li>Reproductive and Child Health 22</li> </ul>		Chapter 8: Sick Child 138
<ul> <li>Baby Friendly Hospital Initiative 23</li> </ul>		<ul> <li>Setting of Pediatric Illness Care Delivery 138</li> </ul>
Let and the Child Development Comission 24		<ul> <li>Hospitalization of Sick Child 139</li> </ul>
		<ul> <li>Child's Reaction to Hospitalization and Prolonged Illness 139</li> </ul>
		<ul> <li>Effects of Hospitalization on the Family of the Child 140</li> </ul>
		<ul> <li>Role of Nurse to Help to Cope with Stress of Illness and</li> </ul>
	20	Hospitalization of Children 140
	29	<ul> <li>Nursing Interventions and Adaptations in Nursing Care of</li> </ul>
C: (CI : 1 ) 30		Sick Child 141
Condex Disc. 21		Chapter 9: Common Health Problems during Childhood 166
E LE CLI DA		✤ Fever 166
		<ul> <li>Excessive Cry 168</li> </ul>
		<ul> <li>Vomiting 168</li> </ul>
-		<ul> <li>Diarrhea 170</li> </ul>
<ul> <li>Nursing Responsibilities in Preventive Pediatrics 34</li> </ul>		<ul> <li>Constipation 170</li> </ul>
Chapter 4: Immunization	35	<ul> <li>Abdominal Pain 170</li> </ul>
<ul> <li>Vaccine Preventable Diseases 35</li> </ul>		<ul> <li>Abdominal Distension 171</li> </ul>
<ul> <li>Immunizing Agents 35</li> </ul>		✤ Allergies 171
<ul> <li>National Immunization Schedule 36</li> </ul>		<ul> <li>Poisoning 172</li> </ul>
<ul> <li>Immunization of Children 37</li> </ul>		<ul> <li>Bites and Stings 174</li> </ul>
✤ Cold Chain 42		<ul> <li>Foreign Bodies 176</li> </ul>
<ul> <li>Nursing Responsibilities for Child Immunization 43</li> </ul>		<ul> <li>Multiple Injuries 177</li> </ul>

Contents

✤ Failure to Thrive 177	<ul> <li>Esophageal Atresia with Tracheoesophageal Fistula 281</li> </ul>
<ul> <li>Developmental Disorders 178</li> </ul>	♦ Gastroesophageal Reflux Disease 283
Chapter 10: Behavioral Disorders in Children 180	<ul> <li>Intestinal Obstruction 284</li> </ul>
<ul> <li>Behavioral Problems of Infancy 181</li> </ul>	<ul> <li>♦ Acute Abdomen 285</li> <li>♦ Annuali ditia 200</li> </ul>
<ul> <li>Behavioral Problems of Childhood 181</li> </ul>	<ul> <li>♦ Appendicitis 286</li> <li>♦ Uirschammung Disagan 287</li> </ul>
<ul> <li>Behavioral Problems of Adolescence 185</li> </ul>	<ul> <li>Hirschsprung's Disease 287</li> <li>Anorectal Malformations 289</li> </ul>
<ul> <li>Nursing Responsibilities in Behavioral Disorders of Children 186</li> </ul>	
Chapter 11: Congenital Anomalies 187	<ul> <li>Umbilical Malformations 291</li> <li>Hernia 292</li> </ul>
<ul> <li>Concepts of Congenital Anomalies 187</li> </ul>	<ul> <li>Rectal Prolapse 293</li> </ul>
<ul> <li>Etiology of Congenital Anomalies 188</li> </ul>	<ul> <li>Pancreatitis 293</li> </ul>
<ul> <li>Diagnostic Approaches 189</li> </ul>	<ul> <li>✓ Jaundice (Icterus) 294</li> </ul>
Common Congenital Anomalies 189     Drugget of Congenital Anomalies 103	✤ Hepatomegaly 294
<ul> <li>Prevention of Congenital Anomalies 193</li> <li>Genetic Counseling 193</li> </ul>	<ul> <li>Extrahepatic Biliary Atresia (EHBA) 295</li> </ul>
<ul> <li>Genetic Counseling 193</li> <li>Nursing Responsibilities Towards Congenital Anomalies 194</li> </ul>	<ul> <li>Liver Abscess 296</li> </ul>
	<ul> <li>Indian Childhood Cirrhosis 296</li> </ul>
Chapter 12: Nutritional Deficiency Disorders 195	✤ Etiology 296
<ul> <li>Ecology of Malnutrition 196</li> <li>Assessment of Nutritional Problems 196</li> </ul>	Chapter 17: Heart Diseases in Children 298
	Set a construction 298
<ul> <li>Protein-energy Mainutrition 197</li> <li>Vitamins and their Deficiency Disorders 201</li> </ul>	<ul> <li>Congenital Heart Disease 300</li> </ul>
<ul> <li>Minerals and their Deficiency Disorders 205</li> </ul>	<ul> <li>Congestive Cardiac Failure 306</li> </ul>
<ul> <li>Community Nutrition Programs 207</li> </ul>	✤ Acute Rheumatic Fever 307
	<ul> <li>Rheumatic Heart Disease 309</li> </ul>
Chapter 13: Fluids, Electrolytes and Acid-Base Disturbances       209	<ul> <li>Infective Endocarditis 310</li> </ul>
<ul> <li>Body Fluids 209</li> <li>Electrolyte Composition of Body Fluids 210</li> </ul>	<ul> <li>Cardiomyopathy in Children 312</li> </ul>
<ul> <li>Acid-Base Balance 210</li> </ul>	Chapter 18: Childhood Blood Dyscrasias 313
<ul> <li>Fluid Imbalance 211</li> </ul>	↔ Anemia 313
<ul> <li>Electrolyte Imbalance 212</li> </ul>	<ul> <li>Iron Deficiency Anemia 315</li> </ul>
✤ Acid-Base Imbalance 213	<ul> <li>Megaloblastic Anemia 318</li> </ul>
<ul> <li>Clinical Conditions Requiring Fluid Therapy 215</li> </ul>	<ul> <li>Hereditary Spherocytosis (Congenital Hemolytic</li> </ul>
<ul> <li>Monitoring of Fluid and Electrolyte Imbalance 215</li> </ul>	Anemia, Familial Acholuric Jaundice) 318
Chapter 14: Common Communicable Diseases in Children 217	<ul> <li>Sickle Cell Anemia 318</li> </ul>
<ul> <li>Common Viral Infections 217</li> </ul>	✤ Aplastic Anemia 319
<ul> <li>Common Bacterial Infections 234</li> </ul>	<ul> <li>Thalassemia (Cooley's Anemia, Mediterranean Anemia) 319</li> </ul>
<ul> <li>Common Parasitosis in Children 246</li> </ul>	♦ Hemophilia 322
Chapter 15: Respiratory Diseases 259	<ul> <li>Leukemia 324</li> <li>Planding Directory (Durpurs 237)</li> </ul>
<ul> <li>Acute Respiratory Infections 259</li> </ul>	<ul> <li>Bleeding Disorders/Purpura 327</li> <li>Disseminated Intravascular Coagulation 329</li> </ul>
<ul> <li>Bronchiectasis 262</li> </ul>	<ul> <li>Disseminated Intravascular Coagulation 329</li> <li>Immunodeficiency 329</li> </ul>
✤ Emphysema 264	-
✤ Atelectasis 265	Chapter 19: Disorders of Kidney and Urinary Tract 333
<ul> <li>Pleural Effusion 265</li> </ul>	<ul> <li>Congenital Abnormalities of the Kidney and Ukinaw Tract 222</li> </ul>
✤ Empyema 266	Urinary Tract 333 Wilms' Tumor (Nephroblastoma) 336
<ul> <li>Pneumothorax 266</li> <li>Lung Absorg 267</li> </ul>	<ul> <li>Wilms Tumor (Nephroblastoma) 336</li> <li>Nursing Management of the Child with Urologic Surgery 337</li> </ul>
<ul> <li>♦ Lung Abscess 267</li> <li>♦ Bronchial Asthma 267</li> </ul>	<ul> <li>Acute Glomerulonephritis 337</li> </ul>
<ul> <li>Bronchial Asthma 267</li> <li>Status Asthmaticus 268</li> </ul>	<ul> <li>Chronic Glomerulonephritis 339</li> </ul>
<ul> <li>Drowning and Near-Drowning 271</li> </ul>	<ul> <li>Urinary Tract Infections 339</li> </ul>
<ul> <li>Cystic Fibrosis 271</li> </ul>	<ul> <li>Nephrotic Syndrome 340</li> </ul>
	<ul> <li>♦ Acute Renal Failure 341</li> </ul>
Chapter 16: Diseases of Gastrointestinal System and Liver       273 <ul> <li>▶ Diarrheal Diseases</li> <li>273</li> </ul>	<ul> <li>Chronic Renal Failure 344</li> </ul>
<ul> <li>Dialified Diseases 275</li> <li>Dysentery 277</li> </ul>	<ul> <li>Care of the Child Who Undergoes Dialysis 345</li> </ul>
<ul> <li>Disentery 277</li> <li>Malabsorption Syndrome 278</li> </ul>	Chapter 20: Burns and Skin Diseases 347
<ul> <li>Wildebsorption Syndrome 27.6</li> <li>Wilcerative Colitis 27.9</li> </ul>	Burns in Children 347
<ul> <li>Hypertrophic Pyloric Stenosis 280</li> </ul>	<ul> <li>Common Skin Diseases in Children 352</li> </ul>

## Contents

## Chapter 21: Diseases of Central Nervous System 356 Child in Coma 356 ✤ Meningitis 359 Encephalitis and Encephalopathy 361 Guillain-Barré Syndrome (Infective Polyneuritis) 363 ٠ Convulsive Disorders 363 • Cerebral Palsy 367 ٠ Mental Retardation 369 ٠ Autism or Autism Spectrum Disorders 371 Down Syndrome (Mongolism) 371 Neural Tube Defects (Myelodysplasia, Dysraphism) 372 ✤ Hydrocephalus 374 ✤ Intracranial Space-occupying Lesions 377 ✤ Brain Tumors 377 Head Injury (Craniocerebral Trauma) 378 **Chapter 22: Endocrine Disorders in Children** 382 ✤ Short Stature 382 Disorders of Pituitary Glands 383 ✤ Diabetes Insipidus 383 ✤ Disorders of Thyroid Glands 384 ✤ Disorders of Parathyroid Glands 386 Disorders of Adrenal Glands 387 Congenital Adrenal Hyperplasia 387 ✤ Ambiguous Genitalia 388 Undescended Testes (Cryptorchidism) 388 \* Precocious Puberty 389 ٠ Delayed Sexual Development (Delayed Puberty) 390 • Menstrual Abnormalities 390 \* ✤ Obesity 392 ✤ Diabetes Mellitus 392 Chapter 23: Eye, ENT and Orodental Problems in Children 396 ✤ Diseases of the Eye 396 ✤ Ear Problems in Children 400 ✤ Disorders of Nose 404 ✤ Disorders of Throat 405 ✤ Dental Problems 407 Problems of Oral Cavity 408 ✤ Cleft Lip and Cleft Palate 409 **Chapter 24: Musculoskeletal Disorders in Children** 412 ✤ Disorders of Muscles 412 ✤ Disorders of Bones 413 ✤ Diseases of Joints 421 Chapter 25: Handicapped Children (Specially-abled) and **Child Welfare** 424 ✤ Handicapped Children (Specially-abled) 424 ✤ Welfare of Children 427 Appendices 433 ✤ Appendix I: Basic Care of the Baby at Birth 433 Appendix II: Children Learn what they Live 433 ✤ Appendix III: Prelude 434, His Name is 'Today' 434 ✤ Appendix IV: Height and Weight of Indian Boys and Girls from 1 to 18 Years 435 Appendix V: Normal Blood Pressure Values at Various Ages 436

*	Appendix VIII: Normal Biochemical Values 437
*	Appendix IX: Acid-base Status (Arterial) 438
*	Appendix X: Normal Hematological Values 439
*	Appendix XI: Cerebrospinal Fluid Constituents 440
*	Appendix XII: Modified Glasgow Coma Scoring System 441
*	Appendix XIII: Oxygen Therapy and Delivery Devices 441
*	Appendix XIV: Pediatric Basic Life Support
	(AHA Guidelines-2020) 442
*	Appendix XIVA: Basic Life Support (BLS) Maneuvers of
	Cardiopulmonary Resuscitation (CPR) 443
*	Appendix XV: Optimal Timing for Surgical Correction 443
*	Appendix XVI: Neutral Thermal Environmental
	Temperatures 445
*	Appendix XVII: Neonatal Resuscitation Algorithm
	(2020) 446; Overview of Significant NRP 8th Edition Practice
	Changes 447
*	Appendix XVIII: Identifying Intrauterine Growth Retardation in a
	Newborn 448
*	Appendix XIX: Maturational Assessment of Gestational Age
	(New Ballard Score) 449
*	Appendix XX: Routine Examination of Newborn Infants 450
*	Appendix XXI: Transient Abnormalities in the First Few
	Days of Life 451
*	Appendix XXII: Overview of Common Neonatal
	Medical Problems 452
*	Appendix XXIII: Fetal-Infant Growth Chart for Preterm
	Infants 453
*	Appendix XXIV: IMNCI Case Management Process 454 Appendix XXV: Emergency Triage Assessment and
*	Treatment 455
*	Appendix XXVI: Neonatal Drug Chart 457
*	Appendix XXVII: Pediatrics Drug Dosages/Regimens 457;
•••	Antituberculosis Antibiotics 458; Management
	of Pediatric Tuberculosis under the Revised
	National Tuberculosis Control Program
	(RNTCP) 459; Chemoprophylaxis 459; Management
	Algorithm for Treating Acute Asthma in a Hospital 460
*	Appendix XXVIII: Bio-Medical Waste (BMW) Management 461
*	Appendix XXIX: IMNCI Protocol 462
*	Appendix XXX: Steps of Hand Wash (WHO Recommended) 470
*	Appendix XXXI: Steps of Hand Rub (WHO Recommended) 471
*	Appendix XXXII: The Glove Pyramid: To Aid Decision Making on
	When to Wear (and not Wear) Gloves 472
*	Appendix XXXIII: WHO Child Growth Standards 473
*	Appendix XXXIV: WHO Child Growth Standards 474
*	Appendix XXXV: National Immunization Schedule 475
*	Appendix XXXVA: Revised National Immunization Schedule 477
*	Appendix XXXVI: SAANS Annexure 1 478;
	SAANS Annexure 3 479; ASHA Screening Format 480
*	Reporting from States/UTs to MoHFW 481
Glo	issary 483

Suggested Reading	501
Index	503

- Appendix VI: Calculation of Approximate Surface Area from  $\diamond$ Weight in Children with Normal Physique 436

- ✤ Appendix VII: Mean Urine Output at Different Ages 437