

**PPAG-U Pediatric PharmPrep Advanced Guide:
A BCPPS Exam Review Home Study Program**



BCPPS Advanced Guide (Home Review)

Lesson Table of Contents

1. Domain 1
 - a. Cardiology
 - i. Arrhythmias
 - ii. Congenital Heart Disease and Low Cardiac Output Syndrome
 - b. Pediatric Critical Care
 - i. Acetaminophen Overdose
 - ii. Acid-Base Management
 - iii. Acute Respiratory Distress Syndrome (ARDS)
 - iv. Closed Head Injury
 - v. DI, SIADH, CSW
 - vi. Extracorporeal Membrane Oxygenation (ECMO)
 - vii. Hepatic Dysfunction and Failure
 - viii. Pediatric Advanced Life Support (PALS) and Post-Cardiac Arrest Syndrome
 - ix. Sepsis and Septic Shock
 - c. Endocrinology
 - i. Pediatric Endocrinology
 - ii. Pediatric Diabetes
 - iii. Pediatric Obesity
 - iv. Short Stature
 - v. Pediatric Thyroid Disorders
 - d. General Medicine
 - i. Constipation
 - ii. Dehydration and Fluid and Electrolytes
 - iii. Developmental Changes
 - iv. Gastroenteritis
 - v. Gastroesophageal reflux disease (GERD)
 - vi. Henoch–Schönlein purpura (HSP)
 - vii. Hyperbilirubinemia
 - viii. Hyperlipidemia
 - ix. Inflammatory bowel disease (IBD)
 - x. Kawasaki
 - xi. Preeclampsia and Eclampsia
 - xii. Preterm Labor
 - xiii. Systemic lupus erythematosus (SLE)
 - xiv. Abdominal Pain
 - xv. Diabetes in Pregnancy
 - xvi. Induction of Labor
 - xvii. Premature rupture of membranes (PROM)
 - xviii. Prenatal Care
 - xix. Nausea and Vomiting
 - xx. Juvenile idiopathic arthritis (JIA)
 - xxi. Pregnancy and Lactation
 - e. Pharmacogenomics
 - i. Genomic Variation and Drug Response
 - ii. Identifying Candidate Gene-Response Associations
 - iii. Examples of Gene-Response Associations Relevant to Pediatrics
 - iv. Incorporating Pharmacogenomics into Pediatric Pharmacotherapy
 - f. Hematology/Oncology
 - i. Brain Tumours
 - ii. Chemotherapy
 - iii. Hemophilia
 - iv. Immune Thrombocytopenia (ITP)
 - v. Leukemias
 - vi. Lymphomas
 - vii. Neuroblastoma
 - viii. Oncologic
 - ix. Retinoblastoma
 - x. Sarcomas
 - xi. SCD
 - xii. Supportive care
 - xiii. Wilms Tumor
 - g. Infectious Disease
 - i. AOM (Acute Otitis Media)
 - ii. CAP (Community Acquired Pneumonia)
 - iii. CLABSI (Central Line Associated Blood Stream Infection)
 - iv. Conjunctivitis
 - v. Encephalitis
 - vi. Epiglottitis
 - vii. Immunizations
 - viii. Meningitis

- ix. Pertussis
- x. Cellulitis
- xi. HIV Prenatal Prevention
- xii. Impetigo
- xiii. OI (Osteogenesis Imperfecta)
- xiv. Orbital Cellulitis
- xv. HIV
- xvi. Sinusitis
- xvii. Tick
- h. Nephrology
 - i. Acute Interstitial Nephritis
 - ii. Drug Management in Renal Impairment
 - iii. Glomerulonephritis
 - iv. Nephrotic Syndrome
 - v. Phosphate Binding Agents
 - vi. Renal Tubular Acidosis
- i. Neurology (coming soon!)
- j. NICU
 - i. NICU-Cardiology
 - 1. Critical Congenital Heart Disease (CHD)
 - 2. Hypotension/Hyoperfusion In The Preterm Neonate
 - 3. Patent Ductus Arteriosus
 - 4. Persistent Pulmonary Hypertension Of The Newborn
 - ii. NICU-Infections
 - 1. Early Onset Neonatal Sepsis (EONS)
 - 2. Late-Onset Neonatal Sepsis (LONS)
 - 3. Meningitis
 - 4. Necrotizing Enterocolitis (NEC)
 - 5. Ophthalmia Neonatorum (ON)
 - 6. Common Approaches To Infectious Diseases In The NICU
 - 7. Torch Infections In The Newborn
 - iii. NICU-Neurology
 - 1. Hypoxic Ischemic Encephalopathy
 - 2. Intraventricular Hemorrhage
 - 3. Neonatal Abstinence Syndrome
 - 4. Neonatal Seizures
 - 5. Sedation And Analgesia In The Preterm Infant
 - iv. NICU-Nutrition
 - 1. Meconium Plug Syndrome
 - 2. Anemia of Prematurity (AOP)
 - 3. Neonatal Nutrition
 - v. NICU-Pulmonary
 - 1. Apnea of Prematurity (AOP)
 - 2. Bronchopulmonary Dysplasia (BPD)
 - 3. Respiratory Distress Syndrome (RDS)
 - 4. Retinopathy of Prematurity (ROP)
- k. Nutrition
 - i. Nutrition assessment/growth
 - ii. Fluid and Energy Requirements
 - iii. Laboratory studies of Nutritional Status
 - iv. Enteral/Oral nutrition
 - v. Micronutrients: Special Nutritional Considerations
 - vi. Parenteral Nutrition
 - vii. PN Administration/Delivery
 - viii. PN Monitoring
 - ix. Complications
 - x. Home Care Considerations
 - xi. PN Compounding Issues
 - xii. Parenteral Nutrition: age based considerations
 - xiii. Special Diets and Nutritional Considerations in Special Pediatric Patient Populations
 - xiv. Nutritional Considerations in Pediatric Metabolic Conditions
 - xv. Refeeding Syndrome
 - xvi. Celiac Disease
- l. Pulmonology
 - i. Asthma
 - ii. Croup
 - iii. Cystic Fibrosis
 - iv. Pulmonary Development
- m. Psychiatry
 - i. Pediatric ASD
 - ii. Pediatric Depression
 - iii. Pediatric Enuresis
 - iv. Pediatric Substance Use Disorders
 - v. Attention-Deficit Hyperactivity Disorder

- a. Pharmacy Management
 - b. Basics for Pediatric Pharmacy Practice
 - c. Medication Safety and the Medication Use System
 - d. Policy Development and Formulary Management
 - e. Clinical Pharmacy Practice Metrics/Quality Indicators
 - f. Pediatric Drug Delivery Systems
 - g. Pediatric Extemporaneous Formulations
 - h. Health-Care Technology and Innovation
 - i. Investigational Studies in Pediatric Patients
3. Domain 3
- a. Information Management
 - b. Children in Clinical Research
 - c. Patient Education and Communication
 - d. Cognitive Developmental Stages
 - e. Patient Education Principles
 - f. Health Literacy Considerations
 - g. Cultural Competency
 - h. Methods for Impacting Treatment Adhering
4. Domain 4 **(YES! We cover it here!)**
- a. Public Health/Advocacy
 - b. Pharma Regulations related to pediatric formulations
 - c. Vaccine Advocacy
 - d. Poison Prevention
 - e. Disaster Preparedness
 - f. Professional Involvement