



CONTENT OUTLINE FOR PHARMACOLOGY PEDIATRIC UPDATES

The goal of these learning activities is to increase knowledge and enhance clinical practice related to pharmacological agents used in the care of children of all ages.

- Each module contains specific learning outcomes and objectives, ranges between 35 and 40 questions, and has a minimum of 2-year availability to purchase.
- Topics are selected from data collected in annual needs assessment surveys.

Pharmacology: Current Concepts	Pharmacology Specialty Content Topics
These modules are published annually and include content which reflects prevention and treatment of common conditions. They are developed from the most current and relevant literature with a goal of providing a range of clinical resources and diversity of diagnoses.	These modules are published annually and include content which reflects pharmacological agents for select problems which generally span outpatient settings. Topics are determined based on data from needs assessment surveys. They are developed using the most current and relevant literature within a problem focus.

Content for both Current Concepts and Specialty modules will include (but not be limited to):

Prescriber Role	Education	Monitoring	Pharmacology
<ul style="list-style-type: none"> A. Medication selection B. Specification of dose and formulation C. Specification of schedule & duration D. Legal/ethical considerations E. Medication safety and contraindications F. Economic cost 	<ul style="list-style-type: none"> A. Education for patient and family: <ul style="list-style-type: none"> - Medication purpose - Administration - Responses to therapy and adverse events B. Sources of medications: <ul style="list-style-type: none"> - Prescribed - Over the counter - Supplements, nutritionals, herbals 	<ul style="list-style-type: none"> A. Efficacy B. Adverse effects C. Interactions: <ul style="list-style-type: none"> - Drug-drug - Drug-disease - Drug-food - Drug-lab D. History and physical E. Lab and diagnostic assessments F. Special Conditions: <ul style="list-style-type: none"> - Dependency - Tolerance - Withdrawal - Misuse - Self-treatment 	<ul style="list-style-type: none"> A. Pharmacodynamics: <ul style="list-style-type: none"> - Concentration and individual response - Potency and efficacy - Therapeutic index B. Pharmacokinetics: <ul style="list-style-type: none"> - Absorption - Distribution - Metabolism - Elimination C. Pharmacogenomics/genetics
<p>Patient Variables: The following are integrated within all major concepts of the PNP role, as applicable:</p> <ul style="list-style-type: none"> • Developmental pharmacology • Gender • Genetics • Race/Ethnicity 			
<p>Categories: All pharmacology modules will cover the spectrum of body system conditions as well as:</p> <ul style="list-style-type: none"> • Electrolyte and nutritional conditions • Ingestions and environmental exposures • Complementary and integrative health 			