

## Pharmacology Principles - Study Guide Test 3

### Nursing Process for Medication Administration

- Assessment-gather data
- Diagnosis-draw a conclusion from data
- Planning-formulate care plan
- Implementation- activate care plan
- Evaluation- determine if plan was effective
  - Therapeutic effectiveness
  - Timing: PO vs IV- IV fastest route, PO slowest route

### Dosage Calculations

Adverse effect- severe, unintended medication reactions

- Some unintended secondary effects are mild, predictable, and may be tolerated as part of the therapy, these are often referred to as side effects. Adverse reactions can be severe and may require discontinuation of the drug. depending on whether the benefit of the drug outweighs the harm from the adverse effect. Serious adverse effects considered adverse events or sentinel events must be documented according to policy and reported to a national database.

Allergic Reaction- unpredictable immune response to med; body thinks drug is foreign substance and forms antibodies against the drug. symptoms: rash, urticaria, fever, diarrhea, nausea, and vomiting. Anaphylaxis is life threatening and results in respiratory distress, sudden severe bronchospasm, and cardiovascular collapse

Anaphylaxis- serious allergic reaction, throat begins to swell etc...

Brand name- the name brand created by the actual company and copyrighted; also called a trade name; selected by the pharmaceutical company that sells the drug and is protected by trademark

Control Substance Act- 1970- defined drug abuse and classified drugs as to their abuse potential- strict control over distribution, storage and use of these drugs-DEA got control over coding and enforcing coding (FDA helped code)- schedule 1&2 high abuse potential drugs! The prescription, distribution, storage, and use of controlled substance drugs are closely monitored by the DEA to decrease substance abuse of prescribed medications. Each prescriber has a DEA number which allows the DEA to monitor prescription patterns and possible abuse

DEA (drug enforcement agency) and considerations for nurse administering narcotics

Drug intolerance- inability to tolerate the adverse effects of a medicine (generally at the therapeutic drug level)

Drug to drug interaction- occurs any time two or more drugs are taken together, can occur any time during ADME

FDA- food and drug administration; regulates the testing and approval of all drugs in the US. To be approved for marketing, a drug must pass through animal studies, testing on healthy humans, selected testing on people with the disease being treated, and then broad testing on people with the disease being treated.

First pass effect- liver metabolizes drugs 1st- single most important site for biotransformation; drugs given orally are carried directly to the liver after absorption where they may be largely inactivated by liver enzymes before they can enter the general circulation. oral drugs are frequently given in higher doses because of this early breakdown

Generic name- the name by which the drug is identified in official publications, such as the US Pharmacopeia- assigned by manufacturer-not copyrighted; identifies the drug's active ingredient. generic name often derived from the chemical name

Half-life- time it takes for half of the drug dose to leave the body- affected by ADME; time it takes for the amount of drug in the body to decrease to one half of the peak level it previously achieved.

Medication rights- right patient, right drug, right dose, right route, right time, right documentation, right assessment, right evaluation, right education, right response, right to refuse

Medication routes- oral, topical, transdermal, inhalation, sublingual, intrathecal (CSF), buccal, rectal, vaginal, enteral (via GI tract)

- parenteral: administered by needle. SubQ, intradermal, intramuscular, intravenous. other less common ones: intrathecal/intraspinal, epidural, intraarticular (joint), intra-arterial, intracardiac, interosseous (into bone marrow)

Pharmacodynamics- science of dealing with interactions between living organisms and foreign chemicals-behavior of med at cellular level to produce a biologic response

# Mechanical Principles Test Study Guide

**Anthony S. Fauci**



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