determining the proper dosage amount of a drug in a particular formulation involves understanding at least the pharmacokinetics of the drug and dosage form, pharmacodynamics of the drug, drug-receptor interaction, functional state, placebo effects, physiological variables, pathological factors, genetic factors, interaction with other drugs, development of tolerance, rate and extent of absorption, body size and composition, distribution in body fluids, binding in plasma and tissues, rate of elimination, patient compliance, medication errors, and drug toxicity.



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