

Pharmacology

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Permeation: Ionization

- In a nutshell, for weak acids and weak bases:
 - Ionized = water soluble
 - Nonionized = lipid soluble

***Acids: aspirin, loop and thiazide diuretics**

***Bases: local anesthetics, amphetamines, PCP**

Ionization and Clearance Vs. pH Deviation From pKa

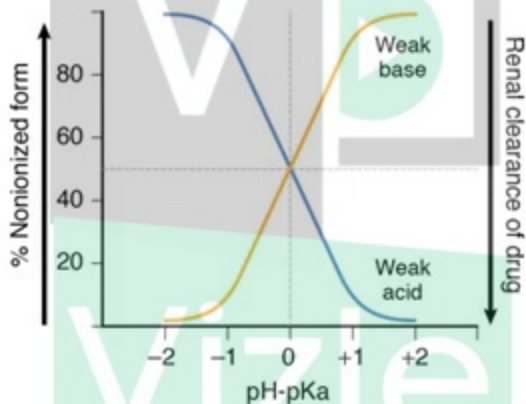


Figure I-1-2. Degree of Ionization and Clearance Versus pH Deviation from pKa

Renal Clearance of Drug

Good size filter;
poor charge filter

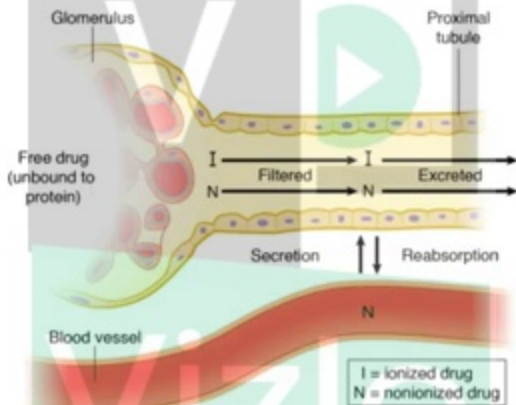
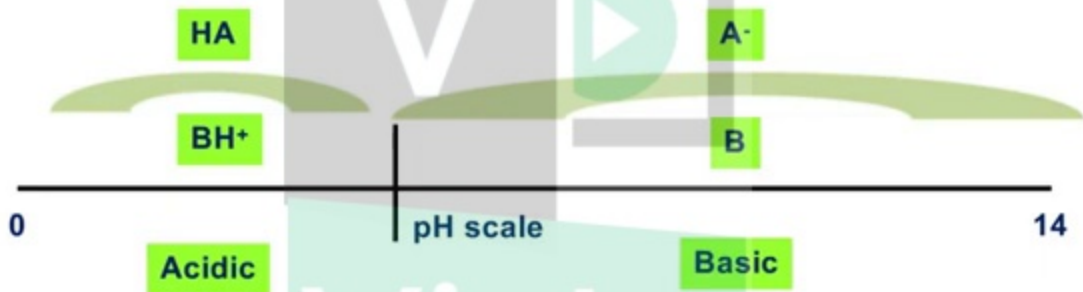


Figure I-1-3. Renal Clearance of Drug

Ionization Example

Urine pH: 5-8



Ex: pKa = 5

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