

Drug: chemical that affect any living process.

↓
they modified functions and never creat functions



Pharmacy: science of the producing drugs (σισικόλα)

prescription: written direction (instructions) to preparing drug

* therapeutic effect: primary effect that the drug is prescribed (άγρια αίσθητη)

UNWANTED effects of drugs

adverse effect: unwanted effect during therapy

Drug Toxicity: Harmfull effect caused by overdose

Drug - Drug interaction: when administration of one drug affect another drug
and remember when any two drugs have the same transporter it will affect the bound and free shape of the second drug ~~it's better use in single dose~~

* Some definition exist largely in Hospitals

	misuse	Abuse
mistake in	dose, duration frequency and invalid indication	Continuity or Periodically exist in NS drugs

* Pharmacodynamics: is what the drug does to the body as biochemically and physiology as effect on receptors, adverse effect

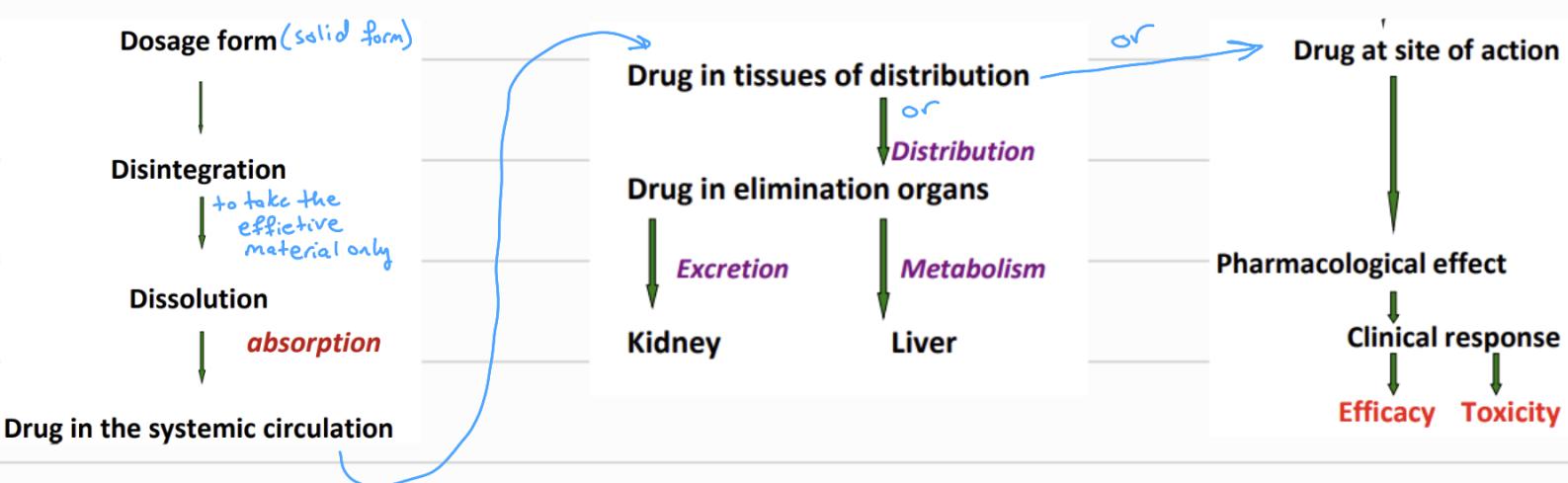
* Pharmacokinetics: what the body does to drug as absorption, distribution, ...

* Drug Story after taking it → ① absorption from intestine to circulation

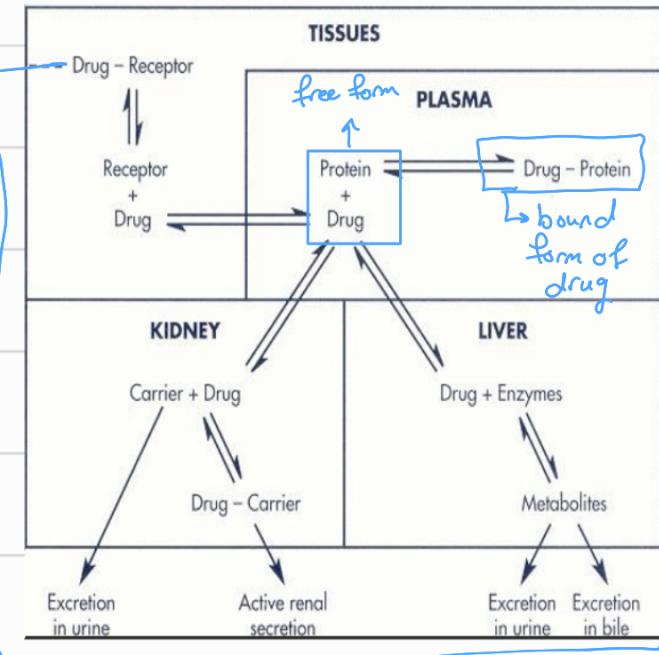
② distribution by the blood to all Body parts (tissues)

③ Bio transforming (this word indicates of metabolism) By enzymes

④ Excretions: to get rid out of it outside the Body



Clinical Response



Drug Source

Natural Source

Plant
include Alkaloids

Compounds contain Nitrogen group so give Alkaline in aqueous solution As Morphine, Cocaine

Atropine, Quinine

microbes:
which is Antibiotics isolated from microorganism as penicillium and Streptomycin
 Antibiotics داروا بیوکسیکالی (Antibiotics)

Synthetic drugs:

* Synthesis new compound as Aspirin barbiturates and local Anesthetics
↳ was the first

* modified naturally:

Semi Synthetic derivatives
مثيلات طبيعية مثل

As morphine derivative
OxyCodone



(كي ماده المولينجولار)

شو نوع؟ أتوقع الكواب

Semi Synthetic
درجه عاليه أتوقع