

- Vd depends on the following factors:
  - ✓ Blood flow rate in different tissue
  - ✓ Lipid solubility of drug
  - ✓ Partition coefficient of drug and different types of tissues
  - ✓ pH
  - ✓ Binding to biological material.
- Vd is often proportional to body weight. In obesity Vd is lower than expected from the body weight.
- In edema, Vd is larger than expected for the body weight.

$$V_d = \frac{CL}{K_{el}}$$

$$CL = \frac{Dose}{AUC}$$

$$V_d = \frac{Dose}{K_{el} \cdot AUC}$$

$$V_d = \frac{Dose \cdot f(oral)}{K_{el} \cdot AUC}$$

Other formulae for Vd

### Clinical significance

- Hemodialysis in drug poisoning: Drugs with low Vd can be easily removed by hemodialysis, e.g. Salicylates
- Calculation of loading dose (LD)

$$LD = V_d \times CL \text{ (IV Route)} \quad CL = \text{clearance}$$

$$LD = \frac{V_d \times CL \text{ (oral route)}}{f} \quad f = \text{bioavailability.}$$

# Guide To Pharmacokinetic Calculation

**DJ Losen**



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