

Basic Pharmacy Parameters

CL (Clearance) CL is the amount of drug per unit time that is excreted unchanged from body. For example, if liver blood flow is 100 L/H and CL is 50 L/h, then that means half of the blood passing through the liver is cleared of blood.

Vd (Volume of Distribution) Vd is a parameter referring to how much drug is distributed within tissue versus plasma. If the Vd is high, there is more drug in plasma than tissue, if it is low, there is more within tissue. Used for calculating loading dose.

F (Bioavailability)

t_{1/2} (Half-life)

τ (Tau) (Dosing interval)

AUC (Area under time concentration curve)

AUC 0-24

C_p (plasma concentration)

k_e

k_a

C_{ss,ave}

MDR (Maintenance Dose Rate)

Important relationships

Basic Formulas

$$CL = DR/C_{ss}$$

$$CL = \text{Dose}/AUC(N)$$

$$ER = CL * C_p$$

$$V_d = F_u/F_{ut} * V_t$$

$$V_d = A/C$$

$$\text{Loading dose} = V * \text{Target plasma concentration}$$



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Not published yet.

Last updated 30th April, 2023.

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