



# PHARMACOKINETIC CALCULATIONS

## DOSE ADMINISTRATION

- **Loading Dose**
  - ✓ Used to quickly achieve a high plasma concentration.
- **Volume of Distribution**
  - ✓ Volume of tissue into which a drug distributes to reach a target concentration.
- **Maintenance Dose**
  - ✓ Dose required to maintain a target plasma concentration.
- **CLEARANCE**
  - ✓ Amount of blood cleared of drug per unit of time.



## Loading Dose

$$\text{Loading dose} = \frac{V_d \times TC}{F}$$

DISTRIBUTION X CONCENTRATION

$$\text{Mass (mg)} = \frac{\text{Volume (L)} \times \frac{\text{Mass (mg)}}{\text{Blood (L)}}}{\text{Percentage (\%)}}$$

$$\text{Mass (mg)} = \frac{50L' \times 5 \text{ mg/L'}}{0.50}$$

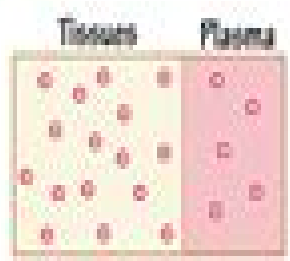
500 mg

## Volume of Distribution

$$\text{Dose} = \frac{V_d \times TC}{F}$$

$$\frac{F \times \text{Dose}}{TC} = V_d$$

$$\frac{0.50 \times 500 \text{ mg}}{5 \text{ mg/L}} = 50L$$



- |  |   |
|--|---|
| <p>↑ <math>V_d</math></p> <ul style="list-style-type: none"> <li>Small size</li> <li>Lipophilic</li> <li>Tissue protein bound</li> </ul> | <p>↓ <math>V_d</math></p> <ul style="list-style-type: none"> <li>Large size</li> <li>Charged</li> <li>Plasma protein bound</li> </ul> |
|--|---|



## Maintenance Dose

$$\text{Maintenance dose} = \frac{(CL \times TC)}{F} \times \tau$$

DOSING RATE X DOSING INTERVAL

$$\frac{\text{Mass (mg)}}{\text{Time (h)}} = \frac{\frac{\text{Blood (L)}}{\text{Time (h)}} \times \frac{\text{Mass (mg)}}{\text{Blood (L)}}}{\text{Percentage (\%)}} \times \text{Time (h)}$$

$$\frac{\text{Mass (mg)}}{\text{Time (h)}} = \frac{2L/h \times 5 \text{ mg/L'}}{0.50}$$

20 mg/h x 12h = 240 mg q 12 hours

## Clearance

$$\text{Dose} = \frac{(CL \times TC)}{F} \times \tau$$

$$\frac{\text{Dose}}{\tau \times C} = CL$$

$$\frac{240 \text{ mg}}{12h \times 5 \text{ mg/L}} = 4L/h$$

## Abbreviations

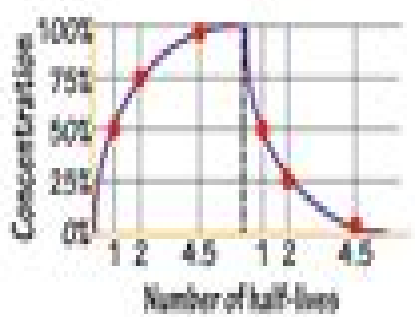
- $V_d$  - Volume of Distribution
- $TC$  - Target Plasma Concentration
- $F$  - Bioavailability
- $CL$  - Clearance
- $\tau$  - Dosing Interval

## Half-Life

$$T_{1/2} = \frac{0.69 \times V_d}{CL}$$

TIME FOR DRUG TO REDUCE BY 50%

$$8.63h = \frac{0.69 \times 50L'}{4L/h}$$



# Pharmacology Calculations Workbooks

**Lei Shi**



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