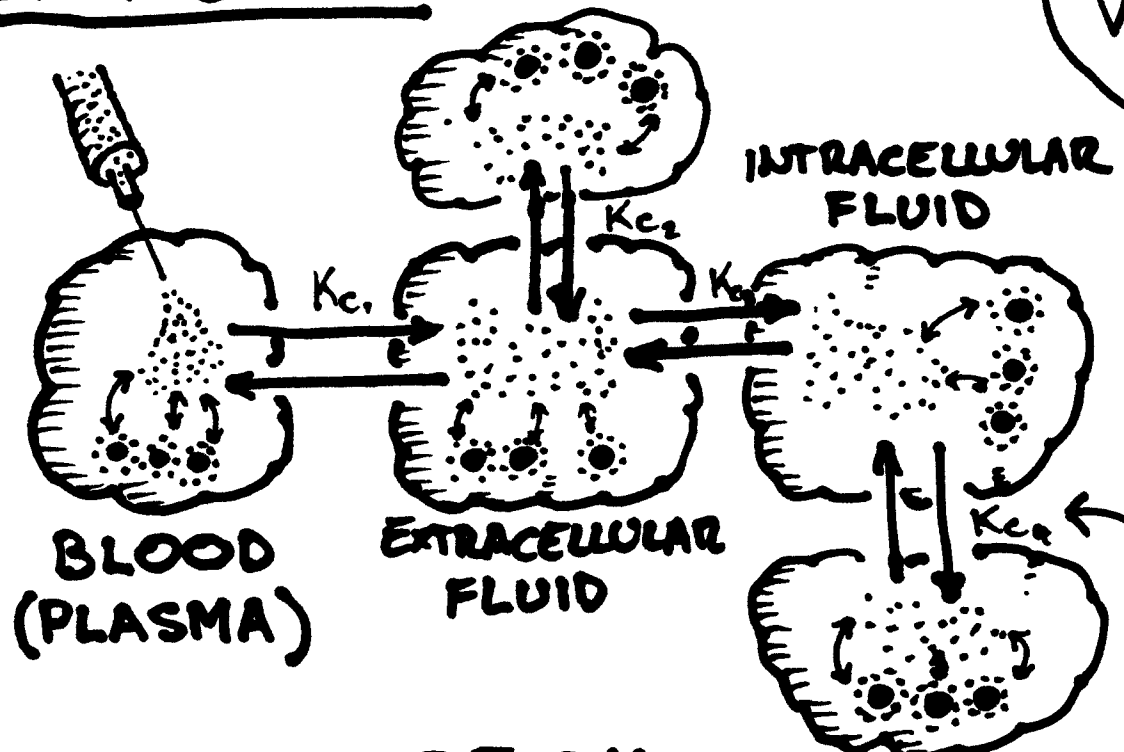


# DISTRIBUTION FAT



# VOLUME OF DISTRIBUTION ( $V_D$ )

$$V_D = \frac{\text{TOTAL AMOUNT OF DRUG IN BODY}}{\text{CONC. OF DRUG IN PLASMA}}$$

**[E.G.]**  $V_{D \text{ MORPHINE}} = 5 \text{ L/kg BW.}$

Plasma  $[ ] = 3/70 \text{ mg/L}$

Dose =  $V_D \times \text{Plasma } [ ]$

=  $5 \text{ L/kg BW} \times 3/70 \text{ mg/L}$

=  $15/70 \text{ mg/kg BW}$

$\therefore$  70kg person

Need Dose = 15mg

EQUILIBRIUM CONSTANT

$K_c$  IS DEPENDENT ON:

- PERMEABILITY OF BARRIERS
- PH OF COMPARTMENTS
- BINDING CAPACITY

OTHER

- CSF
- PERITONEUM
- SYNOVIAL FLUID
- FETUS

HANDWRITTEN TUTORIALS.COM