

# POSOLOGY (Related to Dosage Calculation)

POSO + LOGY

↓                      ↓  
How                      To study  
Much

[DEPTH OF BIOLOGY]

Branch of Medicine concerned with the determination of appropriate dose of Drug.

## Factor Affecting Posology ⇒

- Age → child / Adult / old [DEPTH OF BIOLOGY]
- Sex → Female Are More sensitive
- Body weight →
- Environmental Factor ⇒ Day (↓)  
Night (↑) [DEPTH OF BIOLOGY]
- Time of Administration ⇒
- Route of Administration ⇒
- Additive effect ⇒ (1+1) drug  
(11 Time of More)



- Synergism  $\Rightarrow$  2 Drug taken  
 [one Drug (1) is Performance of another drug]

[DEPTH OF BIOLOGY]

- Antagonism  $\Rightarrow$  (Opp. Action 2 drug to)

- Idiosyncrasy  $\Rightarrow$  [Allergic Reaction]

$\hookrightarrow$  Drug Normal Action  $\rightarrow$  other Action  $\checkmark$

- Tolerance  $\Rightarrow$  Eg  $\rightarrow$  Smoke Tolerance  
 (Nicotine  $\uparrow\uparrow$ )

- Tachyphylaxis  $\Rightarrow$  Short period time of  
 [Drug  $\uparrow\uparrow\uparrow$ ]  
 lead to Blocking in Receptor

- Metabolic Disturbance  $\Rightarrow$  Eg  $\rightarrow$  electrolyte/  
 Acid-Base  
 Imbalance

[DEPTH OF BIOLOGY]

- Accumulation  $\Rightarrow$  Body of some drug accumulate

$\downarrow$   $\hookrightarrow$  Liver Kidney (Mal Function)  
 Not excrete  $\swarrow$

- Emotional Factor  $\Rightarrow$

[DEPTH OF BIOLOGY]

$\Rightarrow$  PLACEBO NATURE