

PHARMACOLOGY

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POSOLOGY

DEFINITION: it is a branch of medicine dealing with doses.

POSO means “dose” and LOGY means “science”

t in Kg/75 * adult dose

*CALCULATION OF DOSAGE FORMS:

- ✘ Youngs formula: $\frac{\text{Age in years}}{\text{Age in years} + 12}$
- ✘ Fried rule: $\frac{\text{Age in months}}{150} * \text{Adult dose}$
- ✘ Dilling rule: $\frac{\text{Age in years}}{20} * \text{Adult dose}$
- ✘ Clark's rule: $\frac{\text{weigh body surface area(B.S.A) of child(m}^2\text{)}}{1.73} * \text{Adult dose}$

v. COWLINGS FORMULA:

Dose for child = Age in next birthday/24 * adult
dose

✘ FACTORS AFFECTING POSOLOGY ARE:

- Age
- Route of administration
- Genetic makeup
- Acquired tolerance

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- Idiosyncrasy
 - Rate of elimination
 - formulation
 - Drug interactions
 - Environmental conditions

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- Sex
 - Body weight
 - Presence of disease
 - Multiple drug therapy
 - Acquired tolerance