

DRUG DOSE CALCULATOR

(Revised: December 2017)



DOSE	CALCULATION	DOSE	CALCULATION
50mg/kg	$Dose = weight \times 50$	0.5mg/kg 0.5ml/kg	$Dose = \frac{weight}{2}$
10mg/kg	$Dose = weight \times 10$	0.25mg/kg	$Dose = \frac{weight}{4}$
5mg/kg	$Dose = weight \times 5$	0.1mg/kg	$Dose = \frac{weight}{10}$
4mg/kg	$Dose = weight \times 4$	0.05mg/kg	$Dose = \frac{weight}{20}$
1.5mg/kg	$Dose = weight \times 1.5$	0.01mg/kg	$Dose = \frac{weight}{100}$
1mg/kg 1mMol/kg	$Dose = \frac{weight}{1}$		

VOLUME REQUIRED

$$\frac{\text{dose required}}{\text{dose at hand}} \times \frac{\text{volume (ml)}}{1} =$$

e.g. hydrocortisone for a 20kg child

$$20\text{kg} \times 4\text{mg/kg} = 80\text{mg}$$

$$\frac{80}{100} \times \frac{2}{1} = 1.6\text{ml}$$

DROPS PER MINUTE

$$\frac{\text{volume required to be infused}}{\text{time to be infused in minutes}} \times \frac{\text{drip rate factor}}{1} =$$

e.g. 300ml of normal saline to be given over one hour, via a normal giving set

$$\frac{300}{60} \times \frac{20}{1} = 100 \text{ drops per minute}$$