

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

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