

# Calculating Dosages

All medications are dosed by milligrams per kilogram of body weight, so you must calculate your animals weight in kilograms. To convert grams to kilograms, multiply the weight in grams x .001

ex:  $300 \times .001 = .300$  (this moves the decimal to the left 3 places)

Now, take your weight in kilograms and multiply x the dosage in milligrams per kilogram for the specific kind of medication being given. \*Note: every medication has a different recommended dosage and will come in a different strength or concentration.

ex: Toltrazuril dosage is 20 mg/kg so you take  $.300 \times 20 \text{ mg/kg} = 6 \text{ mg}$

This is how much medication in milligrams your animal needs as one total dose if it weighs .3 kg, so now you have to figure out how much of the medication contains that amount.

Now you take the strength or concentration of the medication and divide it into the dose in milligrams (mg), be careful NOT to be confused by percentages.

A concentration or strength of 5% contains 50 mg per mL, so the concentration or strength is 50 not 5.

Now take the weight in kg ( $.3 \times 20 \text{ mg/kg} = 6$ ) then divide by concentration of 50 ( $6 \div 50 \text{ mg/mL} = .12 \text{ cc/mL}$ )

Formula in excel (((grams x .001) x dose in mg) / mg/mL) (((300g x .001 = .3) x 20 = 6) / 50 = .12)

If you are unsure, please double check your math by using the dosage calculator at [www.beautifuldragons.com](http://www.beautifuldragons.com)

## Recommended Dosages for Medications

Toltrazuril - 20 mg/kg PO (orally) repeat in 1 week

Fenbendazole (Panacur) - 50-100 mg/kg PO (orally) repeat in 1-2 weeks 1-3x

Sulfadimethoxine (Albon) - 50 mg/kg PO (orally) q 24h (daily) 3 days, repeat in 3 days

Metronidazole (Flagyl) - 20-150 mg/kg PO (orally) repeat in 2 weeks / flagellates 25-50 mg/kg repeat in 3 days

Enrofloxacin (Baytril) - 5 mg/kg (10 mg/kg resistant) q 24h 10 days

Cefazolin Injectable - 20 mg/kg IM p 72h (every 3 days) 15-30 days

Ceftazidime Injectable - 20 mg/kg SQ/IM p 72h (every 3 days) 15-30 days

Vitamin B Complex - .5 mg/kg SQ/IM repeat in 3 weeks

Calcium Gluconate Injectable - 75 mg/kg IM q 6h (300 mg/kg divided into 3-4 equal doses over 24 hours)

Calcium Glubionate - 1 mL/kg PO (orally) q 24h

Meloxicam - 0.2 - 0.4 mg/kg PO (orally) p 24h (daily) 5 days (do not give when renal disease is present)

Tramadol - 1-2 mg/kg PO (orally) p 24-48h

## Common Concentrations

Toltrazuril 5% or 50mg/mL

Panacur 10% or 100mg/mL

Albon 5% or 50mg/mL

## Weight Conversion

1 kg = 1000 gm

1 g = .1 kg

1 g = 1000 mg

1 mg = .1 g

1 g is 1/1000 of a kg

1 mg is 1/1000 of a g

## Concentrations

1000 mg/mL = 100%

500 mg/mL = 50%

200 mg/mL = 20%

100 mg/mL = 10%

50 mg/mL = 5%

25 mg/mL = 2.5%

15 mg/mL = 1.5%

10 mg/mL = 1%