

ALLOMETRIC SCALING WORKSHEET

To calculate the Universal MEC dose from published dosages in the literature

REQUIRED DATA

Drug: _____

Source: _____

Model Animal _____ Body Weight (kg) _____ Dose _____

Model Animal MEC = $K \times BW_{\text{kg}}^{0.75} =$ _____ Single Dose _____ mg
(mg/kg x kg)

UNIVERSAL MEC DOSE CALCULATION

Divide known single dose (mg) by Model Animal MEC

UNIVERSAL MEC DOSE = _____

FREQUENCY COEFFICIENT CALCULATION

Divide frequency (per 24h) by [Model Animal MEC/Bodyweight(kg)]

FREQUENCY COEFFICIENT = _____

To calculate a patient's dose:

- 1) Multiply patient's MEC by Universal MEC dose = mg/treatment
- 2) Multiply patient's SMEC (MEC/body weight in kg) by Frequency coefficient = # times/day