

$$\text{Volume of drug to be used} = \frac{\text{dose} * \text{weight}}{\text{concentration}}$$

For an animal estimated to be 500kg,

| Drug                              | Use                          | Dose/mg/kg                        | Concentration/mg/ml | Volume calculations                         |
|-----------------------------------|------------------------------|-----------------------------------|---------------------|---|
| Xylazine<br>(in conjunction with) | Sedation                     | 0.025                             | 20                  | $\frac{0.025 * 500}{20} = 0.625 \text{ ml}$ |
| Ketamine                          |                              | 0.05                              | 100                 | $\frac{0.05 * 500}{100} = 0.25 \text{ ml}$  |
| Lidocaine                         | Local/regional anesthesia    | 0.2                               | 20                  | $\frac{0.02 * 500}{20} = 5 \text{ ml}$      |
| Tolazoline                        | Reversal of xylazine effects | 0.1<br>(4 times dose of xylazine) | 100                 | $\frac{0.1 * 500}{100} = 0.5 \text{ ml}$    |