**Epinephrine (1mg/ml)**

Epinephrine was made available in the even the any of the animals experience anaphylaxis due to antibiotics (penicillin-streptomycin).

**ONSET AND DURATION:**

* Onset = 1-2 min (IV), 5-10mins (IM/SC). Duration = 5-10 mins.

**DOSE:**

* 0.2mg/kg IM, IV or SC

**USES:**

* Anaphylaxis or cardiac resuscitation.
* Added to local anesthetics to retard systemic absorption and prolong effect.

**CONTRAINDICATIONS:**

* Narrow-angled glaucoma, during labor or coronary insufficiency.
* Shock due to non-anaphylactoid causes.
* General anesthesia with halogens or cyclopropane.
* Where vasopressors are contraindicated
* Never inject with local anesthetics into small appendages (e.g. toes, ears etc) because of the chance of necrosis and sloughing.
* Use with caution in hypovolemia cases ; not a substitute for fluid replacement therapy.

**OVERDOSAGE/TOXICITY:**

* Sharp rise in systolic, diastolic and venous blood pressure, cardiac arrhythmia, pulmonary edema, dyspnea, vomiting.
* Cerebral hemorrhage, renal failure, metabolic acidosis and cold skin.
* Treatment for toxicity is mainly supportive due to the short duration of the drug.
* Alpha (e.g. Phentolamine) or beta (e.g. Propanolol) adrenergic blockers can be used to treat severe hypertension and cardiac arrhythmias.

**ADVERSE REACTIONS:**

* Can induce feeling of fear or anxiety, tremor or excitability.
* Hyperuricemia and lactic acidosis.
* Repeat injections can cause necrosis at injection site.

**WITHDRAWAL:**

An endogenous substance with rapid metabolism so no withdrawal period required.