



Sun States: Blood Banks for Animals
2927 NE 6 Ave
Wilton Manors FL 33334
Phone 954 630 2231 Fax 954 630 3120

Pre-Transfusion Treatment

Diphenhydramine (Benadryl[®]): 1 mg/lb.

Dosage Guidelines

PRBCs: Packed red blood cells are dosed based using the following formula:

$$mL = \frac{WT \times 70 \times (PCV_{desired} - PCV_{patient})}{PCV_{prbc}}$$

mL = mL to transfuse

WT = weight of patient (kg)

PCV_{desired} = Target PCV

PCV_{patient} = Patient's current PCV

PCV_{prbc} = PCV of PRBCs

The PCV of the PRBCs can be measured directly, or assume PCV=60% (for Optisol[®] / Adsol[®]) or PCV=80% (for CPDA-1) as supplied by **Sun States**. If you are rehydrating with saline, add 150 mL 0.9% NS and assume PCV=50%.

USE ONLY 0.9% NORMAL SALINE TO REHYDRATE PRBCs. Dextrose or Lactated Ringer's solutions will cause hemolysis of PRBCs.

FFP, Plasma, Cryosupernatant:

6-12 mL/kg. Severe deficits of immunoglobulin may require up to 20 mL/kg/dose over 2-4 hours.

Cryoprecipitate: 1-2 mL/kg. Severe coagulopathies may require up to 5 mL/kg/dose over 1 hour. In severe bleeding episodes repeat administration every 12 hours as needed to maintain hemostasis.