Instructions for the Small Animal Double Syringe Collection Set

The ABB® Small Animal Blood Collection System provides a closed system for the collection and storage of 100 mls or less of whole blood or components. It is ideal for use in cats and other small animals. The Double Syringe Collection Set consists of a 60ml syringe, 19 gauge butterfly catheter, a multipurpose small animal blood donor bag with transfer bag and a three way stop cock. **This System does not contain Anticoagulant**

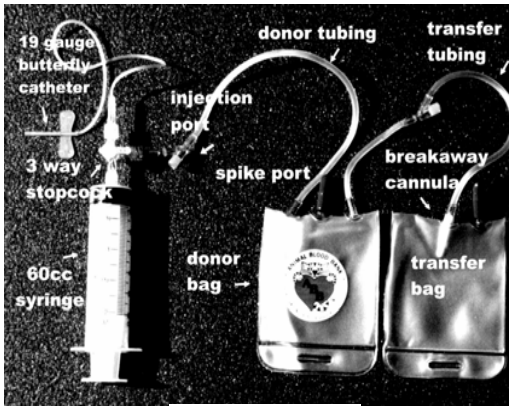

Figure 1

How to Collect 50 ml of whole blood.

You will need the following items:

- ABB® Small Animal Double Syringe Collection Set
- Anticoagulant (ABB® 50ml multidose vial CPDA-1 recommended).
- 12cc Syringe with 20 ga. needle for withdrawal of anticoagulant.
- Plastic hemostat or guarded hemostat (protective cover over hemostat teeth).
- Sealing clips (optional)
- Household or stripping-sealing pliers (optional).

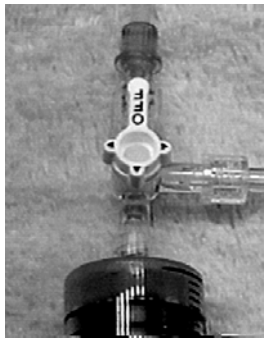

Figure 2

Preparation:

- Peel back tyvek pouch, remove the Set (figure 1) and inspect and tighten fittings. Avoid contamination of needle and injection ports.
- Position stopcock as shown in figure 2.
- Using aseptic practices, draw approximately 7ml of anticoagulant into the 12cc syringe.
- Place the guarded hemostat on the donor tubing on the donor bag side of the injection port.
- Inject the anticoagulant into the 60ml syringe through the injection port.
- Position the stopcock as shown in figure 3. Charge the butterfly catheter with anticoagulant.
- Remove the hemostat from the donor tubing and place it on the catheter tubing.
- Note: At no time should outside air be allowed to enter this collection system. (see figure 4).

Figure 3

Collection:

- Clip and perform a surgical scrub at the venipuncture site.
- Perform the venipuncture and remove the hemostat. Note: the catheter must be inserted into the vein once it touches the venipuncture site. Do not remove the needle and reinsert it. Failure to follow this guideline may result in product contamination.
- ***Lightly*** pull on the syringe plunger to create a small vacuum. Blood should flow freely into syringe. **NOTE**: Too much pressure can stop blood flow. Continue collection until syringe reads 57ml ±10% (blood plus anticoagulant).
- Turn stopcock to the position in figure 2 and remove needle from the vein.
- Invert syringe several times to mix anticoagulant and blood.
- Push plunger to transfer blood to donor bag. If using tubing stripper pliers, strip the blood from the tubing into the bag..
- Seal donor tubing using 2 sealing clips. Start at the di
- stal end of the tubing, fold the tubing sharply and slip a sealing clip over the fold as shown left. Compress the sealing clip with pliers to form a seal. Repeat adjacent the first clip. This assures a complete seal.
- Cut tubing between clips to remove the syringe and stopcock from the donor bag.

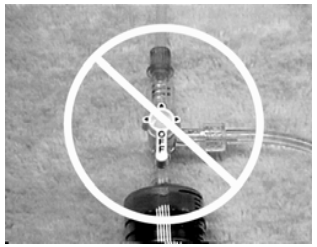

Figure 4. Don't do this!
This setting allows blood to flow out of bag and air to flow in, contaminating the system.

Storage: Blood should be stored between 1°C and 4°C. The bag should be placed upright, using a blood bag holder. This allows air to circulate around the bag to maximize shelf life.

Preparation of RBC's and plasma: When the red cells have settled to the bottom of the donor bag, place the donor bag in a plasma press, place a guarded hemostat on the transfer tubing, apply pressure to the bag, snap the breakaway cannula and release the hemostat until 80% of the plasma is transferred into the transfer bag. Replace hemostat on the transfer tubing and open the press. Important -- red cells cannot be stored unless ≥20% of the plasma is retained on the red cells.

Administration: Inspect the collected blood for hemolysis, discoloration, clots, etc., prior to administration. Gently rock bag to resuspend red cells. Connect a blood administration set or drip set to the bag via one of the spike ports. Purge air from line. When using a drip set, a Hemo-Nate filter must be used. Attach filter to needle adapter at end of drip set before connecting to catheter. Blood products must be filtered during administration. **Warning**. A crossmatch should always be performed before infusion of any blood product.

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