ANIMAL BLOOD BANK®

Lessons in Lifesaving

"Blood Banking for Every Hospital" Series

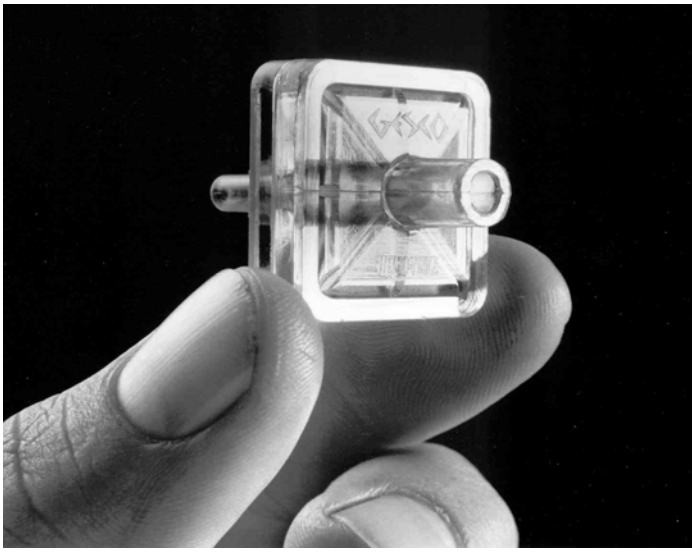
1-800-243-5759

Title: **THE HEMO-NATE™ SYSTEM FOR BLOOD FILTRATION**

When used alone or combined with the **HEMO-TAP® Spike**, the **HEMO-NATE® Filter** becomes the safest, most economical and efficient system on the market for administration of small amounts of whole blood, packed cells, platelets and FFP (fresh frozen plasma).

The **HEMO-TAP® spike**, upon insertion into the blood bag, allows multiple draws from a single unit of blood during a 24 hour period, when the blood bag is properly stored. This not only saves blood, but also reduces the risk of disease that can be transmitted by reducing the number of donor units used on a patient or group of patients.

The **HEMO-NATE® Filter and Spike** are not an additional cost to the hospital. The "system" simply replaces the cost of the standard blood administration set. Where the hospital is entering an entire unit of blood with a blood administration set when only a small amount of blood was needed, a large savings can be afforded through the reduced waste of blood. When replacing the standard administration set, not only is the cost of the administration set saved, but also the blood lost in priming the set and the mess associated with its disposal. Veterinarians and technicians alike appreciate the simplicity and ease with which the **HEMO-NATE®**
filter and/or spike can be used.



Directions for the use of the **HEMO-NATE®** System, with blood bags containing over 50 mLs of blood are as follows:

1. Spike the blood bag with **a HEMO-TAP®** Spike.
2. Place the **HEMO-NATE®** filter on a syringe and a needle on the male luer adapter of filter.
3. Enter **HEMO-TAP®** injection site and remove desired amount of fluid.
4. Withdraw from injection site, remove filter and needle and administer.

Directions for use when transfusing 50 ml of blood directly from donor to recipient. [Note: this procedure is best achieved by using the Small Animal Collection Set described elsewhere.]

1. Fill syringe or collection set with appropriate amount of anticoagulant.
2. Collect desired amount of blood from donor.
3. Remove needle from syringe and place **HEMO-NATE®** filter on syringe or use a small animal drip set and spike the blood bag, attaching the filter to the distal end of the drip set.
4. Attach needle, catheter, or extension set to male luer adapter on filter.
5. Administer blood.

NOTE: The filter is can be used for collection or for administration.

IMPORTANT: Follow these instructions for aseptic technique. The filter is supplied sterile and pyrogen free. Aspiration of blood and certain components when using a bag is recommended for two reasons:

- Excessive pressure on a syringe can hemolize blood through a 25 ga. needle. By aspirating, the danger of excessive pressure is eliminated as the blood is drawn into the syringe by creating a negative pressure and allowing atmospheric pressure to push the blood through the filter media.
- If the blood product has excessive particulates and the filter plugs, it can be unstopped by gently pushing some fluid back into the bag and then aspirating again. Remember that when a filter does occasionally occlude, it is doing its job!

When blood is being transfused directly from a syringe through a filter, care should be taken to exert only gentle pressure on the plunger and to use a 24 ga. or larger needle or catheter. Excessive pressure, too small a needle or forcing blood through a clogged filter may result in damage to the red cells.

In summary, Veterinarians are now discovering the benefits of the **HEMO-NATE® filter** and/or system. In human medicine more than half of the Neonatal Intensive Care Unit's in the United States now use the **HEMO-NATE® System**.

HEMO-NATE® filters and spikes are distributed by:

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