

**HACKETTSTOWN REGIONAL MEDICAL CENTER
NURSING POLICY MANUAL**

LEUKOCYTE REMOVAL ADMINISTRATION SET

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Cross Referenced:

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Authority: Chief Nursing Officer

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SCOPE

All RNs in Inpatient and Outpatient Areas

PURPOSE

To outline the usage and steps for setting up the leukocytes administration set.

DEFINITIONS

POLICY

The Leukocyte removal administration set filters leukocytes from whole blood or from red cell concentrate at bedside during the transfusion process. This reduces the risk of a transfusion reaction for patients at risk due to multiple transfusion reactions.

The removal set is to be utilized with one unit of packed red cells or any other red cell blood products. Not for use with platelet products.

PROCEDURE

A. Equipment List

1. Obtain Leukocyte Removal filters from the Lab
2. Y-type Blood Pump Set and red blood cell product
3. IV pump
4. 250cc 0.9% normal saline

B. Set up

1. Prime y tubing with normal saline as you would for any red cell product transfusion. Now that the y tubing is primed, close all three clamps: 2 at y couplers, 1 at pump cassette (push in white wheel)
2. Attach leukocyte filter to remaining coupler, open both y clamps (leaving cassette clamp closed), by holding filter inverted, this back primes saline into leukocyte filter close clamps. Attach blood. Shut off saline.
3. Open blood clamp (squeeze blood) open cassette wheel, regulate rate on pump. 1st 15 min 75 cc/hr, if no adverse reaction up rate to 125-150cc/hr for remainder of transfusion.
4. When Blood-Pack Units are empty, close bloodline clamps.
5. Rinse the set with saline to remove residual red blood cell product contained within the filter and administration set with a volume equivalent to the set volume.
(Note: Leukocyte Filter gets changed after each unit).

Documentation

1. Document blood was administered using the leukocyte administration set in the Medical Record.

REFERENCES

Fenwal Inc. Lake Zurich, IL 1-800-933-6925