

Blood Product Guidelines for the CHRCO NICU

This document provides an outline of standard blood products provided to NICU patients by our Blood Bank. Additional procedures (eg. washing) are performed under special circumstances.* Before transfusion, appropriate workup must be completed on blood samples from the neonate (and if available, on samples from the mother and the cord).

1. pRBC small-volume transfusion (15-25 ml/kg)
 - a. for babies less than 4 months old
 - i. Type O
 - ii. Leukoreduced
 - iii. Irradiated
 - iv. Sickle screen negative
 - v. Pre-filtered and loaded in a syringe
 - b. for babies over 4 months old
 - i. Requirements listed in 1.a., and in addition:
 - ii. Crossmatched
2. pRBC large volume transfusion (>25ml/kg) or routine surgery
 - a. for babies less than 4 months old
 - i. Type-specific
 - ii. Leukoreduced
 - iii. Irradiated
 - iv. Sickle screen negative
 - b. For babies over 4 months old
 - i. Requirements listed in 2.a., and in addition:
 - ii. Crossmatched

3. Platelets

- a. Donor plasma compatible with recipient ABO group
- b. Leukoreduced
- c. Irradiated

4. FFP

- a. Donor plasma compatible with recipient ABO group
- b. no additional processing

5. Cryoprecipitate

- a. Donor plasma compatible with recipient ABO group
- b. no additional processing.

Note: crossmatch is not required for platelets, FFP, or cryoprecipitate.

*Special circumstances include:

- ECMO
- Open-heart newborn cardiac surgery
- Large-volume (>25 ml/kg) transfusion using type O including exchange transfusion. (Normally, type-specific product is used in this situation, but occasionally type-specific is not appropriate or available. If an exchange transfusion were to use non-type specific (type O) pRBC, it would fall into this category. ABO/HDN problems also fall into this category.

Approved on 8-29-13 by:

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