#### Performing Pre-transfusion Testing for Neonates

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| Purpose | To provide instructions regarding transfusion testing to be performed for neonates initial workup or subsequent workup. |

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| Definition | Neonate: A neonate is an infant that is less than 4 months old. |

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| Policy | * The initial blood banded specimen may used for a neonate until one of the following occurs; at which time the 3 day rule will then apply. * The infant is 4 months old * The neonate is discharged * No serum is remaining * Type A, B or AB neonate is switched from type O to type specific blood * Type AB neonate is switched from: * Type A to B or AB blood * Type B to A or AB blood * A 7 day rule will apply when the neonate’s antibody screen is positive and/or the DAT and Elution are positive and antigen negative units are not available. * Antigen negative or antiglobulin crossmatched units will be provided until the antibody is no longer present. |

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| Specimen Requirements | * Blood ID Banded * 2-3 ml (1.5 ml minimum) EDTA   NOTE: Cord blood specimens will not be used for transfusion testing. |

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| Testing a Neonate Specimen | Follow the steps below to complete required testing on the initial or subsequent neonate specimen.   |  |  | | --- | --- | | Step | Action | | 1 | Ensure an order for an “INWU” under the neonate’s medical record number has been entered. | | 2 | Access the test grid in BOP and enter results for each required test listed in the following steps once they are completed. | | 3 | Perform a history check for the baby and the mother, if available. | |

Performing Pre-transfusion Testing for Neonates for Neonates, Continued

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| Testing a Neonate Specimen (continued) | |  |  | | --- | --- | | Step | Action | | 4 | Perform an ABORh on the neonate’s specimen. | | 5 | Perform a Capture antibody screen.   |  |  | | --- | --- | | If… | Then… | | Initial Specimen | * If positive, follow up with Capture ID panel * If mother has known antibody specificity and small amount of baby plasma is available, Peg selected cells may be used to identify the antibody in the baby’s plasma. * All clinically significant antibodies must be ruled out using the neonate’s current specimen * Result ABID with free text ” Date, Maternal Anti-X “. | | Subsequent Specimen | * Perform if the neonate’s initial antibody screen or DAT were positive   AND   * ≥ 2 months have passed since first tested   NOTE: If antibody screen testing is not performed then result the “AS” (Antibody screen) test as either POS or NEG based on the initial specimen antibody screen test results. | | | 6 | Perform a tube DAT-IgG test in the following circumstances:   * DAT has not been tested during the current admission * DAT was previously positive and an elution has not been performed | | 7 | Perform an elution if the tube DAT is positive. | | 8 | Perform antigen typing for antigens corresponding to maternal antibodies, if commercial antisera is available. | |
| Testing a Neonate Specimen (continued) | |  |  | | --- | --- | | 9 | Enter the following additional required information in the laboratory computer system:   * Armband Number (RN) – Blood ID Band Number * Units Ordered (UO) – enter number requested or HIDE * Crossmatch Expiration Date – * Date the neonate will be 4 months old   OR   * 7 days from specimen draw date if antibody screen is positive and AHG crossmatch is required * Any special requirements for the blood products | | 10 | Click “Save” and refer to “Determining Compatibility for Neonates” if blood has been requested. | |