

## Summary

### Procedures:

#### A. Shipment of samples to Roche Laboratory

Samples are sent to Roche for HLA typing every 2 weeks in batches of boxes of 81 samples. The samples are shipped via the overnight Federal Express service. These batches may include:

1. Whole blood samples from infants born at St. Joseph's Hospital-NEC or NOC
2. Whole blood samples from children enrolled as part of the sibling-offspring cohort-SOC
3. Whole blood samples from family members of children enrolled in follow-up-FAM
4. Whole blood quality control samples-Roche QC
5. Whole blood resends - samples being resent because Roche was unable to type the original or because we have reason to question the result given-Roche RESEND

#### B. Import and Notification of HLA typing results

HLA typing results are sent by email as Excel spreadsheets. The results are imported into the Roche Import database, checked, and then transferred into the appropriate data tables. Results letters are sent to the parents of infants born at St Joseph's Hospital. Results for children in the sibling-offspring cohort and for family member are given over the phone if requested or at a subsequent clinic visit.

#### C. Quality control for HLA typing

The purpose of the Roche QC is to verify the HLA gene type of the newborns enrolled in the DAISY Study. The QC is done for all children whose cord blood was tested at birth, and who are enrolled in the DAISY follow-up study. Detailed information about selecting and sending samples for QC's is included under ENROLLMENT.

#### D. Resends

Samples are resent if Roche was unable to type the original sample or if we have reason to question the result given. A list of samples to resend is generated each time that new results are imported.

## APPENDIX

- A. Probe Reactivity Patterns
- B. Shipping List
- C. Roche Samples to Resend
- D. Roche QC – Whole blood
- E. HLA Results letters
  1. repRocheLetter3/-
  2. repRocheLetter3/4
  3. repRocheLetter4/-
  4. repRoche Letter4/2
  5. repRocheLetterLowRisk

6. repRocheLetterLow
7. repRocheLetterMod
8. repRocheLetterHigh
9. repRocheLetterUnsure