HLA Laboratory Data Extraction for Kidney Outcomes Study

Requirements for patient and donor identifiers in the HLA LIS

Recipients: SSN (or identifier used for UNOS)

Donors: UNOS ID (for both deceased and living donors)

Process overview

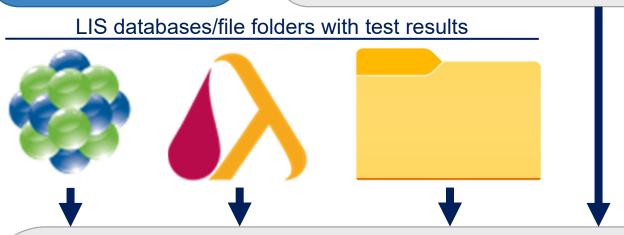
TIEDI - UNOS

- -See PDF for instructions to:
- -Download recipient report
- -Download donor report

Import TIEDI reports
Filter for kidney transplants
Link recipient and donor reports
Resulting table includes:



- SSN to link to recipients in HLA database
- Histocompatibility ID an indirect recipient identifier to link to SRTR data
- UNOS donor ID an indirect identifier to link to HLA database and to SRTR data



- Import processed UNOS data from TIEDI reports
- Connect to main LIS (HistoTrac, etc.) and download main patient and donor tables
 - See PDFs for setting up connections to HistoTrac and Fusion SQL servers
- Link patient and donor tables to UNOS data and perform quality checks:
 - Which patients and donors won't join, have multiple entries, etc.?
 - · Manually update LIS to correct any errors found
- · Add Histocompatibility IDs to table, remove all PHI, save main table for transfer to Penn
- Compile tables for typing, antibody and crossmatch results:
 - RT-PCR: ambiguity strings available in XML files; script will find relevant files and create a table with ambiguity strings.
 - SSO: ambiguity strings may be available in HistoTrac or Fusion; script contains code to access both and add to a table with ambiguity strings.
 - Single antigen bead results: bead-level data and results may be available in HistoTrac or Fusion; script contains code to access both and add to a table with ambiguity strings.
 - Flow crossmatch: while this will likely be highly variable between labs, script contains code to access this info from HistoTrac and add to a table.
- Remove all PHI, making sure Histocompatibility ID and UNOS ID are available in all tables, save each for transfer to Penn.

