

# 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



## LIS databases/file folders with test results



- 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.



**Transfer all final tables to Penn via SFTP**