

Guide to Upcoming Changes to

OPTN KPD Histocompatibility Testing (Policy 13.5) and Crossmatching Requirements (Policy 13.10)

HLA typing and reporting			Effect on match run eligibility
HLA	Donor	Candidate	
A	Required	Required	Candidate ineligible for match runs until both reported
B	Required	Required	Candidate ineligible for match runs until both reported
Bw4	Required	Required	Candidate ineligible for match runs until reported
Bw6	Required	Required	Candidate ineligible for match runs until reported
C	Required	Required if candidate has unacceptable antigens listed	Candidate ineligible for match runs until both reported
DR	Required	Required	Candidate ineligible for match runs until both reported
DR51	Required	Required if candidate has unacceptable antigens listed	Candidate ineligible for match runs until reported
DR52	Required	Required if candidate has unacceptable antigens listed	Candidate ineligible for match runs until reported
DR53	Required	Required if candidate has unacceptable antigens listed	Candidate ineligible for match runs until reported
DQA	Required	Required if candidate has unacceptable antigens listed	Candidate ineligible for match runs until both reported
DQB	Required	Required if candidate has unacceptable antigens listed	Candidate ineligible for match runs until both reported
DPB	Required	Required if candidate has unacceptable antigens listed	Candidate ineligible for match runs until both reported
<i>Report serological split level molecular typing results for all</i>			<ul style="list-style-type: none"> • <i>No second antigen detected is an acceptable response for eligibility</i> • <i>Fields required for eligibility in KPD are indicated by *</i>

Responding to match offers

Before refusing a match offer	Physician/surgeon and HLA director or their designees reviews matched donor antigens with candidates unacceptable and documents review in medical record
After refusing a match offer	Submit written explanation to the OPTN contractor within 7 days of decline
After accepting a match offer	The matched candidate's transplant hospital is responsible for performing HLA typing on the matched donor and verifying the HLA information reported prior to transplant.

Crossmatches

Before matched scheduling donor's recovery	Physical crossmatch between matched donor and candidate
Before transplant	Final crossmatch between matched donor and candidate

Antibody screening

- For testing and re-testing: Use antibody testing method that is at least as sensitive as the crossmatch method. If antibodies are detected, then identify unacceptable antigens using a solid-phase of single phenotype or solid phase single-antigen test.
- For all reviews: must be reviewed by candidate's physician or surgeon or their designee AND the histocompatibility laboratory director or the directors' designee AND the review must be documented in the candidate's medical record.
Note: Review for *110 days, sensitizing event* and *inactive to active status* is only required if new unacceptable antigens are found.

	Test/re-test candidates unacceptables	Review reported candidate unacceptables	Report candidate unacceptables that are considered absolute contraindications to transplant	Effect on candidate eligibility status
On entrance into KPD, before appearing on first match run	Test	Review	Report under "unacceptable antigens" If no unacceptable antigens are detected, then report as unsensitized	Candidate ineligible for match runs until transplant hospital has answered 'Yes' to the question: 'Prior to a candidate appearing on their first match run, all unacceptables antigens in KPD must be reviewed. Have the candidate's unacceptables antigens been reviewed?*' on the Testing and Review of Unacceptables section in the candidate KPD record. Required for candidates entered after Jan 20, 2016
When match offer refusal of 'Positive and unacceptable crossmatch' reported	Re-test	Review	Report changes: If no unacceptable antigens are detected, then report as unsensitized	Candidate ineligible for match runs until the Review box checked on the Testing and Review of Unacceptables section of the candidate KPD record in response to 'A match offer was refused due to "Positive and unacceptable crossmatch" or "Unacceptable antigens (positive virtual crossmatch)." Check the box when the candidate's unacceptable antigens have been reviewed, as defined in policy.
When match offer refusal of 'Unacceptable antigens (positive virtual crossmatch)' reported	N/A	Review	Report changes: If no unacceptable antigens are detected, then report as unsensitized	Candidate ineligible for match runs until the Review box checked on the Testing and Review of Unacceptables section of the candidate KPD record in response to 'A match offer was refused due to "Positive and unacceptable crossmatch" or "Unacceptable antigens (positive virtual crossmatch)." Check the box when the candidate's unacceptable antigens have been reviewed, as defined in policy.
Every 110 days	Re-test	Review only if new unacceptables are found	Report changes: If no unacceptable antigens are detected, then report as unsensitized	Match run eligibility not effected
When a potentially sensitizing event occurs	Re-test	Review only if new unacceptables are found	Report changes: If no unacceptable antigens are detected, then report as unsensitized	Match run eligibility not effected
When a paired candidate who has been inactive for more than 90 days has been reactivated	Re-test	Review only if new unacceptables are found	Report changes: If no unacceptable antigens are detected, then report as unsensitized	Match run eligibility not effected