Human Leukocyte Antigen (HLA) Equivalency Tables Update (2020)

OPTN Histocompatibility Committee
# HLA Table Updates (2020)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Reference tables need updates for currency</td>
<td>• Updates for consistency with nomenclature &amp; test kits</td>
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<td></td>
<td>• Use DPB1 epitopes for unacceptable antigens (UAs)</td>
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<tr>
<td>• Tables increasing in size and complexity</td>
<td>• Modify Table 4-14 for usability, keeping relevant antigens and alleles</td>
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<tr>
<td>• Long period of time needed to perform table updates</td>
<td>• New policy language to reduce length of time for updates</td>
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Table Updates

- Updates made to the following loci
  - HLA B and DR for Matching Antigen Equivalences
  - HLA B, C, DR, DQB1, and DPB1 UA Equivalences
- Includes additions of newly identified antigens or alleles
- Source – IMGT-HLA database
Use of DPB1 Epitopes – optional field

- **Rationale**
  - Advancing technology
  - Reduce transplant program or histocompatibility lab administrative burden
  - Reduce potential for data entry errors

**Current**

**Proposed**

84GGPM = 469 antigens & alleles
Faster table updates

**Current**

Future HLA Table Update → Public Comment → OPTN Board Consideration → Implementation

**Proposed**

Future HLA Table Update → Public Comment →
- Objections → OPTN Board Consideration → Implementation
- No Objections → Implementation
Member Implementation

- **Transplant Hospitals & OPOs**
  - May need to evaluate agreements with histocompatibility laboratories to accommodate any needed changes
  - Associates or third-party vendors will have to update their programs to reflect the changes in this proposal

- **Histocompatibility Laboratories**
  - Answer questions from transplant community members regarding value changes, including epitope-based UA reporting availability
  - Lab informatics systems (LIS) will require updates
Future updates

- Future updates will be subject to public comment
- OPTN will provide updates to members and vendors
Questions
Proposal Implementation Update
# Recently Approved Proposals

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Board Approval</th>
<th>Implementation Dates</th>
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</table>
| **Addressing HLA Typing Errors**  
• Reduce instances of data entry errors for HLA typing | December 2018 | See below |
| • New double entry for HLA data entered manually in UNet\textsuperscript{SM}  
  o Implementation target → February 27, 2020 | | |