

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

OPTN Histocompatibility Committee

HLA Table Updates (2020)

Problem	Proposal
<ul style="list-style-type: none">• Reference tables need updates for currency	<ul style="list-style-type: none">• Updates for consistency with nomenclature & test kits• Use DPB1 epitopes for unacceptable antigens (UAs)
<ul style="list-style-type: none">• Tables increasing in size and complexity	<ul style="list-style-type: none">• Modify Table 4-14 for usability, keeping relevant antigens and alleles
<ul style="list-style-type: none">• Long period of time needed to perform table updates	<ul style="list-style-type: none">• New policy language to reduce length of time for updates

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

Select all **DPB1** unacceptable antigens:

Available Values	Selected Values
01:01	
02:01	
03:01	
04:01	
04:02	
05:01	
06:01	
09:01	
10:01	
11:01	

Proposed

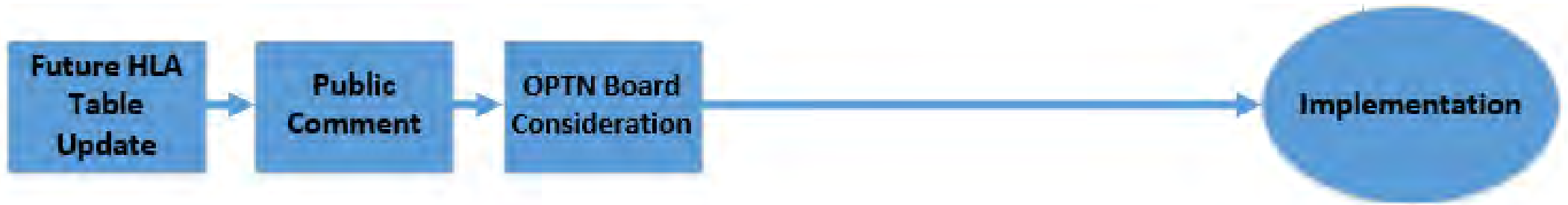
Select all **DPB1** unacceptable antigens:

Available Values	Selected Values
55AAE	
55DED	
55DEE	
55EAE	
84DEAV	
84GGPM	
84VGPM	
01:01	
02:01	
03:01	
04:01	

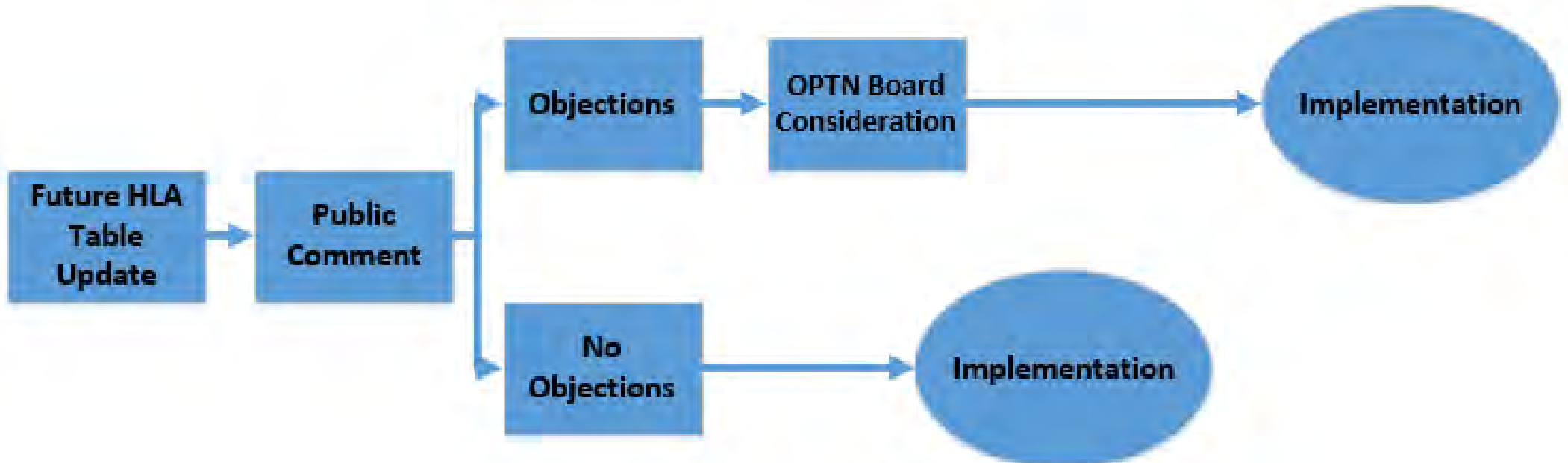
**84GGPM =
469 antigens
& alleles**

Faster table updates

Current



Proposed



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

Proposal	Board Approval	Implementation Dates
Addressing HLA Typing Errors <ul style="list-style-type: none">• Reduce instances of data entry errors for HLA typing	December 2018	See below
<ul style="list-style-type: none">• New double entry for HLA data entered manually in UNetSM<ul style="list-style-type: none">○ Implementation target → February 27, 2020		