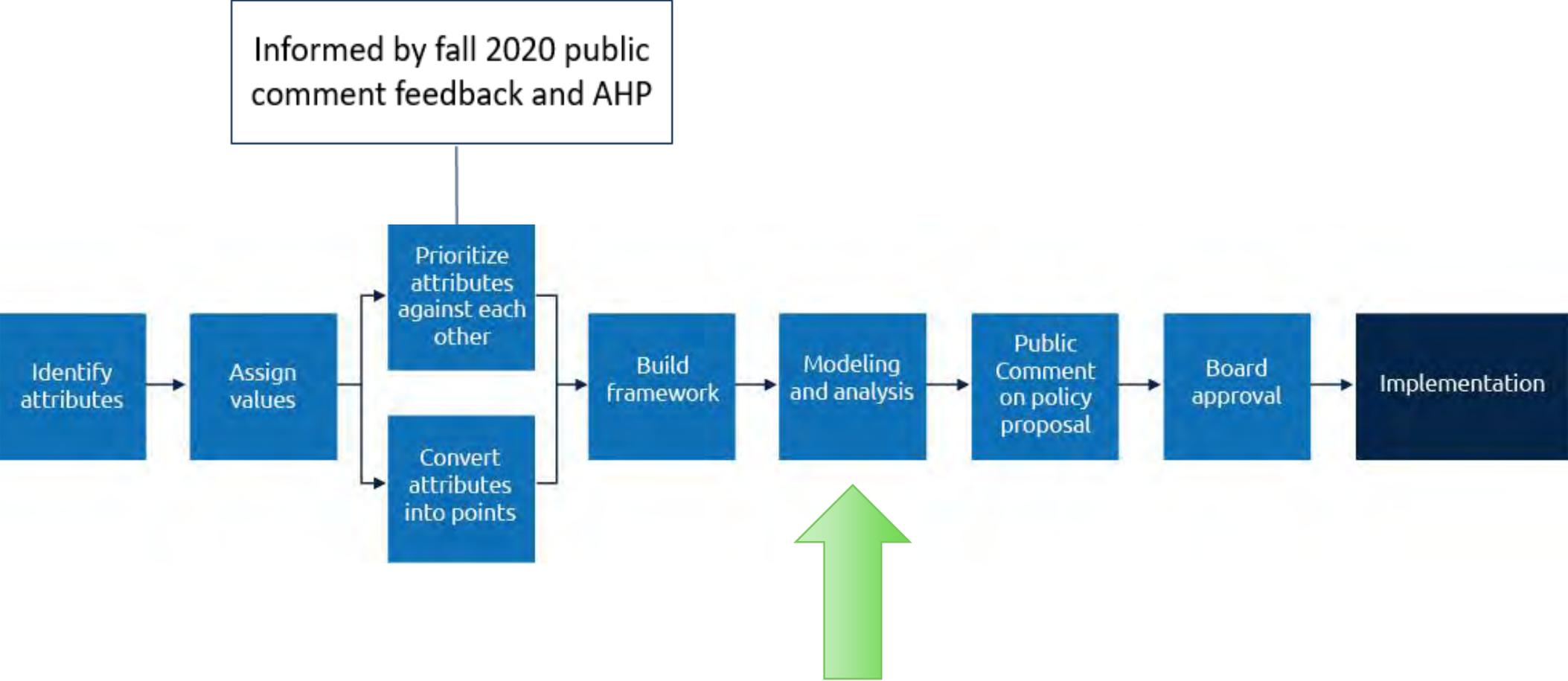


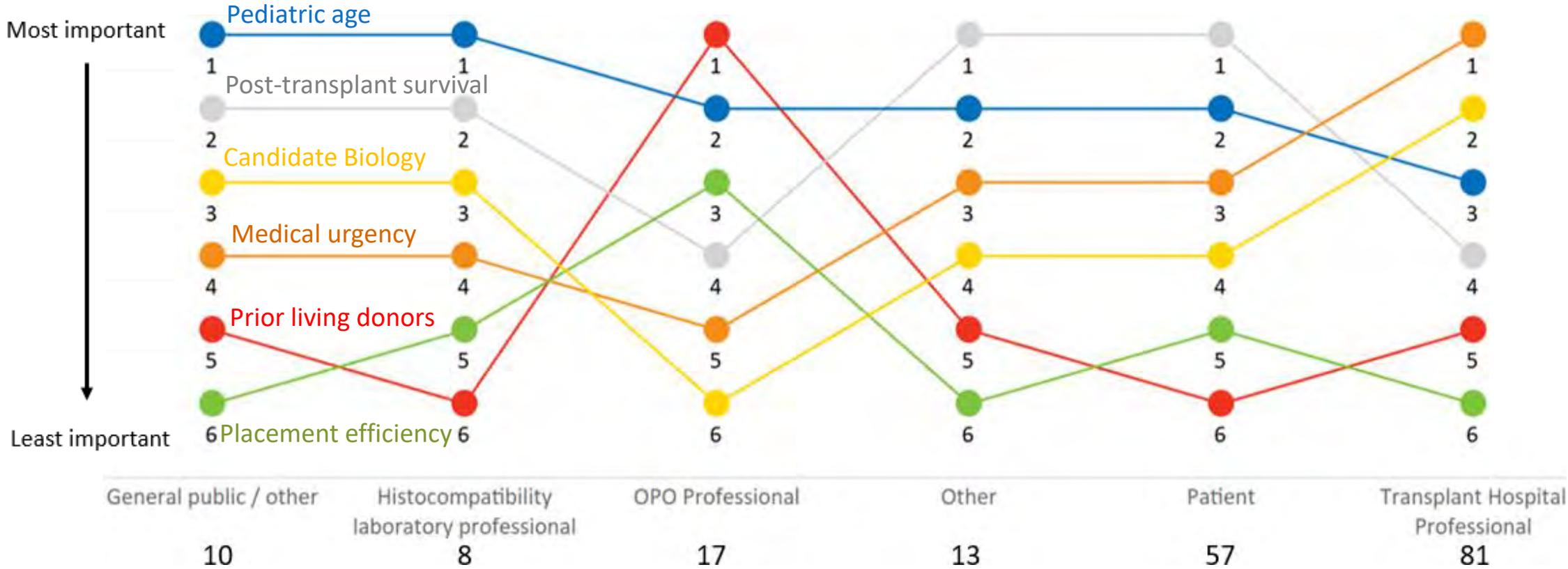
# OPTN Lung Transplantation Committee

*Winter 2021*

# Continuous Distribution of Lungs Development

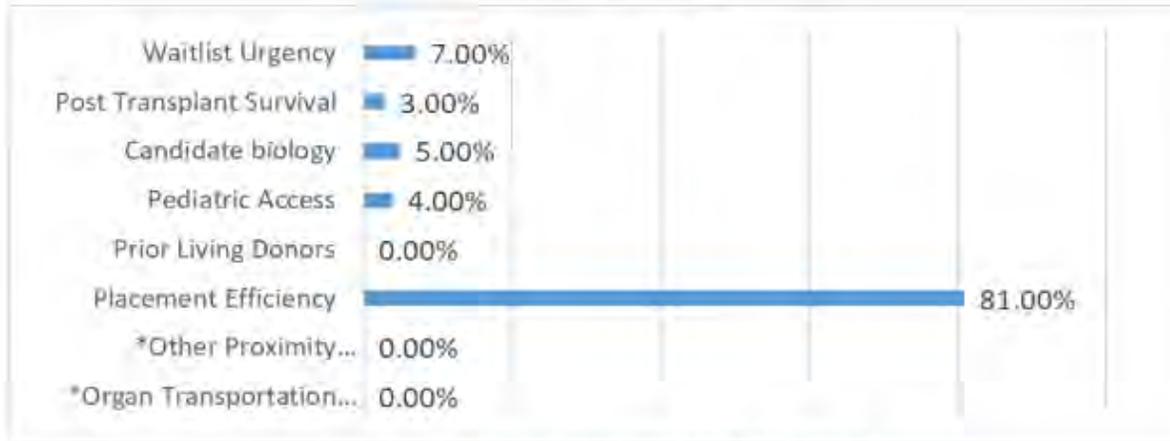


# AHP Results by Community Groups

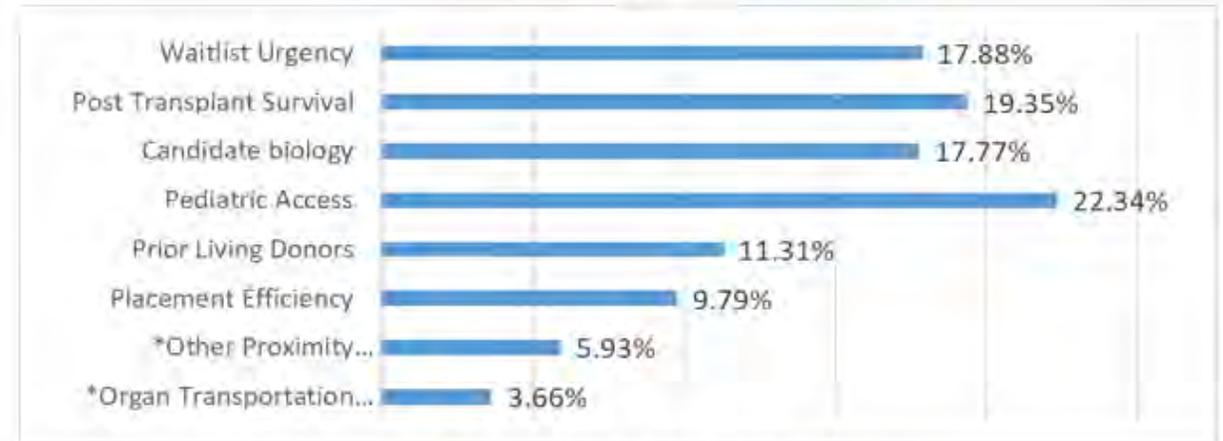


# Current Policy vs. Community Priorities

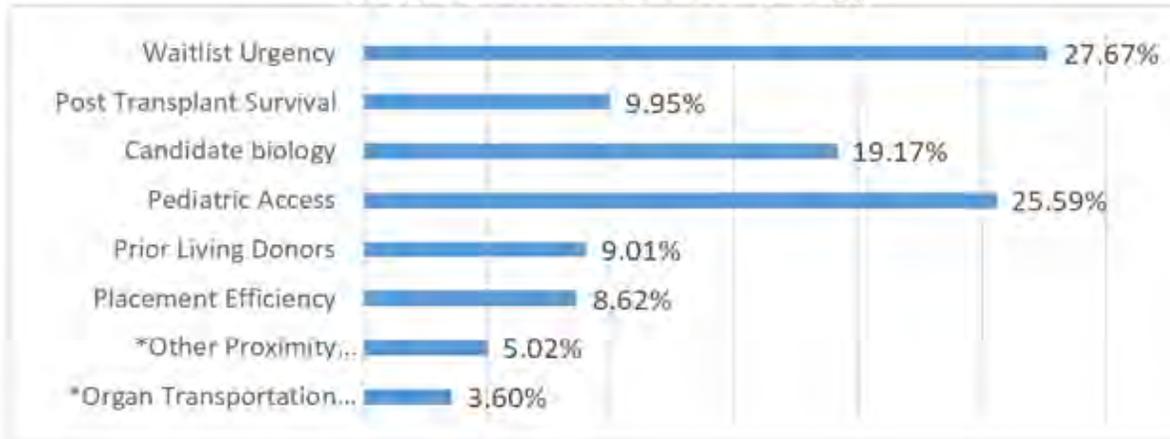
## Current Policy



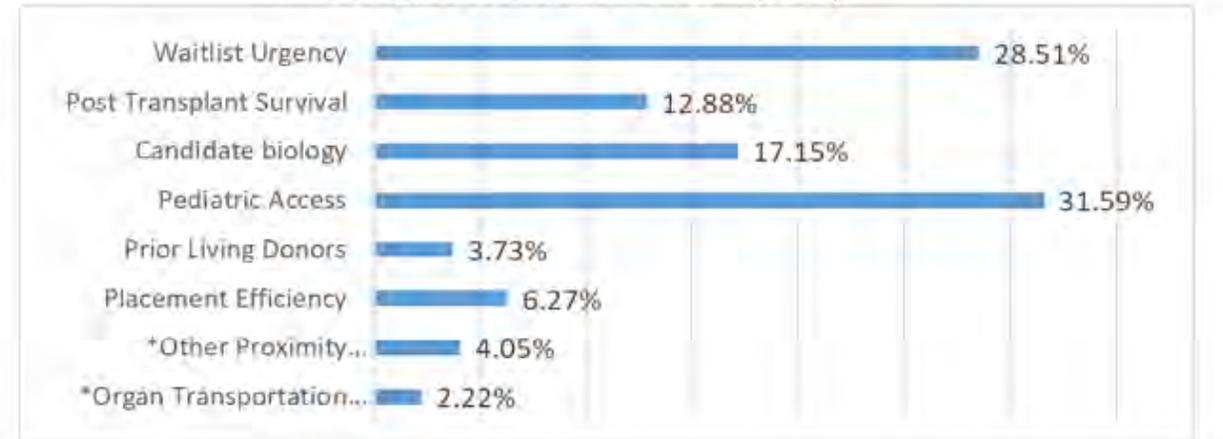
## Community AHP



## Lung Committee AHP (Aug)



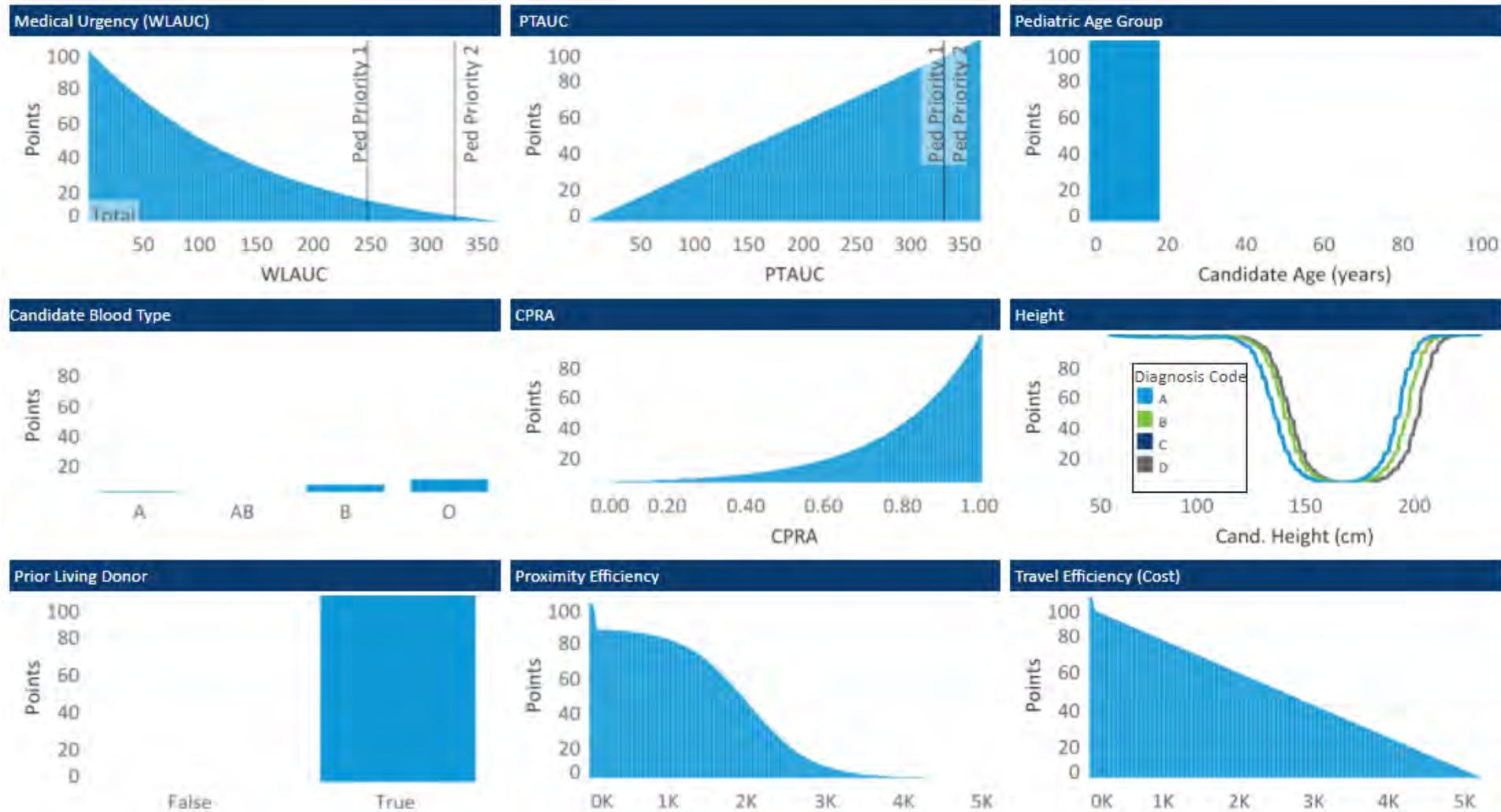
## Lung Committee AHP (Oct)



# Priorities Inform Relative Attribute Weights

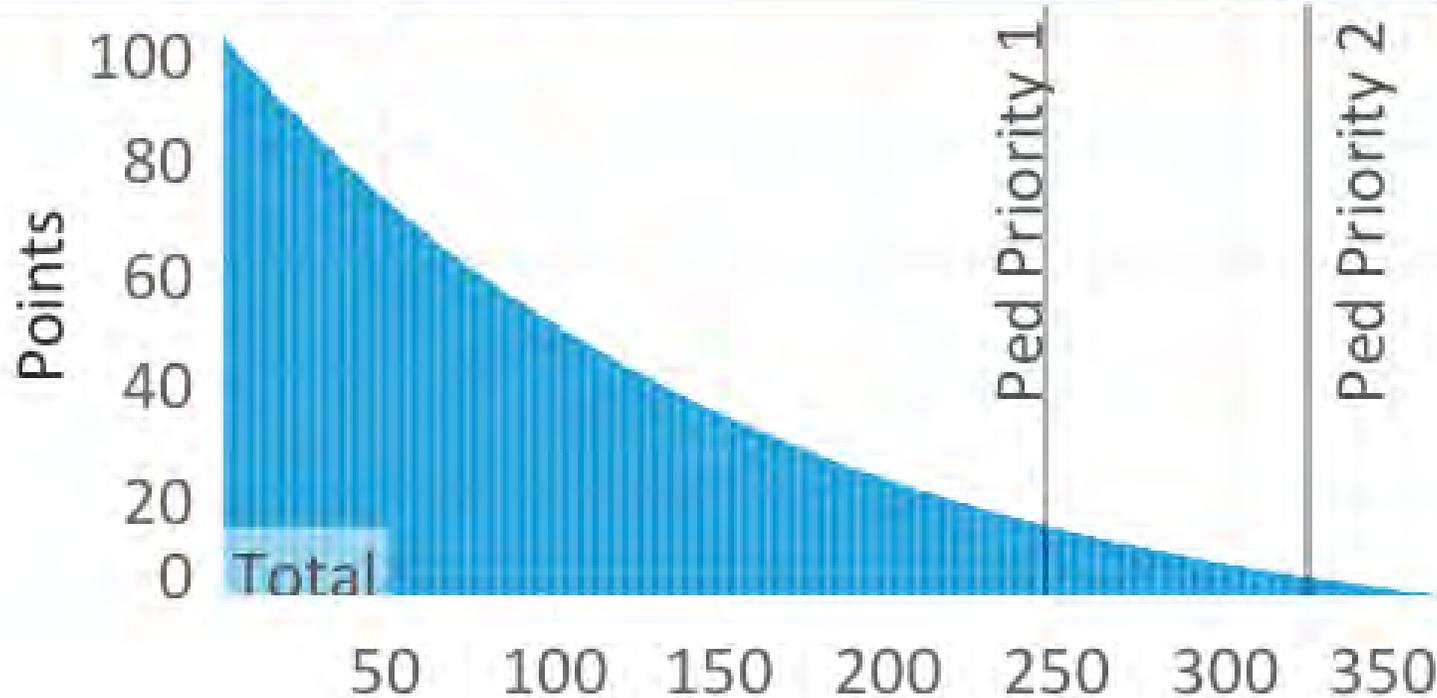
	Final Committee AHP Results (Rounded)	SRTR Modeling Request			
		2:1 LAS	1:1 LAS	Higher Placement Efficiency	Higher Candidate Biology
Waitlist Survival	29%	28%	21%	14%	14%
Post-Transplant Survival	13%	14%	21%	14%	14%
Candidate Biology	17%	17%	17%	11%	40%
Pediatric	31%	31%	31%	20%	20%
Prior Living Donor	4%	4%	4%	1%	1%
Placement Efficiency	6%	6%	6%	40%	11%

# Each Attribute is Defined by a Rating Scale



# Medical Urgency Rating Scale

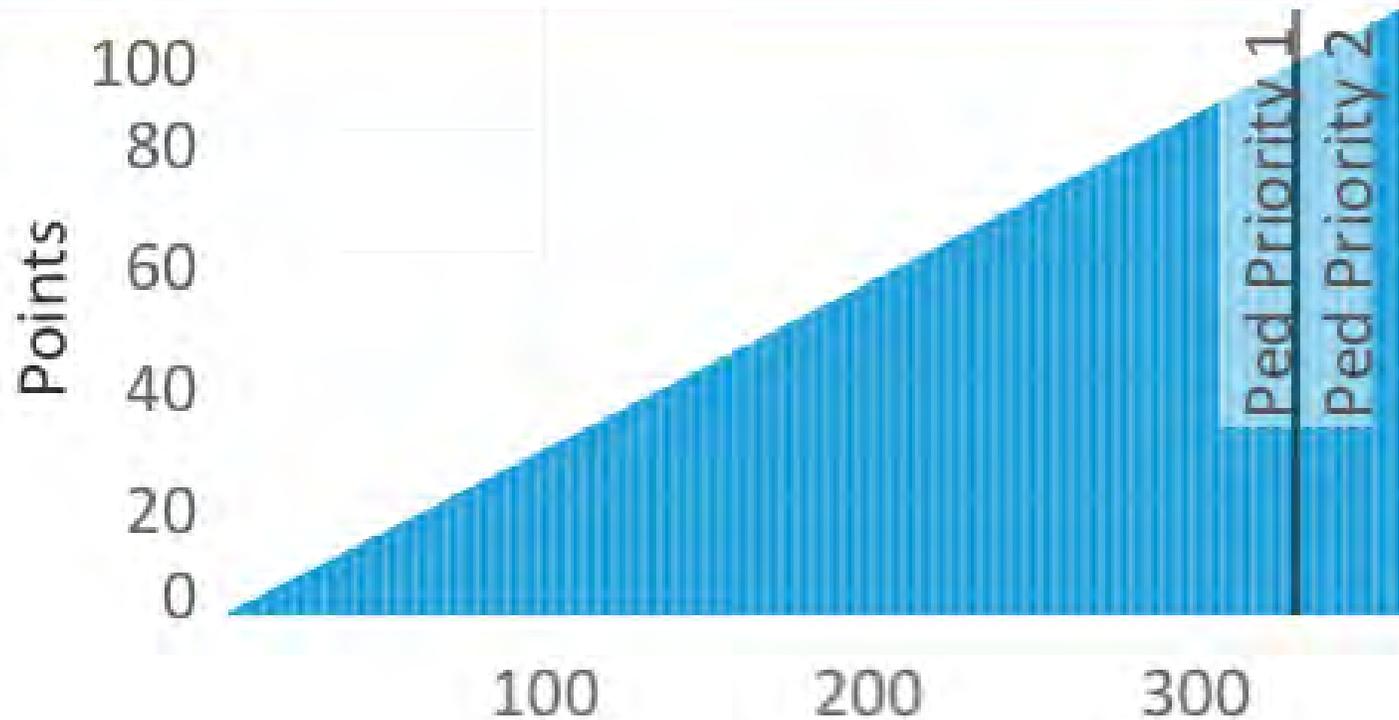
## Medical Urgency (WLAUC)



Nonlinear curve gives more of a boost to candidates with lower waitlist survival

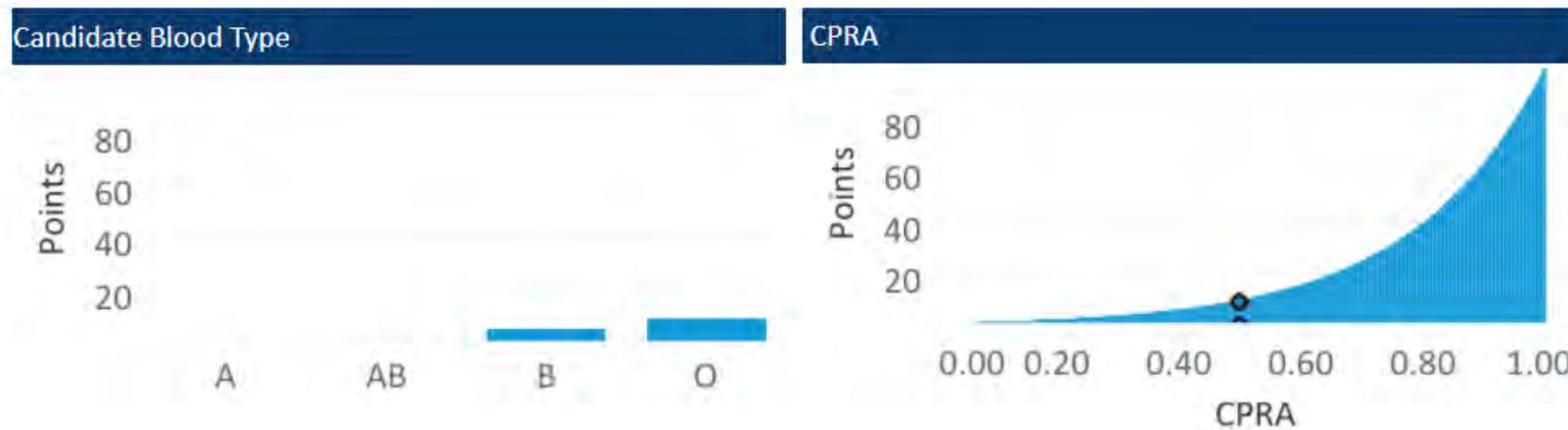
# Post-Transplant Survival Rating Scale

PTAUC

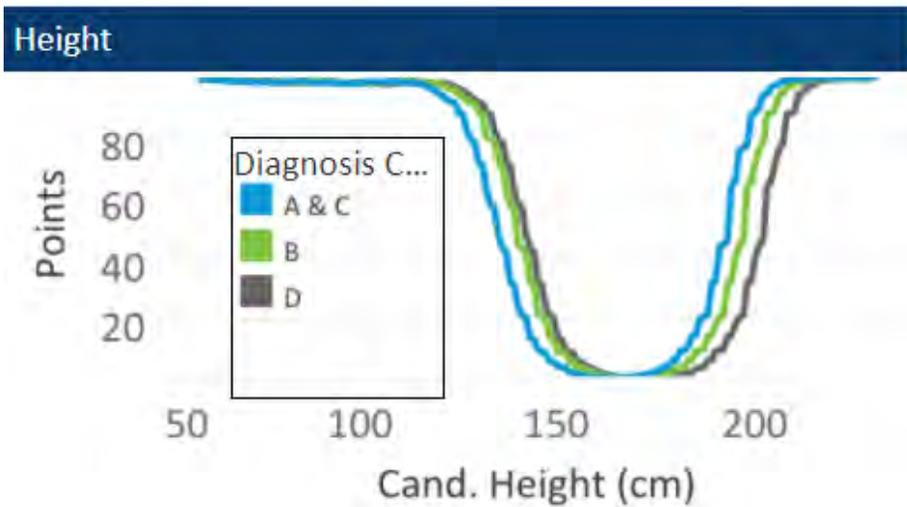


Linear curve gives more points to candidates expected to live up to a year after transplant

# Candidate Biology Rating Scale

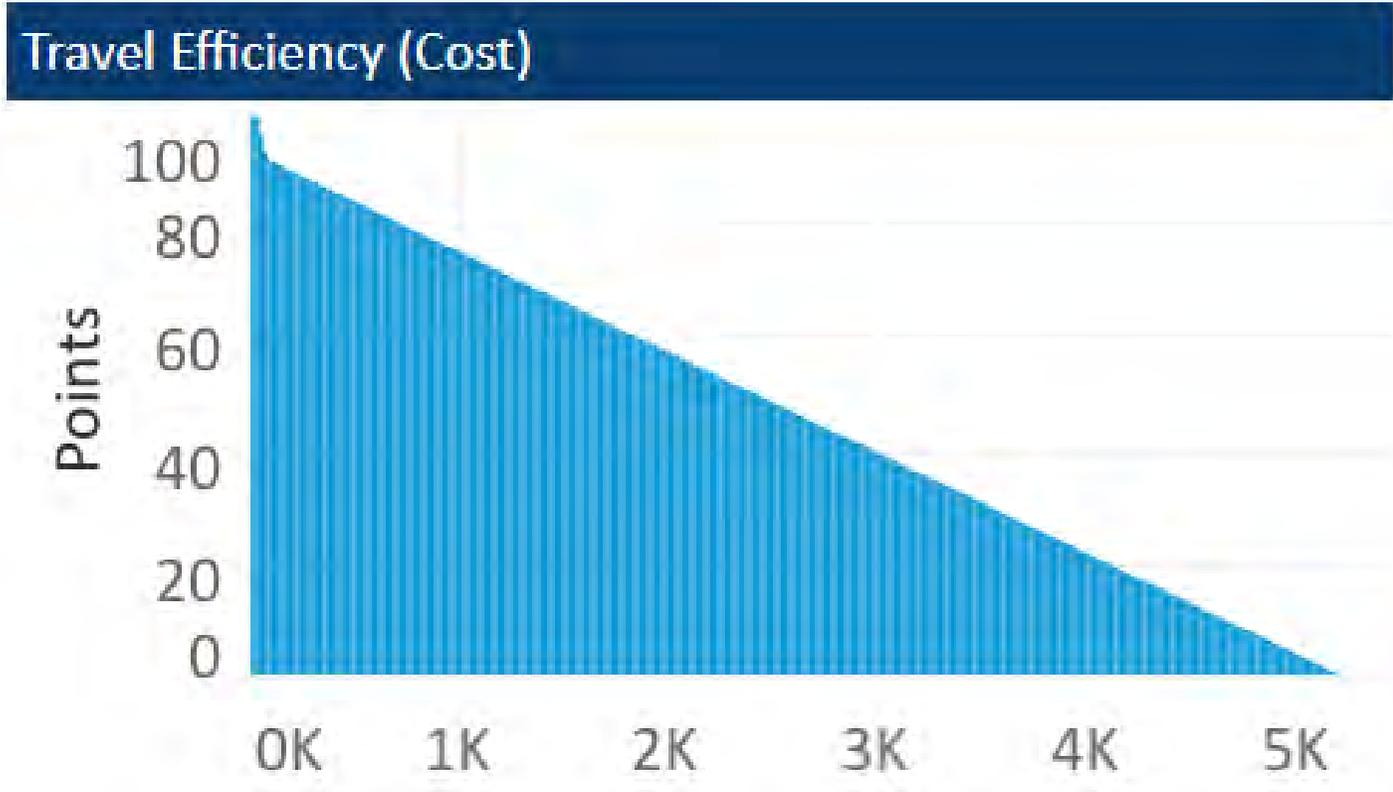


- Blood type
- Sensitization
- Height



Steep curve gives more of a boost to candidates who are most biologically disadvantaged

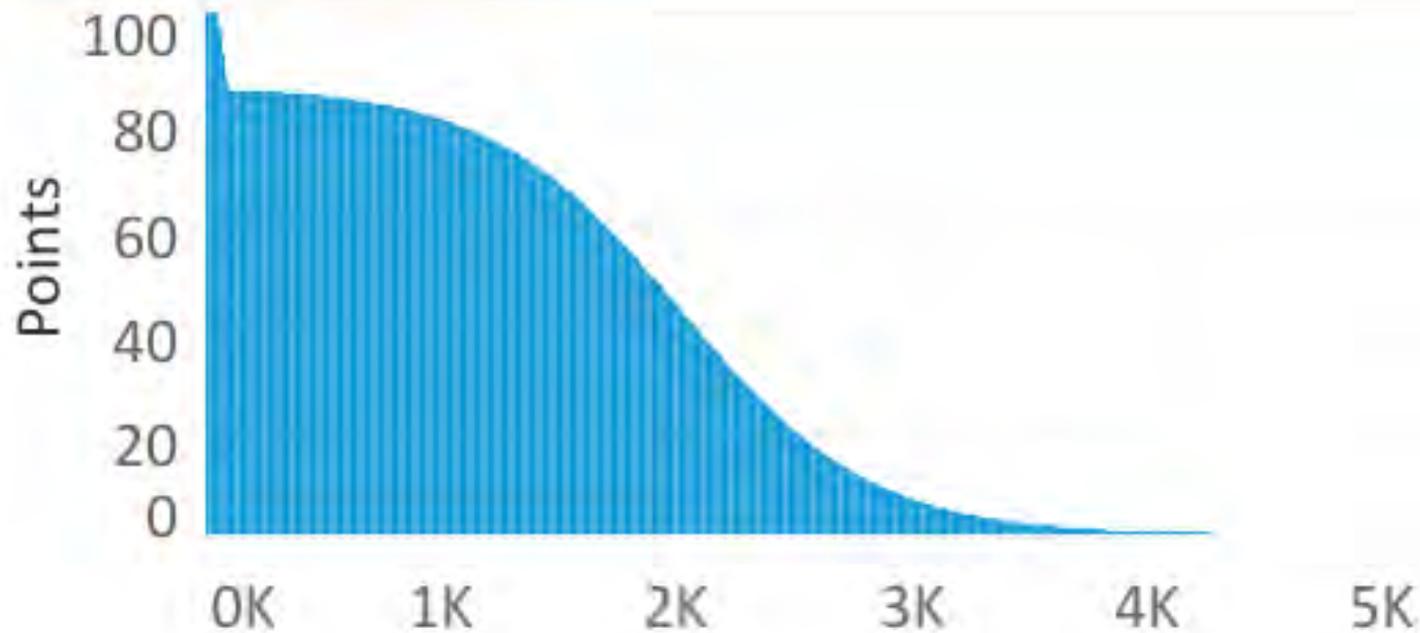
# Travel Cost Efficiency Rating Scale



Multi-linear shape represents increases in organ transportation costs at farther distances from the donor hospital

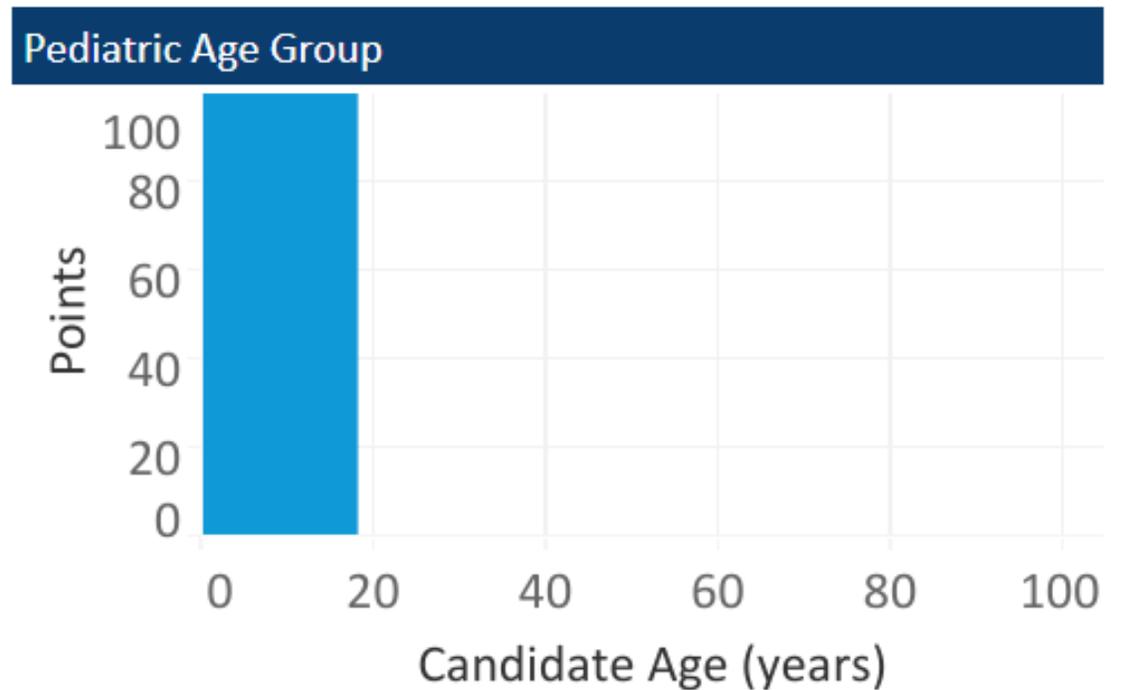
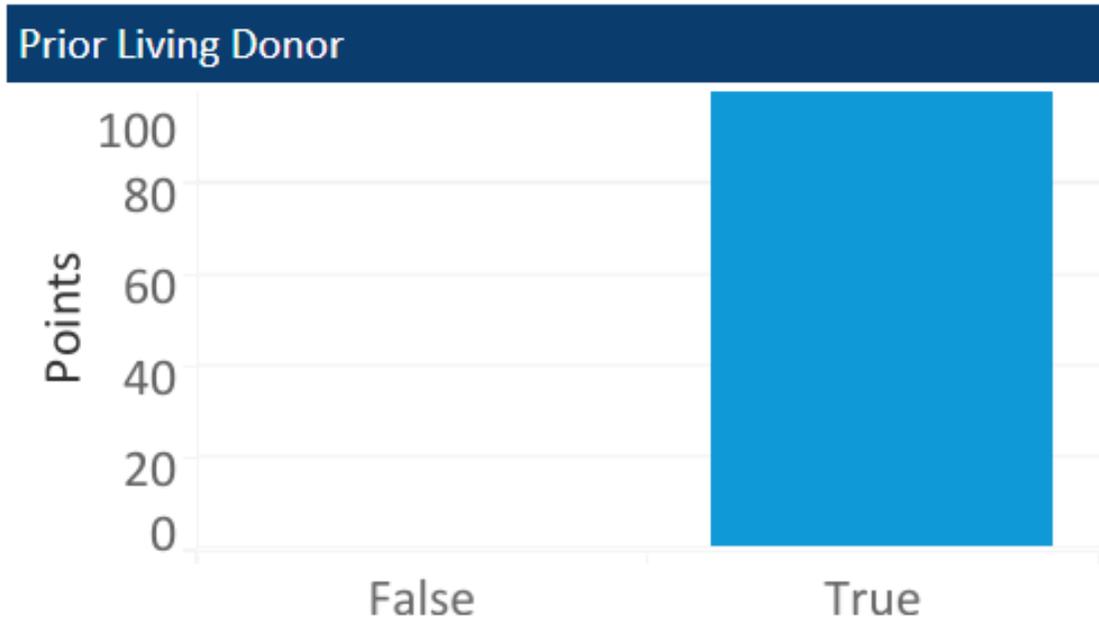
# Proximity Efficiency Rating Scale

## Proximity Efficiency



Multi-curve shape represents increases in inefficiencies (other than costs) at farther distances from the donor hospital

# Prior Living Lung Donor & Pediatric Rating Scales



All prior living lung donors get the same boost  
All pediatric candidates get the same boost

# Interactive Tool to Inform Decision-Making

Interactive Tableau dashboard tool available to simulate comparisons and match runs

- Change weights to see match run ordering
- Compare current match run with composite allocation score
- Compare two candidates by selecting clinical criteria
- Calculate scores with different rating scales
- Display candidates equity and utility scores with different weights



# Next Steps

- Identify policy changes needed to support shift to continuous distribution
- Review results of initial modeling request and refine as needed
- Submit second modeling request and review results
- Release policy proposal for public comment in August 2021
- Concurrently – work to update models used to estimate medical urgency and post-transplant survival