

Optimizing Usage of Kidney Offer Filters

OPTN Operations and Safety Committee

Overview

- Offer filters tool allows transplant programs to apply program-specific, multi-factorial filters to bypass donor offers that they do not want to receive (currently voluntary)
- Project Goal: Develop a more broadly utilized offer filter model that will create multi-factorial offer filters to filter off organ offers more precisely
 - First iteration of this project will address kidney offer filters
 - Future iterations will address offer filters across all organs

Purpose of Concept Paper

- Provide community an update on the Committee's ongoing work on kidney offer filters
- Increase awareness on the benefit of offer filters usage
- Seek community feedback on potential options to increase utilization and system benefit of kidney offer filters

Concept Paper

- Provides an overview of the offer filter concept, data from the pilot program and voluntary rollout of kidney offer filters
- Seeks community feedback on potential offer filter options:
 - Default Filters
 - Mandatory Filters

Rationale

- Offer filters is one of many strategies for increasing the efficiency of organ placement
- Usage of offer filters can increase the number of transplants and decrease cold time by getting to organ offer acceptances faster
- This project presents two options that will allow transplant programs to create multi-factorial offer filters to filter off their organ offers more precisely

Offer Filter Options – Default Filters

- Default Filters
 - Recommended offer filters turned on by default
 - Transplant programs would have ability to turn off filters and/or adjust recommended offer filter criteria

Offer Filter Options – Mandatory Offer Filters

- Mandatory Offer Filters
 - Based on prior organ offer acceptance/refusal behavior
 - Developing pathway to demonstrate change in behavior
 - Using model filter to develop more restrictive criteria:
 - Distance
 - Cold ischemic time
 - Mixture of all criteria

Evidence Threshold for Mandatory Filters

Kidney offers from the past 2 years
Only donors that were eventually accepted
Only offers up to and including final offer acceptance
Must filter at least 20 donors
Must have 0 acceptances
No candidate parameters included

Option 1: Offers that are far away

Center	Donors Impacted over 2 years	Model Identified Filter	Mandatory Filter
AAAA	483	Distance exceeds 325 nm AND Offer timing is post-cross clamp	Distance exceeds 575 nm AND Offer timing is post-cross clamp
BBBB	384	Donor KDPI exceeds 15% AND Offer timing is post-cross clamp	Donor KDPI exceeds 15% AND Offer timing is post-cross clamp <u>AND Distance exceeds 250 nm</u>
CCCC	331	Distance exceeds 125 nm AND CIT at time of offer exceeds 5 hours AND Donor age greater than 15 years	Distance exceeds 375 nm AND CIT at time of offer exceeds 5 hours AND Donor age greater than 15 years
DDDD	297	Distance exceeds 200 nm AND Donor KDPI exceeds 35% AND Donor has any hx of hypertension	Distance exceeds 450 nm AND Donor KDPI exceeds 35% AND Donor has any hx of hypertension
EEEE	167	Donor KDPI exceeds 40% AND Donor type is DCD	Donor KDPI exceeds 40% AND Donor type is DCD <u>AND Distance exceeds 250 nm</u>

Option 2: CIT at time of offer

Center	Donors Impacted over 2 years	Model Identified Filter	Mandatory Filter
AAAA	483	Distance exceeds 325 nm AND Offer timing is post-cross clamp	Distance exceeds 325 nm AND <u>CIT at time of offer exceeds 5 hours</u>
BBBB	384	Donor KDPI exceeds 15% AND Offer timing is post-cross clamp	Donor KDPI exceeds 15% AND <u>CIT at time of offer exceeds 5 hours</u>
CCCC	331	Distance exceeds 125 nm AND CIT at time of offer exceeds 5 hours AND Donor age greater than 15 years	Distance exceeds 125 nm AND CIT at time of offer exceeds <u>10</u> hours AND Donor age greater than 15 years
DDDD	297	Distance exceeds 200 nm AND Donor KDPI exceeds 35% AND Donor has any hx of hypertension	<u>None</u>
EEEE	167	Donor KDPI exceeds 40% AND Donor type is DCD	<u>None</u>

Option 3: Adjust each criteria

Center	Donors Impacted over 2 years	Model Identified Filter	Mandatory Filter
AAAA	483	Distance exceeds 325 nm AND Offer timing is post-cross clamp	Distance exceeds 575 nm AND <u>CIT at time of offer exceeds 5 hours</u>
BBBB	384	Donor KDPI exceeds 15% AND Offer timing is post-cross clamp	Donor KDPI exceeds 20% AND <u>CIT at time of offer exceeds 5 hours</u>
CCCC	331	Distance exceeds 125 nm AND CIT at time of offer exceeds 5 hours AND Donor age greater than 15 years	Distance exceeds 375 nm AND CIT at time of offer exceeds 10 hours AND Donor age greater than 20 years
DDDD	297	Distance exceeds 200 nm AND Donor KDPI exceeds 35% AND Donor has any hx of hypertension	Distance exceeds 450 nm AND Donor KDPI exceeds 40% AND Donor exceeds <u>5 years of hypertension</u>
EEEE	167	Donor KDPI exceeds 40% AND Donor type is DCD	Donor KDPI exceeds 45% AND Donor type is DCD <u>AND Distance exceeds 250 nm</u>

Next Steps

- The Committee will review feedback from public comment and make adjustments as needed to the proposed concepts

What do you think?

- Should OPTN policy promote increased filter use? If so, which option outlined in the concept paper do you support?
- What is the appropriate threshold for applying a filter?
- Should the filter be mandatory? If so, can a program request removal under certain circumstances?
- Should the filter be removable by the program? If so, should the filter reset if the center continues to decline the organs?
- Should certain hard to match candidates never be subject to having offers filtered?
- How often should the acceptance data be re-evaluated for transplant programs in order to adjust the model identified offer filters?