

Briefing to the OPTN Board of Directors on

Expedited Placement of Livers

OPTN Organ Procurement Organization Committee

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Expedited Placement of Livers

Affected Policies: 1.2: Definitions

5.3.D: Liver Acceptance Criteria

5.6.B: Time Limit for Review and Acceptance of Organ Offers

9.10.A: Expedited Liver Placement Acceptance Criteria

9.10.B: Expedited Liver Offers

Sponsoring Committee: Organ Procurement Organization
Public Comment Period: August 2, 2019 – October 2, 2019

Board of Director's Date: December 3, 2019

Executive Summary

Expedited organ placement has been an important part of organ allocation for many years. Organ Procurement Organizations (OPOs) utilize this method to quickly place organs that are at risk of not being used for transplant. OPTN policy does not explicitly address expedited placement, with the exception of *Policy 11.6: Facilitated Pancreas Allocation*. Consequently, during recent discussions regarding broader organ distribution and system optimization, the community expressed an interest in better understanding expedited placement and its role in addressing the issue of late liver turndowns. The goal of this proposal is to address the following issues related to expedited placement:

- Lack of transparency with the current process for expediting liver placement
- Lack of guidance for OPOs and transplant hospitals when livers are turned down in the donor OR
- Lack of consistent practice across the country

The OPO Committee submitted a proposal for public comment during the January-March 2019 cycle. The proposed policies would establish the following requirements for the expedited placement of livers:

- Transplant hospitals must enter candidate-level acceptance criteria to opt in to receive expedited liver offers
- OPOs can initiate expedited liver offers when the donor is in the OR *and* the OPO has been notified by the primary transplant hospital that they can no longer accept the liver. OPOs must enter the date/time for each of these events as well as the reason for the turndown.
- Transplant hospitals must respond to expedited liver offers within 20 minutes to be eligible to receive the liver
- OPOs must place the liver with the candidate with a provisional yes that appears highest on the

The main concerns raised during public comment were that initiating expedited placement from the donor operating room (OR) is too late in the process and 20 minutes for transplant hospitals to respond to expedited liver offers is not enough time. In response to public comment, the Committee made the decision to revise the proposal and clarify the process by which livers will be allocated using expedited placement. OPOs will have the ability to see expedited candidates on the original liver match run, which will allow for advance communication and planning in the event expedited placement is necessary. Finally, the previously proposed time limit of 20 minutes for transplant hospitals to respond to these offers has been changed to 30 minutes.



Purpose of Proposal

The issue of expedited placement has been addressed in several publications and editorials. In a 2012 editorial in the *American Journal of Transplantation*, Washburn et al¹ raised the same questions about utilization, equity, and transparency that are being addressed in this proposal. Kinkhabwala et al² recommended the development of policies governing expedited placement "in order to improve access to available organs."

Current OPTN policy addresses the facilitated placement of pancreata, but does not address the other organs when OPOs need to use expedited placement to avoid organ non-utilization. The absence of policy language creates the following problems:

- 1. Lack of transparency about how organs are placed when late turndowns occur
- 2. Lack of guidance for OPOs and transplant hospitals when there is a need to utilize expedited placement
- 3. Lack of consistent practice across the country, which could reduce access to organs

The goal of this proposal is to create a transparent system that addresses the above problems without compromising the ability to place and transplant livers. The current absence of policies require OPOs to justify any deviation from the match run when they use expedited placement. Additionally, OPOs might be reluctant to make additional liver placement efforts due to concerns about Membership and Professional Standards Committee (MPSC) review.

Background

Following the approval of this project, the Committee formed a joint Workgroup (hereafter referred to as the "Workgroup") with representation from the following committees:

- Liver and Intestinal Organ Transplantation Committee
- Membership and Professional Standards Committee
- Transplant Coordinators Committee

While the OPTN does not collect information on late turndowns in the donor operating room (OR), there was anecdotal evidence presented during Expedited Placement Workgroup discussions. Early reports from a study being conducted by the Association of Organ Procurement Organizations (AOPO) suggest the number of late turndowns throughout the U.S. could be quite significant. During its April 16, 2019 meeting³, the Committee was provided with an update on the study being conducted by AOPO. While this is an ongoing study and no formal results have been published, the data illustrate that late turndowns of livers is an issue. Data collected within the two years of the study from 38 of 58 OPOs showed 880 total declines in the OR. Among the 880 total declines, 243 livers cases were not recovered. There were 619 (70%) cases that were recovered with the intent to transplant, but there were only 323 (52%) which were actually transplanted. Among those organs that were transplanted, 165 (51%) of the cases were backup placements and 137 (42%) cases were expedited placements.

¹ Washburn K, Olthoff K. Truth and Consequences: The Challenge of Greater Transparency in Liver Distribution and Utilization. Am J Transplantation 2012; 12: 808-809.

² Kinkhabwala M, Lindower J, Reinus JF, Principe AL, Gaglio PJ. Expedited Liver Allocations in the United States: A Critical Analysis. Liver Transplantation 2013; 19: 1159-1165.

³ OPO Committee, Meeting Summary April 16, 2019, available at https://optn.transplant.hrsa.gov/media/2961/20190416_opo_-minutes.pdf



Additionally, as part of the Workgroup discussions, data showed that for expedited liver offers reviewed by the MPSC (476 over a two year period), 60% were associated with intra-operative turndowns.⁴

Overview of Proposal

This proposal will establish requirements for the expedited placement of livers. Expedited placement is not currently addressed in OPTN policy and this proposal will create a transparent and equitable process to quickly place livers turned down late in the process. This proposal establishes requirements for both transplant hospitals and OPOs.

Requirements for Transplant Hospitals

The Committee is proposing that transplant hospitals be allowed to "opt-in" to receive expedited liver offers. There was some discussion about creating a limit on the number of candidates eligible to receive expedited liver offers at each transplant hospital. However, the Workgroup eventually decided not to mandate such a limit at this time and allow transplant hospitals to make this determination based on the needs of their candidates. This proposal will require transplant hospitals to specify which of their candidates would be willing to accept an expedited offer. Workgroup members acknowledged that higher status candidates might not be ideal candidates for expedited liver offers, particularly if a liver is turned down late in the process due to organ quality. However, this will be left to the discretion of each transplant hospital. The Workgroup acknowledged that most transplant hospitals, including "nonaggressive" hospitals might initially opt-in to receive expedited offers. However, the hope is that transplant hospitals will seriously evaluate the criteria for each of their candidates.

The Workgroup discussed the acceptance criteria that must be entered by the transplant hospital in order to participate in expedited placement. The Workgroup members unanimously supported proposing a requirement that transplant hospitals agree to allow any procurement team to recover the liver, if necessary. In a late turndown scenario, there is usually limited time for the center accepting the expedited liver offer to send a team to recover the liver. Allowing the surgical team currently in the donor operating room or a local recovery team to procure the organ will allow for a more efficient process.

The other liver donor criteria identified by the Workgroup include the following:

- Minimum and maximum age
- Maximum body mass index (BMI)
- Maximum distance from the donor hospital to transplant hospital
- Minimum and maximum height
- Percentage of macrosteatosis
- Minimum and maximum weight

While current liver donor acceptance criteria includes minimum and maximum age and weight, maximum BMI, and willingness to accept a DCD donor for local and import offers, this proposal will require transplant hospitals to specify this criteria, as well as several others, for each candidate in order to receive expedited liver offers specifically. Transplant hospitals will also be allowed to enter the same or different criteria for donation after circulatory death (DCD) and donation after brain death (DBD) donors when they indicate the types of donors from which they would be willing to accept expedited liver offers.

⁴ Descriptive data request prepared for Aug. 28, 2017 Workgroup conference call.



This proposal will also require transplant hospitals to indicate the maximum distance from the donor hospital to the transplant hospital. The rationale for this being that transplant hospitals might not want to receive liver offers associated with a late turndown in the donor OR from certain distances. For example, a transplant hospital in New York might not want to receive expedited "late turndown in the OR" liver offers from a donor in California due to logistics or cold ischemia time (CIT).

Finally, this proposal will require transplant hospitals to indicate the percentage of macrosteatosis. This does not create a requirement for OPOs to perform liver biopsies or report this information. However, if the information is available at the time of the offer, it could provide useful information to help transplant hospitals make a decision on expedited liver offers and provide additional screening. Programming will allow OPOs to enter information on macrosteatosis if it is available at the time of the expedited liver offer.

OPOs Initiating Expedited Placement

This proposal does not establish a requirement for OPOs to initiate expedited placement if they can continue efforts to place the liver according to the match run. However, the proposal does establish policy requirements that address when OPOs can initiate expedited placement. The Spring 2019 public comment proposal established requirements that OPOs can initiate expedited liver placement efforts under two conditions. These include: 1) the donor being in the operating room, and 2) the host OPO being notified by the primary transplant hospital that the primary potential transplant recipient can no longer accept the liver. This proposal also adds a condition for DCD donors where the initiation of withdrawing life-sustaining medical support would qualify as one of the conditions. The rationale for this being that DCD donors are not always in the operating room when the withdrawal of life-sustaining medical support has been initiated.

One of the main concerns raised during the January-March 2019 public comment period was that initiating expedited placement in the donor OR was too late in the process. Several OPOs and regions commented about how they currently have efficient processes for expedited placement. This includes contacting transplant centers in advance of the scheduled donor OR to identify a center with a candidate available to accept a liver turned down in the OR. This process is not currently addressed in OPTN policy and may occur outside the standard backup offer process. If organ allocation does not follow the order of the match run, it is known as an "out of sequence allocation". This "out of sequence allocation" might be necessary in order to prevent a liver from not being utilized for transplant. However, any "out of sequence allocation" does require OPOs to provide a justification for review by allocation analysis staff and the MPSC.

One of the recommendations from public comment was to allow the expedited placement process to begin 2-3 hours prior to the scheduled donor organ recovery. The OPO Committee acknowledged that policy modifications would be required in order for this proposal to be accepted by the community. There was considerable discussion about how to modify policy language to accommodate this recommendation. In the end, the Committee agreed that it would be difficult to justify an arbitrary timeframe based on the scheduled donor organ recovery, which can change for a variety of reasons. The Committee agreed that allowing OPOs to see expedited liver candidates on the existing match run would be the most efficient approach. This will allow OPOs to evaluate the match run and make the necessary communications and arrangements in the event of a late turndown. The Committee also agreed that the conditions for initiating expedited placement outlined in this proposal need to be met before OPOs can send electronic expedited liver offers.



Expedited Liver Match Run

The Workgroup discussed the process for making expedited offers once the conditions have been met and the new screening has been applied to the original match run. The Workgroup members supported allowing transplant hospitals a limited amount of time to enter a response. The initial proposal set the response time limit at 20 minutes due to the urgency of placing expedited livers following a late turndown. During the initial public comment period there was considerable concern raised that 20 minutes was too short. The Committee discussed this comment and agreed to increase the time limit to 30 minutes.

The Workgroup discussed the number of transplant hospitals that could receive expedited liver offers and agreed that the current notification limits should be increased. Currently, the system allows OPOs to set limits for the maximum number of electronic organ offer notifications that can be sent to transplant center organ programs for local candidates. For non-local (regional/national) transplant centers, the maximum number of notifications is set by the system at 3 pre-recovery and 5 post-recovery. Allowing OPOs to identify expedited candidates on the match run will allow them to determine how many transplant hospitals should receive the offer, without limits, in order to get the liver placed as quickly as possible.

In addition, the Workgroup discussed who would receive an expedited liver offer. There was a recommendation to create a new on-call representative in the contact management section within UNet specifically for expedited offers. This will give transplant hospitals the ability to designate "decision-makers" to receive the expedited offers in order to get a quicker decision on the offer. This would not be mandatory option if transplant hospitals believe that their current process of receiving organ offers is sufficient to meet their needs.

The following is an overview of how the process will be operationalized:

The expedited placement pathway will use the following rules:

- Must have an acceptance on the original current liver match run
- Electronic offers will be sent using the original current match run.

When the host OPO changes a previous acceptance for the primary potential transplant recipient to a refusal, the following questions will be displayed:

- 1. Has the donor entered the OR or DCD withdrawal occurred?
 - If no, the OPO will enter the refusal and save.
 - If yes, the OPO will answer question #2.
- 2. Would you like to initiate expedited placement?
 - If no, the OPO will enter the refusal and save.
 - If yes, the OPO will be required to enter the following information:
 - Date/time donor entered the OR. For DCD donors, date/time withdrawal of support was initiated. *Note:* DCD donor fields will be available based on information entered in the donor record.
 - Date/time host OPO notified of turndown.
 - The OPO user will then select "save and initiate expedited placement" and the match results will change and dynamic screening will occur.

Additional rules to be applied when the expedited offer process is initiated:

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- Existing provisional yes responses for candidates who have opted-in to receive expedited liver offers will remain on the match run. These candidates will receive another notification for an expedited liver offer.
- Candidates with a previous provisional yes response who have not opted-in to receive expedited liver offers will be bypassed.
- Candidates who have already refused will maintain their refusal regardless of whether they have opted-in to receive expedited liver offers.
- Candidates who have not opted-in to receive expedited liver offers, and who have not received an offer, will be bypassed.
- Candidates who should receive expedited liver offers will remain on the match run.
- All new electronic offers will have 30 minutes to respond. If no response is entered, the system will automatically enter a response of "exceeded time limit." The proposed policy will require the host OPO to place the liver with the candidate with a provisional yes response that appears highest on the match run.

The Committee recognized that transplant hospitals would need to understand that provisional yes responses to expedited liver offers are not a guarantee they will eventually receive the liver. Additionally, these offers will be made based on the deceased donor information available at the time of the offer. *Policy 2.11: Required Deceased Donor Information* addresses the information that needs to be provided for each potential deceased donor. The urgent need to get the liver placed does not allow time for transplant hospitals to request additional information.

Community Feedback

During public comment, all eleven regions supported the proposal as written. The total sentiment votes for all the regions combined were 52 strongly support, 139 support, 25 neutral/abstain, 12 oppose, 13 strongly oppose.

The following OPTN Committees reviewed the proposal: Liver and Intestine Transplantation, Data Advisory, Membership and Professional Standards, Transplant Coordinators, Operations and Safety, Ethics and Pancreas Transplantation. All were supportive of the proposal and provided comments and recommendations consistent with the regional and individual comments.

The proposal also garnered feedback and support from four individuals, nine organizations, and five professional societies on the OPTN website.

- American Society of Transplantation (AST)
- American Society of Transplant Surgeons (ASTS)
- Association of Organ Procurement Associations (AOPO)
- The Organization for Transplant Professionals (NATCO)
- Society for Pediatric Liver Transplant
- Indiana Donor Network
- Donor Alliance
- LifeGift
- LifeShare Transplant Donor Services of Oklahoma
- OneLegacy
- Carolina Donor Services
- UW Organ & Tissue Donation
- New England Donor Services



UC San Diego Center for Transplantation

Table 1 illustrates the overall sentiment as well as the sentiment by organization type:

Table 1: Overall Sentiment, by Organization Type

	Total Votes	Strongly Support	Support	Neutral/Abstain	Oppose	Strongly Oppose
Overall	270	24%	58%	9%	4%	5%
Transplant						
Hospital	180	17%	63%	13%	3%	4%
Organ						
Procurement	60	48%	36%	0%	7%	8%
Organization						
Histocompatibility	14	79%	0%	0%	7%	7%
Lab						
Patient	9	0%	56%	22%	11%	0%
Stakeholder	6	17%	83%	0%	0%	0%
Organization	6	1/%	0370	U70	U%	070
General Public	1	100%	0%	0%	0%	0%

The Committee identified several themes during public comment. The themes, and the Committee's response, are detailed below:

- 1. Monitoring policy change The most frequent comment was that the OPO Committee should actively monitor how the system is working. Members should be monitored to ensure that both OPOs and transplant hospitals are complying with the new requirements. Examples include "the OPTN should monitor liver programs that are not accepting livers but have opted to participate in expedited placement" and when OPOs are initiating expedited placement to ensure viable backup recipients are not disadvantaged. The Committee has a robust monitoring plan and will review initial data at 6 and 12 months post-implementation.
- 2. Opting in There were several comments expressing concern that every transplant hospital will opt in to receive expedited liver offers and this will impact the efficiency of organ placement. The Committee previously discussed placing limits on the number of candidates each transplant hospital could opt in to receive expedited offers but ultimately decided to take the approach of requiring the opt-in for every candidate for both DCD and DBD donors.
- 3. Logistics There were several comments about logistics, including delaying cross clamp and offers being sent directly to "decision makers." The Committee did not want to mandate delaying cross clamp in order to allow for individual processes. The Committee is working with UNOS Information Technology staff to evaluate the feasibility of creating a separate "contact" for expedited placement.
- 4. *Transparency and consistency* Several commenters appreciated the Committee's effort to create a transparent system that provides a more consistent use of expedited placement.
- 5. DonorNet improvements Several commenters recommended DonorNet changes that will allow for more transparency about transplant centers accepting multiple organs and to monitor centers not responding within the 30-minute timeframe. Additionally, there was a recommendation to create more descriptive decline codes in DonorNet. The Committee



- understands the need to make improvements to DonorNet but this falls outside the scope of this proposal.
- 6. Initiating expedited placement There were two comments noting that initiating expedited placement in the donor OR was too late in the process. The Committee discussed this comment following the Spring 2019 public comment period and agreed that it would be difficult to establish an arbitrary timeframe (e.g. 2 hours) prior to entering the donor OR. The Committee believes that making programming changes to allow for the identification of expedited candidates on the liver match run will allow for advanced planning in the event of a late turndown.

The OPO Committee reviewed and discussed the results of public comment during its October 10, 2019 meeting and unanimously supported the policy language as proposed with no post-public comment changes.

Compliance with the Final Rule and NOTA

The OPTN Final Rule⁵ sets requirements for allocation policies developed by the OPTN. This proposal complies with the following aspects of the Final Rule:

- Shall be based on sound medical judgment by allowing transplant programs to determine which of their candidates might benefit from a liver turned down late in the process.
- Shall preserve the ability of a transplant program to decline an offer of an organ or not to use the organ for the potential recipient in accordance with §121.7(b) (4) (d) and (e).
- Shall be designed to avoid wasting organs by establishing an efficient placement process for livers turned down late in the process.
- Shall be designed to promote patient access to transplantation by establishing a system where candidates willing to accept expedited livers offers will have access to such offers.
- Shall be designed to promote the efficient management of organ placement by establishing a process for OPOs to send expedited offers when livers are turned down late in the process. There was some concern raised that the proposed policies will lead to a less efficient system and potentially increase incidents of organs recovered but not transplanted by creating additional steps for expedited placement. However, the Workgroup and the Committee has worked diligently to propose a system that will be as efficient as possible while also promoting access based on the medical judgment of the candidate's healthcare team.

Alignment with OPTN Strategic Plan

- Increase the number of transplants: This proposal has the potential to increase the number of transplants and reduce discards by standardizing expedited placement practices across OPOs and allowing expedited liver placement to occur according to OPTN policy.
- Improve equity in access to transplants: This proposal could increase access to transplants by requiring OPOs to offer organs to transplant hospitals that were previously bypassed during expedited placement.
- Promote the efficient management of the OPTN: This proposal creates an expedited placement
 process in policy that has not existed until now. This proposal will increase the efficient
 management of the OPTN by reducing the number of cases being reviewed by UNOS staff and
 the MPSC.

5 42 C.F.R §121.8



Potential Fiscal Impact of Proposal

National standardization of an expedited liver placement process may create overall cost efficiency for both transplant centers and OPOs in the long term. This proposal can allow livers to be placed more quickly, and therefore result in less cold ischemic time.

Transplant centers will require minimal time to train staff on additional steps to opt in to expedited placement and receive expedited liver offers. Implementation time is estimated to be about one month. The process may require slightly more time per patient to explain this process to candidates. No additional costs associated with this proposal are identified, but any associated costs that may occur can be claimed by centers for care reimbursement.

OPO staff can implement this change almost immediately, allowing for greater efficiency in liver placement and a possible decrease in discarded livers.

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The programming to implement this proposal is an enterprise-level effort, estimated at 7,400 hours, includes 10-12 system changes. This effort adds 21 fields in Waitlist, and creates other workflow adjustments. Notification limits and contact management for expedited livers will also be adjusted.

Implementation will also include educational efforts and well-timed communications, led by Professional Education and Communications, to prepare members for the changes. Implementation and ongoing efforts are estimated at 1000 hours for Policy and Community Relations, Communications, Member Quality, Research, and Professional Education. This includes participating in implementation meetings, education efforts, and post-implementation monitoring.

Implementation and Operational Considerations

Overview

This proposal will require programming in UNetSM as outlined below and is estimated to be a very large effort. If approved by the Board of Directors, the programming will be added to the schedule of work (e.g. IT roadmap) and prioritized accordingly.

- A new field will be added to the acceptance criteria section on the Liver Candidate record in WaitlistSM to allow centers to distinguish specific candidates willing to accept expedited liver offers as part of a candidate's liver acceptance criteria. In addition, transplant programs will have to designate their macrosteatosis percentage acceptance levels on the Waitlist.
 Macrosteatosis percentage will also be added to the Liver Biopsy section in the Organ Data tab within DonorNet[®] for OPO entry. Transplant programs will be required to specify on a candidateby-candidate basis which specific expedited placement criteria they would be willing to accept.
- New designation fields will appear on a liver match run distinguishing which candidates are
 willing to accept an expedited liver offer. Upon refusal of a previously accepted liver, a new
 workflow on the original match run will request specific information from the OPO user
 regarding the expedited liver placement rules set forth in policy: date/time the host OPO was
 notified of refusal by the primary transplant hospital, date/time the donor has either entered



the operating room or withdrawal of support has occurred for a DCD donor, and macrosteatosis if not available at the time of the offer and if not entered into the Organ Data tab. After this limited required information has been entered, and the policy criteria are met, new screening will appear on the original liver match run. This screening will adjust the match run specific to those candidates willing to accept an expedited liver match and who do not screen for macrosteatosis percentage.

The Committee plans to work with the UNOS Professional Education department to develop educational materials for this proposal if approved by the Board of Directors. Communications will be sent to the community to promote awareness related to policy and system changes in advance of implementation.

DonorNet and Waitlist changes do not currently require approval by the federal Office of Management and Budget (OMB).

Member actions

Transplant Hospitals

This will impact how livers are offered to transplant hospitals during expedited placement. Transplant hospitals should develop processes to ensure that decision makers are aware of abbreviated timeframe to accept these offers. Transplant hospitals will need to be aware of the acceptance criteria information that must be entered for liver candidates in order to receive expedited liver offers.

OPOs

This will affect how OPOs allocate livers using expedited placement. OPO staff will need to participate in educational offerings to prepare for this change. OPOs staff will be able to identify expedited placement candidates on the original liver match run and must follow requirements for initiating expedited liver offers and sending electronic offers.

Post-implementation Monitoring

Member compliance

In addition to the monitoring described below, all policy requirements and data entered in UNet may be subject to OPTN review, and members are required to provide documentation as requested.

UNOS staff will continue to review all deceased donor match runs that result in a transplanted organ to ensure that allocation was carried out according to OPTN policy. Staff will also continue to inquire with OPOs when they enter bypass codes in order to allocate the organ out of sequence on the match run. If a transplanted liver is allocated using the proposed process for expedited placement of livers, staff will request documentation to verify the accuracy of the dates and times entered to initiate the expedited placement process according to *Policy 9.10.B: Expedited Liver Offers*.

Policy evaluation

The OPTN will assess the impact of these policy changes at 6 months and 12 months post-implementation. Analyses beyond 12 months will be performed at the request of the Committee. There is currently no accurate way in the OPTN system to assess how often a liver is turned down in the OR. As a result, much of the analyses will be "point forward" analyses and can be used as a benchmark to assess changes in the future. The OPTN will perform analyses to study the following:



Overall

- The number and percent of in-OR refusals
- The number and percent of in-OR refusals that result in a transplanted liver
- The number and percent of in-OR refusals that result in a liver recovered but not transplanted
- The reasons reported for the in-OR refusal
- The characteristics of liver donors that have an in-OR refusal

• By OPO

- The number and percent of in-OR refusals
- The number and percent of in-OR refusals that result in a transplanted liver
- The number and percent of in-OR refusals that result in a liver recovered but not transplanted
- The reasons reported for the in-OR refusal

• By Transplant Program

- The number and percent of livers refused in-OR
- · Refusal reasons for livers refused in-OR
- Distribution of candidates listed as willing to accept an expedited (in-OR) liver
- Number and percent of expedited acceptances transplanted
- Number and percent of expedited acceptances not transplanted
- Acceptance rates for expedited (in-OR) liver offers

The OPTN will assess the overall impact of these policy changes using a pre vs. post analysis at 6 months and 12 months after implementation. Analyses beyond 12 months will be performed at the request of the Committee.

- Liver utilization rates pre vs. post implementation
- Liver discard rates pre vs. post implementation
- Liver transplant volumes pre vs. post implementation
- Out of sequence liver placements pre vs. post implementation

Conclusion

The intent of this proposal is to create policies addressing the expedited placement of livers that are declined in the donor OR. The current absence of policies creates a lack of transparency, lack of equity in access, and lack of guidance for OPOs and transplant hospitals. This proposal establishes a system that allows OPOs to send electronic expedited liver offers to transplant hospitals with candidates that have opted in to receive expedited liver offers. This proposal received considerable support during public comment, including all regions, individuals, organizations, and committee that reviewed the proposal. The OPO Committee reviewed the community sentiment and comment themes during its October 10, 2019 meeting and unanimously approved the policy language as proposed with no post-public comment changes.



Policy Language

Proposed new language is underlined (<u>example</u>) and language that is proposed for removal is struck through (example). Heading numbers, table and figure captions, and cross-references affected by the numbering of these policies will be updated as necessary.

1.2 Definitions

Organ offer acceptance

When the transplant hospital notifies the host OPO that <u>it</u> they accepts the organ offer for an intended recipient, pending review of organ anatomy. For kidney, acceptance is also pending final crossmatch.

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5.3.D Liver Acceptance Criteria

The responsible transplant surgeon must determine the acceptable deceased donor weight for each of its liver candidates, and the determined acceptable weight must be reported to the OPTN Contractor.

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Liver transplant programs may also specify additional liver acceptance criteria, including any of the following:

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- 1. The maximum number of mismatched antigens it will accept for any of its liver candidates
- 14 2. Minimal acceptance criteria for livers
 - 3. Acceptance criteria for expedited offers as outlined in *Policy 9.10.A: Expedited Placement Acceptance Criteria*
 - 3. 4. If a blood type O candidate will accept a liver from a deceased donor with blood type A, non- A1
 - 4. <u>5.</u> For status 1A or 1B candidates, if they will accept a liver from a deceased donor with any blood type
 - 5. 6. If a candidate with a Model for End-Stage Liver Disease (MELD) or Pediatric End Stage Liver Disease (PELD) score of at least 30 will accept a liver from a deceased donor with any blood type
 - 6.7. If a candidate will accept a liver for other methods of hepatic support
 - 7.8. If a candidate is willing to accept a segmental graft
 - 8. 9. If a candidate is willing to accept an HIV positive liver as part of an institutional review board approved research protocol that meets the requirement in the OPTN Final Rule

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5.6.B Time Limit for Review and Acceptance of Organ Offers

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This policy does not apply to expedited liver offers as outlined in *Policy 9.10.B: Expedited Liver Offers*

31 32 A transplant hospital has a total of one hour after receiving the initial organ offer notification to access the deceased donor information and submit a provisional yes or an organ offer refusal.

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Once the host OPO has provided all the required deceased donor information according to Policy 2.11: Required Deceased Donor Information, with the exception of organ anatomy and recovery information, the transplant hospital for the initial primary potential transplant recipient must respond to the host OPO within one hour with either of the following:

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- An organ offer acceptance
- An organ offer refusal

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- All other transplant hospitals who have entered a provisional yes must respond to the host OPO within 30 minutes of receiving notification that their offer is for the primary potential transplant recipient with either of the following:
 - An organ offer acceptance
 - An organ offer refusal

9.10 Expedited Placement of Livers

9.10.A Expedited Liver Placement Acceptance Criteria

In order for a liver candidate to receive expedited offers as outlined in *Policy 9.10.B: Expedited Liver Offers*, the transplant hospital must report *all* of the following information to the OPTN Contractor:

<u>2.</u> The following liver acceptance criteria:

The following liver acceptance criteria:

O Minimum and maximum age

Maximum body mass index (BMI)

o Maximum distance from the donor hospital

1. Agreement to accept a liver recovered by any procurement team

 Minimum and maximum heightPercentage of macrosteatosis

Minimum and maximum weight

9.10.B Expedited Liver Offers

The host OPO or the Organ Center is permitted to make expedited liver offers if both of the following conditions are met:

1. The donor has entered the operating room or, in the case of a DCD donor, withdrawal of life sustaining medical support has been initiated, whichever occurs first.

2. The host OPO or Organ Center is notified by the primary transplant hospital that the primary potential transplant recipient will no longer accept the liver.

<u>Prior to sending expedited liver offers, the host OPO or Organ Center must report all of the following information to the OPTN Contractor:</u>

1. Date and time donor entered the operating room or withdrawal of life sustaining medical support was initiated, whichever occurs first.

Date and time host OPO was notified by the primary transplant hospital that they will no longer accept the liver offer for the primary potential transplant recipient.
 Reason for organ offer refusal by the primary potential transplant recipient.

Expedited liver offers will be made to potential transplant recipients on the match run who are eligible to receive expedited liver offers as described in *Policy 9.10.A: Expedited Liver Placement Acceptance Criteria*.

<u>Transplant hospitals must accept an expedited offer within 30 minutes of notification to be eligible to receive the liver. Once this time limit has expired, the host OPO or Organ Center must place the liver with the potential transplant recipient with the provisional yes that appears highest on the match run.</u>

OPTN

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