OPTN Liver and Intestinal Organ Transplantation Committee

Winter 2022
Committee Update

- Acuity Circles: 18 Month Monitoring Report Highlights
- Ongoing Review of National Liver Review Board (NLRB) Diagnoses
- Project Updates
Acuity Circles

18 Month Monitoring Report Highlights
Cohorts

- 18 months pre- and post-AC implementation
- **Pre-Policy:** 8/6/2018-2/3/2020
- **Post-Policy:** 2/4/2020-8/3/2021

- Analysis based on OPTN data as of November 19, 2021
# National Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Age Group</th>
<th>Pre-Policy</th>
<th>Post-Policy</th>
<th>Difference (Post-Pre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waitlist Additions</td>
<td>Adult (18+ at listing)</td>
<td>18,824</td>
<td>19,272</td>
<td>448</td>
</tr>
<tr>
<td></td>
<td>Pediatric (&lt;18 at listing)</td>
<td>1,028</td>
<td>945</td>
<td>-83</td>
</tr>
<tr>
<td>Waitlist Removals for Death/Too Sick</td>
<td>Adult (18+ at listing)</td>
<td>3,077</td>
<td>2,956</td>
<td>-121</td>
</tr>
<tr>
<td></td>
<td>Pediatric (&lt;18 at listing)</td>
<td>55</td>
<td>43</td>
<td>-12</td>
</tr>
<tr>
<td>Deceased Donor Liver-Alone Transplants</td>
<td>Adult (18+ at transplant)</td>
<td>10,436</td>
<td>11,006</td>
<td>570</td>
</tr>
<tr>
<td></td>
<td>Pediatric (&lt;18 at transplant)</td>
<td>604</td>
<td>600</td>
<td>-4</td>
</tr>
<tr>
<td>Liver Multi-Organ Transplants</td>
<td>All Ages</td>
<td>1,240</td>
<td>1,344</td>
<td>104</td>
</tr>
<tr>
<td>Liver Donors Recovered</td>
<td>Adult (18+ at donation)</td>
<td>12,485</td>
<td>13,244</td>
<td>759</td>
</tr>
<tr>
<td></td>
<td>Pediatric (&lt;18 at donation)</td>
<td>1,056</td>
<td>1,032</td>
<td>-24</td>
</tr>
</tbody>
</table>
Cumulative Incidence of Transplant for Liver Waitlist Additions by MELD or PELD Score or Status and Era

Days Since Listing

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
Cumulative Incidence of Removal for Death/Too Sick for Liver Waitlist Additions by MELD or PELD Score or Status and Era

Era  Pre  Post

Status 1A/1B

MELD 37-40

MELD 33-36

MELD 29-32

MELD 15-28

MELD < 15

Cumulative Incidence of Death

Days Since Listing

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
Adult Liver-Alone Registrations Removed for Death/Too Sick by MELD Score or Status Group and Era

Score or Status Group

Era  Pre  Post
Pediatric Liver-Alone Registrations Removed for Death/Too Sick by MELD or PELD Score or Status Group

Score or Status Group

Era  Pre  Post

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
Pediatric Liver-Alone Registrations Removed for Death/Too Sick by Age at Listing and Era

Adult Deceased Donor Liver-Alone Transplants by OPTN Region and Era

Number of Deceased Donor Liver-Alone Transplants

OPTN Region

<table>
<thead>
<tr>
<th>Era</th>
<th>Pre</th>
<th>Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>385</td>
<td>444</td>
</tr>
<tr>
<td>2</td>
<td>1111</td>
<td>1082</td>
</tr>
<tr>
<td>3</td>
<td>1838</td>
<td>1764</td>
</tr>
<tr>
<td>4</td>
<td>1105</td>
<td>1123</td>
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<tr>
<td>5</td>
<td>1631</td>
<td>1774</td>
</tr>
<tr>
<td>6</td>
<td>346</td>
<td>323</td>
</tr>
<tr>
<td>7</td>
<td>821</td>
<td>965</td>
</tr>
<tr>
<td>8</td>
<td>637</td>
<td>650</td>
</tr>
<tr>
<td>9</td>
<td>501</td>
<td>721</td>
</tr>
<tr>
<td>10</td>
<td>982</td>
<td>1076</td>
</tr>
<tr>
<td>11</td>
<td>1079</td>
<td>1084</td>
</tr>
</tbody>
</table>

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
Pediatric Deceased Donor Liver-Alone Transplants by OPTN Region and Era

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
Adult Deceased Donor Liver-Alone Transplants by Allocation MELD Score/Status and Era

Pediatric Deceased Donor Liver-Alone Transplants by Allocation MELD or PELD Score or Status and Era

Adult Deceased Donor Liver-Alone Transplants by Allocation MELD Score or Status, Donor Type, and Era

<table>
<thead>
<tr>
<th>Status 1A</th>
<th>MELD 37-40</th>
<th>MELD 33-36</th>
<th>MELD 29-32</th>
<th>MELD 15-28</th>
<th>MELD 6-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre</td>
<td>Post</td>
<td>Pre</td>
<td>Post</td>
<td>Pre</td>
<td>Post</td>
</tr>
<tr>
<td>97.8%</td>
<td>98.7%</td>
<td>98.5%</td>
<td>99.3%</td>
<td>98.1%</td>
<td>99.1%</td>
</tr>
<tr>
<td>12%</td>
<td>1.3%</td>
<td>1.5%</td>
<td>0.7%</td>
<td>13.2%</td>
<td>0.6%</td>
</tr>
<tr>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

% of Deceased Donor Liver-Alone Transplants

Donor Type: DCD (Dark Blue), DBD (Green)

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
Distribution of Distance from Donor Hospital to Transplant Program for Adult Deceased Donor Liver-Alone Transplant by Era

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
** Dotted lines indicate median distance within each era.
*** There were 24 pre-policy and 24 post-policy transplants with distance >1500 NM not included.
Distribution of Cold Ischemia Time for Adult Deceased Donor Liver-Alone Transplants by Era


*** There were 46 pre-policy and 138 post-policy transplant recipients with missing cold ischemia time that are not included.

^ There were 22 pre-policy and 32 post-policy transplants with cold ischemia time >15 hours not included.
Pediatric Deceased Donor Liver-Alone Transplants by Procedure Type and Era

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
Rate of Liver Donors Recovered and Not Transplanted (Discard Rate) by OPTN Region and Era

Pre-Policy: 08/06/2018 - 02/03/2020; Post-Policy: 02/04/2020 - 08/03/2021.
One Year Post-Transplant Patient Survival Curves for Deceased Donor Liver-Alone Recipients by Era


Pre-Policy: 08/06/2018 - 07/31/2019; Post-Policy: 02/04/2020 - 01/31/2021.
Full report is available on the OPTN website: [https://optn.transplant.hrsa.gov/professionals/by-organ/liver-intestine/](https://optn.transplant.hrsa.gov/professionals/by-organ/liver-intestine/)
Ongoing Review of NLRB Diagnoses
Purpose of Proposal

- Purpose:
  - Ensure NLRB guidance and policy remain clear and aligned with current research so that the appropriate candidates receive MELD or PELD exceptions
Proposal: Hepatocellular Carcinoma (HCC) Policy and Guidance

- HCC Policy:
  - Update policy language to align with Liver Imaging Reporting and Data System (LIRADS) terminology and classifications
  - Ensure consistent classification of HCC lesions

- HCC Guidance:
  - Simplify guidance for candidates who had HCC that was treated and subsequently recurs
  - Provide more consistent and equitable pathway for these candidates to receive a MELD exception
Proposal: Ischemic Cholangiopathy (IC)
Guidance

- Recommend all candidates meeting criteria in guidance be provided a score equal to median MELD at transplant (MMaT)
- No changes to criteria for exception
- Higher score assignment will allow candidates to access re-transplant more quickly
Proposal: Polycystic Liver Disease (PLD) Guidance

- Add more *objective definition for moderate to severe protein calorie malnutrition*
- Add *sarcopenia* as a qualifying comorbidity
- Remove unnecessary and confusing language
- Recommend all candidates meeting criteria be considered for **MMaT**, not just liver-kidney
Project Updates
Project Updates

- Median MELD at Transplant around Donor Hospital and Update Sorting for Liver Allocation:
  - Approved by the OPTN Board of Directors in June 2021
  - Slated for implementation in June 2022

- Continuous Distribution:
  - Project kick-off: December 2021
  - Updates to come at future regional meetings
Questions?