

*Notice of OPTN Policy Changes*

# Access for Urgent Liver Candidates in Hawaii and Puerto Rico

**Sponsoring Committee:****Policies Affected:****Liver and Intestinal Organ Transplantation****9.8.E: Allocation of Livers from Non-DCD Deceased Donors at Least 18 Years Old and Less than 70 Years Old****9.8.F: Allocation of Livers from Non-DCD Deceased Donors 11 to 17 Years Old****9.8.G: Allocation of Livers from Non-DCD Deceased Donors Less than 11 Years Old****9.8.I: Allocation of Liver-Intestines from Non-DCD Deceased Donors at Least 18 Years Old and Less than 70 Years Old****9.8.J: Allocation of Liver-Intestines from Non-DCD Donors Less than 11 Years Old****9.11.D: Closed Variance for Liver Transplantation in Hawaii and Puerto Rico****Public Comment:****Executive Committee Approved:****Effective Date:****December 5, 2019 – January 9, 2020****January 16, 2020****Pending implementation and notice to OPTN members**

## Purpose of Proposal

Under the Acuity Circle policy, highly urgent liver candidates listed in Hawaii and Puerto Rico may not be offered a deceased donor liver of compatible blood type within the necessary timeframe due to the geographic isolation of the two islands.<sup>1</sup> This variance will improve timely access to donors for candidates listed as Status 1A, Status 1B, or with a model for end stage liver disease (MELD) or pediatric end-stage liver disease (PELD) score of 37 or higher in Hawaii and Puerto Rico. It will provide additional access to donors that become available in the closest parts of the continental United States by creating additional geographic units of 1,100 NM and 2,400 NM for candidates in Puerto Rico and Hawaii respectively. Candidates listed at the transplant programs in Hawaii and Puerto Rico will receive offers for livers from donor hospitals within these distances of the transplant program right after candidates of similar medical urgency within 500 NM of those donor hospitals.

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<sup>1</sup> Liver and Intestine Distribution Using Distance from Donor Hospital, OPTN/UNOS Liver and Intestinal Transplantation Committee, December 2018, [https://optn.transplant.hrsa.gov/media/2766/liver\\_boardreport\\_201812.pdf](https://optn.transplant.hrsa.gov/media/2766/liver_boardreport_201812.pdf).

## Proposal History

In December 2018, the OPTN Board of Directors (the Board) approved the Acuity Circles policy, which changed the units of distribution used in the allocation of deceased donor livers from donation service areas (DSAs) and OPTN Regions to a series of concentric circles.<sup>2</sup>

Questions about what impact the Acuity Circles policy would have on medically urgent candidates in Hawaii and Puerto Rico were initially raised during public comment for the allocation changes. The Committee subsequently formed a work group to evaluate the scope of the issue and develop a solution. The work group proposed the variance, which was then discussed and approved by the OPTN Liver and Intestinal Organ Transplantation Committee (the Committee). The variance was posted for special public comment from December 5, 2019 to January 9, 2020. The variance was supported throughout public comment. On January 10, 2020 the Committee voted to send the variance for consideration to the Executive Committee. The Executive Committee discussed and approved the variance on January 16, 2020.

## Summary of Changes

The solution approved by the Executive Committee is a variance that will create additional geographic units that only apply for candidates listed in Hawaii or Puerto Rico who are in urgent need of a liver transplant in order to broaden the pool of donors for whom these candidates would be likely to receive offers in a timely manner. For candidates in Hawaii, there will be an additional unit of distribution at 2,400 NM. For candidates in Puerto Rico, there will be an additional unit of distribution at 1,100 NM. These additional units of distribution will be incorporated into OPTN policy as new allocation classifications that follow allocation classifications for candidates of similar medical urgency within 500 NM of the donor hospital.

The variance will be evaluated annually and will expire after five years. It will only be implemented if the Acuity Circle policy is implemented.

## What Members Need to Do

OPOs will continue to follow the match run when allocating livers and liver-intestines. OPOs that serve donor hospitals within 2,400 NM of Hawaii or 1,100 NM of Puerto Rico may work with the transplant programs in Hawaii or Puerto Rico more often, though the volumes of candidates affected by this proposed variance are expected to be low.

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<sup>2</sup> Liver and Intestine Distribution Using Distance from Donor Hospital, OPTN/UNOS Liver and Intestinal Transplantation Committee, December 2018, [https://optn.transplant.hrsa.gov/media/2766/liver\\_boardreport\\_201812.pdf](https://optn.transplant.hrsa.gov/media/2766/liver_boardreport_201812.pdf).

## Affected Policy Language

New language is underlined (example) and language that is deleted is struck through (~~example~~).

1 **9.8 Liver Allocation, Classifications, and Rankings**

2 **9.8.E Allocation of Livers from Non-DCD Deceased Donors at Least 18 Years Old and**  
 3 **Less than 70 Years Old**

4 Livers from non-DCD deceased donors at least 18 years old and less than 70 years old are  
 5 allocated to candidates according to *Table 9-11* below.

6 **Table 9-11: Allocation of Livers from Non-DCD Deceased Donors**  
 7 **at Least 18 Years Old and Less than 70 Years Old**

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
1	Status 1A	500NM	Any	Any
2	Status 1B	500NM	Any	Any
<u>3</u>	<u>Status 1A</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>4</u>	<u>Status 1B</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>5</u>	37	150NM	O	O or B
<u>6</u>	37	150NM	Non-O	Any
<u>7</u>	37	250NM	O	O or B
<u>8</u>	37	250NM	Non-O	Any
<u>9</u>	37	500NM	O	O or B
<u>10</u>	37	500NM	Non-O	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>11</u>	<u>37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>
<u>12</u>	<u>37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>
<u>13</u>	33	150NM	O	O or B
<u>14</u>	33	150NM	Non-O	Any
<u>15</u>	33	250NM	O	O or B
<u>16</u>	33	250NM	Non-O	Any
<u>17</u>	33	500NM	O	O or B
<u>18</u>	33	500NM	Non-O	Any
<u>19</u>	30	150NM	O	O or B
<u>20</u>	29	150NM	O	O
<u>21</u>	29	150NM	Non-O	Any
<u>22</u>	30	250NM	O	O or B
<u>23</u>	29	250NM	O	O
<u>24</u>	29	250NM	Non-O	Any
<u>25</u>	30	500NM	O	O or B
<u>26</u>	29	500NM	O	O
<u>27</u>	29	500NM	Non-O	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>28</u>	15	150NM	O	O
<u>29</u>	15	150NM	Non-O	Any
<u>30</u>	15	250NM	O	O
<u>31</u>	15	250NM	Non-O	Any
<u>32</u>	15	500NM	O	O
<u>33</u>	15	500NM	Non-O	Any
<u>34</u>	Status 1A	Nation	Any	Any
<u>35</u>	Status 1B	Nation	Any	Any
<u>36</u>	30	Nation	O	O or B
<u>37</u>	15	Nation	O	O
<u>38</u>	15	Nation	Non-O	Any
<u>39</u>	Any	150NM	O	O
<u>40</u>	Any	150NM	Non-O	Any
<u>41</u>	Any	250NM	O	O
<u>42</u>	Any	250NM	Non-O	Any
<u>43</u>	Any	500NM	O	O
<u>44</u>	Any	500NM	Non-O	Any
<u>45</u>	Any	Nation	O	O
<u>46</u>	Any	Nation	Non-O	Any
<u>47</u>	29	150NM	O	B
<u>48</u>	29	250NM	O	B

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>49</u>	29	500NM	O	B
<u>50</u>	15	150NM	O	B
<u>51</u>	15	250NM	O	B
<u>52</u>	15	500NM	O	B
<u>53</u>	15	Nation	O	B
<u>54</u>	Any	150NM	O	B
<u>55</u>	Any	250NM	O	B
<u>56</u>	Any	500NM	O	B
<u>57</u>	Any	Nation	O	B
<u>58</u>	37	150NM	O	A or AB
<u>59</u>	37	250NM	O	A or AB
<u>60</u>	37	500NM	O	A or AB
<u>61</u>	33	150NM	O	A or AB
<u>62</u>	33	250NM	O	A or AB
<u>63</u>	33	500NM	O	A or AB
<u>64</u>	29	150NM	O	A or AB
<u>65</u>	29	250NM	O	A or AB
<u>66</u>	29	500NM	O	A or AB
<u>67</u>	15	150NM	O	A or AB
<u>68</u>	15	250NM	O	A or AB
<u>69</u>	15	500NM	O	A or AB

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>70</u>	15	Nation	O	A or AB
<u>71</u>	Any	150NM	O	A or AB
<u>72</u>	Any	250NM	O	A or AB
<u>73</u>	Any	500NM	O	A or AB
<u>74</u>	Any	Nation	O	A or AB
<u>75</u>	Status 1A, for other method of hepatic support	Nation	Any	Any
<u>76</u>	Status 1B, for other method of hepatic support	Nation	Any	Any
<u>77</u>	Any MELD or PELD for other method of hepatic support	Nation	Any	Any

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**9.8.F Allocation of Livers from Non-DCD Deceased Donors 11 to 17 Years Old**

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Livers from non-DCD deceased donors 11 to 17 years old are allocated to candidates according to *Table 9-12* below.

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**Table 9-12: Allocation of Livers from Non-DCD Deceased Donors 11 to 17 Years Old**

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
1	Pediatric Status 1A	500NM	Any	Any
2	Adult Status 1A	500NM	Any	Any
3	Pediatric Status 1B	500NM	Any	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>4</u>	<u>Pediatric Status 1A</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>5</u>	<u>Adult Status 1A</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>6</u>	<u>Pediatric Status 1B</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>7</u>	<u>PELD of at least 37</u>	<u>500NM</u>	<u>O</u>	<u>O or B</u>
<u>8</u>	<u>PELD of at least 37</u>	<u>500NM</u>	<u>Non-O</u>	<u>Any</u>
<u>9</u>	<u>PELD of at least 37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>
<u>10</u>	<u>PELD of at least 37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>
<u>11</u>	<u>PELD of at least 30</u>	<u>500NM</u>	<u>O</u>	<u>O or B</u>
<u>12</u>	<u>Any PELD</u>	<u>500NM</u>	<u>O</u>	<u>O</u>
<u>13</u>	<u>Any PELD</u>	<u>500NM</u>	<u>Non-O</u>	<u>Any</u>



Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>14</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>500NM</u>	<u>O</u>	<u>O or B</u>
<u>15</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>500NM</u>	<u>Non-O</u>	<u>Any</u>
<u>16</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>
<u>17</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>
<u>18</u>	MELD of at least 30 and candidate is less than 18 years old at registration	500NM	O	O or B
<u>19</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	O
<u>20</u>	Any MELD and candidate is less than 18 years old at registration	500NM	Non-O	Any
<u>21</u>	Pediatric Status 1A	Nation	Any	Any
<u>22</u>	Adult Status 1A	Nation	Any	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>23</u>	Pediatric Status 1B	Nation	Any	Any
<u>24</u>	PELD score of at least 30	Nation	O	O or B
<u>25</u>	Any PELD	Nation	O	O
<u>26</u>	Any PELD	Nation	Non-O	Any
<u>27</u>	MELD of at least 30 and candidate is less than 18 years old at registration	Nation	O	O or B
<u>28</u>	Any MELD and candidate is less than 18 years old at registration	Nation	O	O
<u>29</u>	Any MELD and candidate is less than 18 years old at registration	Nation	Non-O	Any
<u>30</u>	MELD of at least 30 and candidate is at least 18 years old at registration	500NM	O	O or B
<u>31</u>	Any MELD and candidate is at least 18 years old at registration	500NM	O	O
<u>32</u>	Any MELD and candidate is at least 18 years old at registration	500NM	Non-O	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>33</u>	MELD of at least 30 and candidate is at least 18 years old at registration	Nation	O	O or B
<u>34</u>	Any MELD and candidate is at least 18 years old at registration	Nation	O	O
<u>35</u>	Any MELD and candidate is at least 18 years old at registration	Nation	Non-O	Any
<u>36</u>	Any PELD	500NM	O	B
<u>37</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	B
<u>38</u>	Any PELD	Nation	O	B
<u>39</u>	Any MELD and candidate is less than 18 years old at registration	Nation	O	B
<u>40</u>	Any MELD and candidate is at least 18 years old at registration	500NM	O	B
<u>41</u>	Any MELD and candidate is at least 18 years old at registration	Nation	O	B
<u>42</u>	Any PELD	500NM	O	A or AB

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>43</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	A or AB
<u>44</u>	Any PELD	Nation	O	A or AB
<u>45</u>	Any MELD and candidate is less than 18 years old at registration	Nation	O	A or AB
<u>46</u>	Any MELD and candidate is at least 18 years old at registration	500NM	O	A or AB
<u>47</u>	Any MELD and candidate is at least 18 years old at registration	Nation	O	A or AB
<u>48</u>	Adult or Pediatric Status 1A, for other method of hepatic support	Nation	Any	Any
<u>49</u>	Pediatric Status 1B, for other method of hepatic support	Nation	Any	Any
<u>50</u>	Any MELD or PELD for other method of hepatic support	Nation	Any	Any

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**9.8.G Allocation of Livers from Non-DCD Deceased Donors Less than 11 Years Old**

Livers from non-DCD donors less than 11 years old are allocated to candidates according to *Table 9-13* below.

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**Table 9-13: Allocation of Livers from Non-DCD Deceased Donors  
Less than 11 Years Old**

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
1	Pediatric Status 1A	500NM	Any	Any
2	Pediatric Status 1A and candidate is less than 12 years old	Nation	Any	Any
3	Adult Status 1A	500NM	Any	Any
4	Pediatric Status 1B	500NM	Any	Any
<u>5</u>	<u>Pediatric Status 1A and candidate is at least 12 years old</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>6</u>	<u>Adult Status 1A</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>7</u>	<u>Pediatric Status 1B</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>8</u>	<u>PELD of at least 37</u>	<u>500NM</u>	<u>O</u>	<u>O or B</u>
<u>9</u>	<u>PELD of at least 37</u>	<u>500NM</u>	<u>Non-O</u>	<u>Any</u>
<u>10</u>	<u>PELD of at least 37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>11</u>	<u>PELD of at least 37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>
<u>12</u>	PELD of at least 30	500NM	O	O or B
<u>13</u>	Any PELD	500NM	O	O
<u>14</u>	Any PELD	500NM	Non-O	Any
<u>15</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>500NM</u>	<u>O</u>	<u>O or B</u>
<u>16</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>500NM</u>	<u>Non-O</u>	<u>Any</u>
<u>17</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>
<u>18</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>
<u>19</u>	MELD of at least 30 and candidate is less than 18 years old at registration	500NM	O	O or B

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>20</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	O
<u>21</u>	Any MELD and candidate is less than 18 years old at registration	500NM	Non-O	Any
<u>22</u>	Pediatric Status 1A and candidate is at least 12 years old	Nation	Any	Any
<u>23</u>	Adult Status 1A	Nation	Any	Any
<u>24</u>	Pediatric Status 1B	Nation	Any	Any
<u>25</u>	PELD of at least 30	Nation	O	O or B
<u>26</u>	Any PELD	Nation	O	O
<u>27</u>	Any PELD	Nation	Non-O	Any
<u>28</u>	MELD of at least 30 and candidate is less than 18 years old at registration	Nation	O	O or B
<u>29</u>	Any MELD and candidate is less than 18 years old at registration	Nation	O	O
<u>30</u>	Any MELD and less than 18 years old at registration	Nation	Non-O	Any
<u>31</u>	MELD of at least 30 and candidate is at least 18 years old at registration	500NM	O	O or B

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>32</u>	Any MELD and candidate is at least 18 years old at registration	500NM	O	O
<u>33</u>	Any MELD and at least 18 years old at registration	500NM	Non-O	Any
<u>34</u>	MELD of at least 30 and at least 18 years old at registration	Nation	O	O or B
<u>35</u>	Any MELD and at least 18 years old at registration	Nation	O	O
<u>36</u>	Any MELD and at least 18 years old at registration	Nation	Non-O	Any
<u>37</u>	Any PELD	500NM	O	B
<u>38</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	B
<u>39</u>	Any PELD	Nation	O	B
<u>40</u>	Any MELD and candidate is less than 18 years old at registration	Nation	O	B
<u>41</u>	Any MELD and candidate is at least 18 years old at registration	500NM	O	B



Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>42</u>	Any MELD and candidate is at least 18 years old at registration	Nation	O	B
<u>43</u>	Any PELD	500NM	O	A or AB
<u>44</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	A or AB
<u>45</u>	Any PELD	Nation	O	A or AB
<u>46</u>	Any MELD and candidate is less than 18 years old at registration	Nation	O	A or AB
<u>47</u>	Any MELD and candidate is at least 18 years old at registration	500NM	O	A or AB
<u>48</u>	Any MELD and candidate is at least 18 years old at registration	Nation	O	A or AB
<u>49</u>	Status 1A, for other method of hepatic support	Nation	Any	Any
<u>50</u>	Status 1B, for other method of hepatic support	Nation	Any	Any
<u>51</u>	Any MELD or PELD for other method of hepatic support	Nation	Any	Any

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**9.8.1 Allocation of Liver-Intestines from Non-DCD Deceased Donors at Least 18 Years Old and Less than 70 Years Old**

Livers and intestines from non-DCD deceased donors at least 18 years old and less than 70 years old are allocated to candidates according to *Table 9-15* below:

**Table 9-15: Allocation of Liver-Intestines from Non-DCD Deceased Donors at Least 18 Years Old and Less than 70 Years Old**

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
1	Status 1A	500NM	Any	Any
2	Status 1B	500NM	Any	Any
<u>3</u>	<u>Status 1A</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>4</u>	<u>Status 1B</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>5</u>	37	150NM	O	O or B
<u>6</u>	37	150NM	Non-O	Any
<u>7</u>	37	250NM	O	O or B
<u>8</u>	37	250NM	Non-O	Any
<u>9</u>	37	500NM	O	O or B
<u>10</u>	37	500NM	Non-O	Any
<u>11</u>	<u>37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>12</u>	<u>37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>
<u>13</u>	33	150NM	O	O or B
<u>14</u>	33	150NM	Non-O	Any
<u>15</u>	33	250NM	O	O or B
<u>16</u>	33	250NM	Non-O	Any
<u>17</u>	33	500NM	O	O or B
<u>18</u>	33	500NM	Non-O	Any
<u>19</u>	30	150NM	O	O or B
<u>20</u>	29	150NM	O	O
<u>21</u>	29	150NM	Non-O	Any
<u>22</u>	30	250NM	O	O or B
<u>23</u>	29	250NM	O	O
<u>24</u>	29	250NM	Non-O	Any
<u>25</u>	30	500NM	O	O or B
<u>26</u>	29	500NM	O	O
<u>27</u>	29	500NM	Non-O	Any
<u>28</u>	Status 1A and also registered for an intestine	Nation	Any	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>29</u>	Status 1B and also registered for an intestine	Nation	Any	Any
<u>30</u>	30 and also registered for an intestine	Nation	O	O or B
<u>31</u>	Any and also registered for an intestine	Nation	O	O
<u>32</u>	Any and also registered for an intestine	Nation	Non-O	Any
<u>33</u>	15	150NM	O	O
<u>34</u>	15	150NM	Non-O	Any
<u>35</u>	15	250NM	O	O
<u>36</u>	15	250NM	Non-O	Any
<u>37</u>	15	500NM	O	O
<u>38</u>	15	500NM	Non-O	Any
<u>39</u>	Status 1A	Nation	Any	Any
<u>40</u>	Status 1B	Nation	Any	Any
<u>41</u>	30	Nation	O	O or B
<u>42</u>	15	Nation	O	O
<u>43</u>	15	Nation	Non-O	Any
<u>44</u>	Any	150NM	O	O
<u>45</u>	Any	150NM	Non-O	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>46</u>	Any	250NM	O	O
<u>47</u>	Any	250NM	Non-O	Any
<u>48</u>	Any	500NM	O	O
<u>49</u>	Any	500NM	Non-O	Any
<u>50</u>	Any	Nation	O	O
<u>51</u>	Any	Nation	Non-O	Any
<u>52</u>	29	150NM	O	B
<u>53</u>	29	250NM	O	B
<u>54</u>	29	500NM	O	B
<u>55</u>	Any and also registered for an intestine	Nation	O	B
<u>56</u>	15	150NM	O	B
<u>57</u>	15	250NM	O	B
<u>58</u>	15	500NM	O	B
<u>59</u>	15	Nation	O	B
<u>60</u>	Any	150NM	O	B
<u>61</u>	Any	250NM	O	B
<u>62</u>	Any	500NM	O	B
<u>63</u>	Any	Nation	O	B
<u>64</u>	37	150NM	O	A or AB
<u>65</u>	37	250NM	O	A or AB

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>66</u>	37	500NM	O	A or AB
<u>67</u>	33	150NM	O	A or AB
<u>68</u>	33	250NM	O	A or AB
<u>69</u>	33	500NM	O	A or AB
<u>70</u>	29	150NM	O	A or AB
<u>71</u>	29	250NM	O	A or AB
<u>72</u>	29	500NM	O	A or AB
<u>73</u>	Any and also registered for an intestine	Nation	O	A or AB
<u>74</u>	15	150NM	O	A or AB
<u>75</u>	15	250NM	O	A or AB
<u>76</u>	15	500NM	O	A or AB
<u>77</u>	15	Nation	O	A or AB
<u>78</u>	Any	150NM	O	A or AB
<u>79</u>	Any	250NM	O	A or AB
<u>80</u>	Any	500NM	O	A or AB
<u>81</u>	Any	Nation	O	A or AB
<u>82</u>	Status 1A, for other method of hepatic support	Nation	Any	Any
<u>83</u>	Status 1B, for other method of hepatic support	Nation	Any	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>84</u>	Any MELD or PELD for other method of hepatic support	Nation	Any	Any

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**9.8.J Allocation of Liver-Intestines from Non-DCD Donors Less than 11 Years Old**

Livers and intestines from non-DCD donors less than 11 years old are allocated to candidates according to *Table 9-16* below.

**Table 9-16: Allocation of Combined Liver-Intestines from Donors Less than 11 Years Old**

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
1	Pediatric Status 1A	500NM	Any	Any
2	Pediatric Status 1A and candidate is less than 12 years old	Nation	Any	Any
3	Pediatric Status 1A, candidate is at least 12 years old, and candidate is also registered for an intestine	Nation	Any	Any
4	Adult Status 1A	500NM	Any	Any
5	Pediatric Status 1B	500NM	Any	Any
<u>6</u>	<u>Pediatric Status 1A and candidate is at least 12 years old</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>7</u>	<u>Adult Status 1A</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>8</u>	<u>Pediatric Status 1B</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Any</u>	<u>Any</u>
<u>9</u>	<u>PELD of at least 37</u>	<u>500NM</u>	<u>O</u>	<u>O or B</u>
<u>10</u>	<u>PELD of at least 37</u>	<u>500NM</u>	<u>Non-O</u>	<u>Any</u>
<u>11</u>	<u>PELD of at least 37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>
<u>12</u>	<u>PELD of at least 37</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>
<u>13</u>	PELD 30	500NM	O	O or B
<u>14</u>	PELD 20	500NM	O	O
<u>15</u>	PELD 20	500NM	Non-O	Any
<u>16</u>	Pediatric Status 1B, and candidate is also registered for an intestine	Nation	Any	Any



Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>17</u>	PELD of at least 30 and candidate is also registered for an intestine	Nation	O	O or B
<u>18</u>	PELD of at least 20 and candidate is also registered for an intestine	Nation	O	O
<u>19</u>	PELD of at least 20 and candidate is also registered for an intestine	Nation	Non-O	Any
<u>20</u>	Any PELD	500NM	O	O
<u>21</u>	Any PELD	500NM	Non-O	Any
<u>22</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>500NM</u>	<u>O</u>	<u>O or B</u>
<u>23</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>500NM</u>	<u>Non-O</u>	<u>Any</u>
<u>24</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>O</u>	<u>O or B</u>
<u>25</u>	<u>MELD of at least 37 and candidate is less than 18 years old at registration</u>	<u>2,400NM and candidate is registered in Hawaii or 1,100NM and candidate is registered in Puerto Rico</u>	<u>Non-O</u>	<u>Any</u>

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>26</u>	MELD of at least 30 and less than 18 years old at registration	500NM	O	O or B
<u>27</u>	Any MELD and less than 18 years old at registration	500NM	O	O
<u>28</u>	Any MELD, candidate is less than 18 years old at registration	500NM	Non-O	Any
<u>29</u>	Pediatric Status 1A and at least 12 years old	Nation	Any	Any
<u>30</u>	Adult Status 1A	Nation	Any	Any
<u>31</u>	Pediatric Status 1B	Nation	Any	Any
<u>32</u>	PELD at least 30	Nation	O	O or B
<u>33</u>	Any PELD	Nation	O	O
<u>34</u>	Any PELD	Nation	Non-O	Any
<u>35</u>	MELD of at least 30 and less than 18 years old at registration	Nation	O	O or B
<u>36</u>	Any MELD and less than 18 years old at registration	Nation	O	O
<u>37</u>	Any MELD and less than 18 years old at registration	Nation	Non-O	Any

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>38</u>	MELD of at least 30 and at least 18 years old at registration	500NM	O	O or B
<u>39</u>	Any MELD and at least 18 years old at registration	500NM	O	O
<u>40</u>	Any MELD and at least 18 years old at registration	500NM	Non-O	Any
<u>41</u>	MELD of at least 30 and at least 18 years old at registration	Nation	O	O or B
<u>42</u>	Any MELD and at least 18 years old at registration	Nation	O	O
<u>43</u>	Any MELD and at least 18 years old at registration	Nation	Non-O	Any
<u>44</u>	PELD 20	500NM	O	B
<u>45</u>	PELD of at least 20 and candidate is also registered for an intestine	Nation	O	B
<u>46</u>	Any PELD	500NM	O	B
<u>47</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	B
<u>48</u>	Any PELD	Nation	O	B

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>49</u>	Any MELD and candidate is less than 18 years old at registration	Nation	O	B
<u>50</u>	Any MELD and candidate is at least 18 years old at registration	500NM	O	B
<u>51</u>	Any MELD and candidate is at least 18 years old at registration	Nation	O	B
<u>52</u>	PELD 20	500NM	O	A or AB
<u>53</u>	PELD of at least 20 and candidate is also registered for an intestine	Nation	O	A or AB
<u>54</u>	Any PELD	500NM	O	A or AB
<u>55</u>	Any MELD and candidate is less than 18 years old at registration	500NM	O	A or AB
<u>56</u>	Any PELD	Nation	O	A or AB
<u>57</u>	Any MELD, candidate is less than 18 years old at registration	Nation	O	A or AB
<u>58</u>	Any MELD, candidate is at least 18 years old at registration	500NM	O	A or AB
<u>59</u>	Any MELD, candidate is at least 18 years old at registration	Nation	O	A or AB

Classification	Candidates with a MELD or PELD score of at least	And registered at a transplant hospital that is at or within this distance from a donor hospital	Donor blood type	Candidate blood type
<u>60</u>	Adult or Pediatric Status 1A, for other method of hepatic support	Nation	Any	Any
<u>61</u>	Pediatric Status 1B, for other method of hepatic support	Nation	Any	Any
<u>62</u>	Any MELD or PELD for other method of hepatic support	Nation	Any	Any

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**9.11.D Closed Variance for Liver Transplantation in Hawaii and Puerto Rico**

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This is a closed variance that applies only to liver and liver-intestine candidates registered at transplant programs in Hawaii or Puerto Rico, due to geographic location. This variance provides for additional classifications in the allocation sequences in Policies 9.8.E-9.8.K. The additional classifications apply to the following:

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- Candidates registered at transplant programs in Hawaii when the transplant hospital is at or within 2,400 NM of the donor hospital.
- Candidates registered at transplant programs in Puerto Rico when the transplant hospital is at or within 1,100 NM of the donor hospital.

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