

**OPTN Ad Hoc Multi-Organ Transplantation Committee
Lung Multi-Organ Workgroup
Meeting Summary
January 14, 2025
Conference Call**

**Marie Budev, DO, MPH, Chair
Lisa Stocks, RN, MSN, FNP, Chair**

Introduction

The OPTN Lung Multi-Organ Workgroup (the Workgroup) met via WebEx teleconference on 01/14/2025 to discuss the following agenda items:

1. Welcome and agenda
2. Recap primary lung CAS threshold recommendations
3. Review thresholds for higher KDPI adult DBD donors

The following is a summary of the Workgroup's discussions.

1. Welcome and agenda

OPTN contractor staff presented the group's workplan for January-April 2025.

Data summary:

At this meeting, the Workgroup will recap the primary lung composite allocation score (CAS) threshold recommendations, review thresholds for adult donation after brain death (DBD) donors with higher Kidney Donor Profile Index (KDPI), and request any additional data needed to finalize the lung CAS thresholds.

At its February meeting, the Workgroup will review thresholds for adult donation after circulatory death (DCD) donors. At its March meeting, the Workgroup will review thresholds for pediatric donors. At its April meeting, the Workgroup will review public comment feedback on the lung CAS thresholds and finalize recommendations to the MOT Committee.

Summary of discussion:

Decision #1: The Workgroup will review data on pediatric donors who donated to adult lung multi-organ recipients when considering the lung CAS thresholds for pediatric donors.

The Chair asked how many pediatric donors donated organs to adult lung multi-organ recipients. OPTN contractor staff said that the Workgroup can review this data when assessing the thresholds for pediatric donors.

Next steps:

The Workgroup will follow the workplan and may schedule an additional meeting in April, if needed.

2. Recap primary lung CAS threshold recommendations

The Workgroup reviewed the primary lung CAS threshold recommendations.

Data summary:

The recommended lung CAS thresholds are:

Blood type O donors:

- High CAS threshold: 35
- Low CAS threshold: 34

Blood type A, B, AB donors:

- High CAS threshold: 31
- Low CAS threshold: 30

The Multi-Organ Transplantation (MOT) Committee has developed multi-organ allocation tables for six donor groups:

- DBD adult donors aged 18-69 with KDPI of 0-34%
- DBD adult donors aged 18-69 with KDPI of 35-85%
- DCD adult donors aged 18+ with KDPI of 0-34%
- DBD pediatric donors aged 11-17 with KDPI of 0-34%
- DBD pediatric donors aged <11 with KDPI of 0-34%
- DBD pediatric donors aged <11 with KDPI of 35-85%

Together, these donors account for approximately 96% of donors to multi-organ recipients from July 2021-December 2023. In its work so far, the Workgroup has focused on DBD adult donors aged 18-69 with KDPI of 0-34%. This group of donors account for approximately 65% of donors to multi-organ recipients.

For DBD adult donors aged 18-69 with KDPI of 0-34%, the recommended lung CAS thresholds would cover approximately 13% of the match. For O donors, the higher CAS threshold would cover approximately 6% of the match and the lower threshold would cover approximately 7%. For A, B, and AB donors, the higher CAS threshold would cover approximately 8% of the match and the lower threshold approximately 5%. Data on median number of candidates above the threshold and median sequence number at acceptance shows that, most of the time, the lungs will be placed above both of the recommended thresholds. The thresholds capture a median of approximately 25% of lung multi-organ candidates.

There are few lung-liver candidates on the waiting list. From September 28, 2023-June 30 2024, there were 28 lung-liver candidates waiting. Approximately 75% of O lung-liver candidates had an average CAS ≥ 34 ; approximately 25% of A candidates had an average CAS ≥ 30 ; and approximately 75% of B candidates had an average CAS ≥ 30 . None of the lung-liver candidates in the study period had an approved exception request. The issue of exceptions can be discussed in greater detail with the Lung Committee.

Similarly, there are few lung-kidney candidates on the waiting list. From September 28, 2023-June 30 2024, there were 24 lung-kidney candidates waiting. Approximately 40% of O lung-kidney candidates had an average CAS ≥ 34 . Approximately 65% of A/AB candidates had an average CAS ≥ 30 . Approximately 50% of B candidates had an average CAS ≥ 30 .

For O donors, at a threshold of 35, there are more match runs where candidates in the “last above” and “first below” positions have > 1 medical urgency point. For A, B, and AB donors, at a threshold of 31, there are more match runs where candidates in the “last above” and “first below” positions have > 1 medical urgency point.

Summary of Discussion:

Decision #2: The Workgroup supported the following lung CAS thresholds for adult DBD donors aged 18-69 with KDPI of 0-34%:

- **Blood type O donors: high threshold of 35, low threshold of 34**
- **Non-O donors: high threshold of 31, low threshold of 30**

The Workgroup discussed whether the recommended thresholds are appropriate for inclusion in the multi-organ allocation table for DBD adult donors aged 18-69 with KDPI of 0-34%. The members supported the thresholds presented.

The Chair asked whether the thresholds would capture all pediatric multi-organ candidates. OPTN contractor staff confirmed that the thresholds covered all pediatric lung candidates in the cohort (both lung-alone and any lung-multi-organ pediatric candidates).

The Chair noted that currently, heart-lung offers are often not made from the lung match and sought clarity on whether the policy proposal would facilitate these types of offers. Staff confirmed that once OPOs had made offers to candidates in Heart Classifications 1-4, the proposed policy would direct OPOs to begin making offers from the lung match, including to heart-lung candidates. The Chair noted the need to clarify whether the MOT Committee proposes any restrictions on heart status required for heart-lung offers from the lung match.

Next Steps:

The Workgroup will liaise with the MOT Committee regarding criteria for multi-organ offers involving lungs.

3. Review thresholds for higher KDPI adult DBD donors

The Workgroup reviewed the lung CAS thresholds for DBD adult donors aged 18-69 with KDPI of 35-85%.

Summary of Presentation:

OPTN contractor staff noted that the MOT Committee is considering developing an additional multi-organ allocation table for DCD adult donors aged 18+ with KDPI 35-85%. Staff requested that the Workgroup consider whether it would like to request the same CAS threshold analysis for this additional donor group.

For DBD adult donors aged 18-69 with KDPI of 35-85%, the proposed thresholds covered 13-14% of the match. The thresholds capture a median of approximately 25% of lung multi-organ candidates. For O donors, at a threshold of 35, there are more match runs where candidates in the “last above” and “first below” positions have > 1 medical urgency point. For A, B, and AB donors, at a threshold of 31, there are more match runs where candidates in the “last above” and “first below” positions have > 1 medical urgency point.

Summary of Discussion:

Decision #3: The Workgroup requested lung CAS threshold analysis for DCD adult donors aged 18+ with KDPI 35-85%.

Decision #4: The Workgroup supported the following lung CAS thresholds for adult DBD donors aged 18-69 with KDPI of 35-85%:

- **Blood type O donors: high threshold of 35, low threshold of 34**
- **Non-O donors: high threshold of 31, low threshold of 30**

Members supported requesting CAS threshold analysis for DCD adult donors aged 18+ with KDPI 35-85%. They noted data showing increasing donations to multi-organ candidates among this group.

Members supported the lung CAS thresholds for DBD adult donors aged 18-69 with KDPI of 35-85%. Members found the data clear and supportive of the proposed thresholds.

Next Steps:

OPTN staff will prepare CAS threshold analysis for DCD adult donors aged 18+ with KDPI 35-85%. The workgroup will continue working through data for the other donor groups.

Upcoming Meetings

- February 11, 2025
- March 11, 2025
- April 8, 2025

Attendance

- **Workgroup Members**
 - Marie Budev
 - Matthew Hartwig
 - Erika Lease
 - JD Menteer
 - Jackie Russe
 - Zoe Stewart Lewis
- **HRSA Representatives**
 - Jim Bowman
- **SRTR Staff**
 - Jon Miller
- **UNOS Staff**
 - Chelsea Hawkins
 - Houlder Hudgins
 - Kaitlin Swanner
 - Sarah Roache
- **Other Attendees**
 - Nader Moazami