

OPTN Lung Transplantation Committee
Promote Efficiency of Lung Allocation Workgroup
Meeting Summary
October 15, 2024
Conference Call

Matthew Hartwig, MD, Chair
Dennis Lyu, MD, Vice Chair

Introduction

The Promote Efficiency of Lung Allocation Workgroup (the Workgroup) met via Webex teleconference on 10/15/2024 to discuss the following agenda items:

1. Modify Lung Donor Data Collection

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

1. Modify Lung Donor Data Collection

In May 2024, the Workgroup recommended the Lung Donor Testing project to the Lung Transplantation Committee. Part one included updates to [OPTN Policy 2.11.D: Required Information for Deceased Lung Donors](#) and [Guidance](#) on Requested Deceased Donor Information.

The *Modify Lung Donor Data Collection* proposal will include data collection and other system changes. The Workgroup continues to discuss changes related to lung donor bronchoscopies, chest computed tomography (CT) scans, smoking history, predicted Total Lung Capacity (pTLC), lung measurements, and Peak Inspiratory Pressure (PIP).

Summary of discussion:

Since the GLI pTLC formula applies to patients ages 5-80 years old and 50-230 cm in height, the Workgroup recommended that the OPTN Computer System does not allow for pTLC calculation for donors outside of those ranges.

The Workgroup recommended a minimum input value of 0.1 liters (L), and a maximum output of 14 L, for pTLC data collection in the OPTN Computer System.

The Workgroup recommended allowing decimal values to be entered for reporting packs per day, with an absolute range of 0.1 to 5 packs per day.

The Workgroup recommended allowing decimal values to be entered for cigarettes per day, with an absolute range of 0.1 cigarette to 20 cigarettes per day.

For offer filters, the Workgroup recommended zero to 100 as the absolute range for pack years entries.

PTLC

Since the Global Lung Initiative (GLI) pTLC formula applies to patients ages 5-80 years old and 50-230 cm in height, the Workgroup recommended that the OPTN Computer System does not allow for pTLC calculation for donors outside of those ranges. A member noted that there is limited accuracy in the

pTLC calculation for pediatric donors ages 8-12; education on this may be helpful to the community. The system would not allow screening for the donor population outside of the formula range. For donors outside the formula range, other available screening tools, such as height and age will be utilized, if included in Donor Acceptance Criteria.

A data standardization checklist was reviewed for pTLC. The Workgroup recommended a minimum input value of 0.1 liters (L), and a maximum output of 14 L, for pTLC data collection in the OPTN Computer System. A minimum input value of 0 L was considered, however, members wanted to ensure impossible values could not be entered. Members reported that the highest pTLC value they have seen is approximately 10 L. The maximum output recommendation was derived by calculating the highest possible output value of the GLI pTLC formula and rounding up to the nearest whole number. This method ensures the full range of possible pTLC values can be entered into the system. The Workgroup agreed that allowing two decimal places for pTLC values would be appropriate, as it aligns with reporting from many pulmonary function testing (PFT) laboratories.

Cigarette Smoking History

The Workgroup recommended allowing decimal values to be entered for reporting packs per day. Users may report that a donor smoked less than a pack per day; the minimum value should be 0.1 packs per day. The maximum value should be 5 packs per day, which would equate to 100 cigarettes per day. The Workgroup recommended allowing decimal values to be entered for cigarettes per day. Users may report that a donor smoked less than a cigarette per day. For example, if a donor smoked 3 cigarettes a week (3 cigarettes per 7 days), the user would enter .4 cigarettes. The minimum value should be 0.1 packs per day. The maximum value should be 20 cigarettes per day. If a donor smoked over 20 cigarettes a day, the user should enter this value in the pack years field. The formulas for pack years calculations were confirmed.

For offer filters, the Workgroup recommended 0 to 100 as the absolute range (minimum and maximum) for pack years entries. Lung transplant programs would have the option to filter offers from donors with up to 100 pack years, or with any history of cigarette smoking. Members expressed the importance of providing programs autonomy over filtering on this data element. Entries outside of this range will receive an “error” message.

Next steps:

The Workgroup will finalize their recommendations for the *Modify Lung Donor Data Collection* proposal during their next meeting.

Upcoming Meetings

- November 12, 2024, teleconference, 5PM ET

Attendance

- **Workgroup Members**
 - Matthew Hartwig
 - Erika Lease
 - Dennis Lyu
 - Marie Budev
 - Ernestina Melicoff
 - Greg Veenendaal
 - Daniel Disante
 - Erin Halpin
- **HRSA Representatives**
 - Marilyn Levi
- **SRTR Staff**
 - David Schladt
- **UNOS Staff**
 - Kelley Poff
 - Kaitlin Swanner
 - Leah Nunez
 - Chelsea Hawkins
 - Holly Sobczak
 - Samantha Weiss
 - Houlder Hudgins