OPTN Machine Perfusion Data Collection Workgroup
Meeting Summary
March 19, 2025
Conference Call

PJ Geraghty, MBA, CPTC, Chair

Introduction

The OPTN Machine Perfusion Data Collection Workgroup (the Workgroup) met via WebEx teleconference on 03/19/2025 to discuss the following agenda items:

1. Review of NRP Data Elements
2. Continue Machine Perfusion Data Discussion

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

1. Review of NRP Data Elements

Presentation Summary

Data elements awaiting implementation include:

- NRP Recovery
- Initiation of NRP
- Four Flush times

Data elements being added include:

- Second cross clamp time
- NRP Run Time, end time (start time awaiting implementation)
- Organs intended to be recovered using NRP
- Thoracoabdominal NRP vs Abdominal NRP
- Total Heparin Administered into the NRP Circuit
- SBP50 Intervals (Require OPO to enter vitals on minute-by-minute basis)
- Lactate Levels

Summary of Discussion:

No decisions were made regarding this agenda item.

The Workgroup discussed the Second Cross Clamp Time data element. They noted that changing the name of the cross clamp data element or adding a second cross clamp time would be difficult since cross clamp time is widely used across various systems and any modification to its definition or removal would require careful consideration of its implications. Members also raised concerns about how potential changes could affect Information Technology (IT) infrastructure, OPTN Computer System data, and the labeling of organ packaging.

The Workgroup discussed the NRP Circuit Flow. The Chair noted that the NRP circuit flow is based on weight, which may make it less useful to capture. A Workgroup member agreed and suggested that the

Workgroup avoid trying to capture every data element and instead focus on the quick implementation of these new data elements. The Workgroup observed that circuit flow is one way to judge how successful the use of NRP was and that lactate levels can also help make that determination, but lactate levels can be affected by more than just circuit flow.

Next Steps:

- Review NRP Circuit Flow

2. Begin Machine Perfusion Data Discussion

Presentation Summary

Simple potential data elements

- Normothermic vs Hyperthermic
- Machine type
- On machine, date/time
- Off machine, date/time
- Who requested the use of machine perfusion?
- Who performed the machine perfusion?
- Lactate Levels

Complex potential data elements

- P02
- PCo2
- pH
- Temp
- Bile
- Arterial Flow
- Portal Flow
- IVC Flow
- Arterial Pressure
- IVC Pressure
- Glucose clearance (Machine specific)

Summary of Discussion:

No decisions were made regarding this agenda item.

The Workgroup discussed trying to implement machine perfusion data elements in two phases: first, collecting the simple data elements which could be implemented quickly and then working on the more complex data elements which could be implemented later. The Chair wanted to know if breaking this project into two phases would significantly reduce the overall timeline in which case it may be beneficial to introduce the most simple and useful data elements first.

Next Steps:

- Consult IT support for information on doing machine perfusion data elements in two phases

Upcoming Meeting

- April 16, 2025

Attendance

- **Workgroup Members**
  - PJ Geraghty
  - Micah Davis
  - Aaron Ahearn
  - Matthew Hartwig
  - Anja DiCesaro
  - Chrstine Maxmeister
  - Theresa Daly
  - Cassie Hertert
  - Stephen Gray

- **HRSA Staff**
  - Brianna Doby

- **SRTR Staff**
  - Jon Miller

- **UNOS Staff**
  - Robert Hunter
  - Ross Walton
  - Kaitlin Swanner
  - Laura Schmitt
  - Alina Martinez