

OPTN Machine Perfusion Data Collection Workgroup

Meeting Summary

May 07, 2025

Conference Call

PJ Geraghty, MBA, CPTC, Chair

Introduction

The OPTN Machine Perfusion Data Collection Workgroup (the Workgroup) met via WebEx teleconference on 05/07/2025 to discuss the following agenda items:

1. Review of Normothermic Regional Perfusion (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

The Workgroup reviewed NRP Data elements and recommendations to include additional clinical information as follows:

- Glucose
- Liver Function Tests
 - Alanine aminotransferase (ALT)
 - Aspartate aminotransferase (AST)
- Arterial Blood Gas (ABG)

Summary of Discussion:

Decision #1: Request public comment feedback on the inclusion of Glucose, ALT, AST, and ABG for the NRP process

Decision #2: Request public comment feedback on the elimination of cross clamp

Glucose, ALT, AST, ABG

The Workgroup discussed the clinical importance of these items for NRP and whether OPOs currently collect this information for NRP. The Workgroup felt that ALT, AST, and ABG could be useful in some circumstances. Most OPOs collected ALT, AST, and ABG or some combination thereof, and a few collected glucose when performing NRP. The Workgroup decided to request public comment feedback on the addition of these items.

Cross Clamp Elimination

The Workgroup addressed concerns about eliminating cross clamp time in favor of organ flush times. They discussed the difficulty this would create for future data comparisons, noting that creating a

second cross clamp would only further muddle those data comparisons. They concluded they would request public comment feedback on eliminating cross clamp in favor of flush times versus creating a second cross clamp.

Next Steps:

There are no next steps for this agenda item.

2. Continue Machine Perfusion Data Discussion

Presentation Summary

The Committee reviewed Machine Perfusion Data elements.

Summary of Discussion:

Decision #1: Have the Machine Type data element include an “other” option

Decision #2: Create a new form that allows OPOs and transplant centers to capture machine perfusion data

Machine Type Data Element

The Workgroup discussed the Machine Type data element. They concluded that new machine types will be used in the transplant field and that the drop-down menu to answer this data element will need to account for the new machine types. One suggestion was to make this data element a free-text option so that it would not need to be continually updated every time a new machine type was manufactured. The Workgroup rejected this idea because, from a data collection standpoint, free-text options result in data that is difficult to use meaningfully. Instead, the Workgroup decided to add the most common machine types currently in use and include an “other” option, which would provide a free-text field. This solution would allow the OPTN to capture the use of a newer machine until the drop-down list could be updated.

Collecting Machine Perfusion Data

The Workgroup discussed whether the data elements for Machine Perfusion should be captured on the Deceased Donor Registration (DDR) or the Transplant Recipient Registration (TRR). They noted that TRRs are only generated when an organ is transplanted, so having these data elements on the TRR would not capture data on organs that get pumped but never transplanted. If the Workgroup placed the data elements on the DDR, then it would overburden OPOs, who would have to contact transplant centers to get the information. The Workgroup decided a third option was needed to collect this information. The new form would require that whoever initiated the machine perfusion would be responsible for filling out the form.

Next Steps:

There are no next steps for this agenda item.

Upcoming Meeting

- May 7, 2025

Attendance

- **Workgroup Members**
 - PJ Geraghty
 - Kim Baltierra
 - Aaron Ahearn
 - Chris Sonnenday
 - Stephen Gray
 - Micah Davis
 - Anja DiCesaro
 - Christine Maxmeister
 - Jason W Smith
 - Matthew Hartwig
- **SRTR Staff**
 - Katie Siegert
 - Jon Miller
- **UNOS Staff**
 - Robert Hunter
 - Susan Tlusty
 - Kaitlin Swanner
 - Ethan Studenic
 - Houlder Hudgins
 - Ross Walton
 - Kevin Daub
 - Alina Martinez