

Develop Measures for Primary Graft Dysfunction in Hearts

OPTN Heart Transplantation Committee

Purpose of Request for Feedback

- Primary Graft Dysfunction (PGD) results in poor post-transplant outcomes
- 2013 ISHLT consensus conference produced classification system; Heart community continues clarifying
- OPTN does not collect post-transplant data specific to PGD; limiting analysis
- Obtain community feedback to inform potential PGD data collection effort
 - Identify PGD in recipients
 - Understand impact of PGD on post-transplant survival

Potential Data Elements for Addition to TRR

| Data Element | Values and/or Ranges |
|--|-------------------------------|
| Primary Graft Dysfunction | Yes or no |
| Left Ventricular Dysfunction | Yes or no |
| Right Ventricular Dysfunction | Yes or no |
| Left Ventricular Ejection Fraction | Percentage |
| Right Atrial Pressure (RAP) | mm Hg |
| Pulmonary Capillary Wedge Pressure (PCWP) | mm Hg |
| Pulmonary Artery Systolic Pressure / Pulmonary Artery Diastolic Pressure | mm Hg |
| Cardiac Output | Liters / minute |
| Support Device | Yes or no |
| If Yes | Right, left, or biventricular |
| Type of Device | Device name(s) |
| Inotrope support | Drug(s) and dosages |

Potential New Predictive and Operational Data Elements

- Perfusion solution amount?
- Presence or absence of bag pressure?
- Procurement factors
 - Procurement completed by donor hospital team or transplant program team?
 - Warm ischemia time associated with donation?

What do you think?

- PGD and data collection
 - Suggested data elements?
 - Other predictive or operational data elements? Risk factors?
 - Timing of data collection?
 - Consistency of data reporting?
- Other considerations
 - Focus on moderate to severe PGD or only severe PGD?
 - Differences between adult and pediatric PGD?
 - DCD donors and PGD?
 - Eliminate “Airway Dehiscence” from OPTN heart data collection?

Next Steps

- Review community feedback
- Develop future data collection proposal
- Transplant programs should consider operational impacts of collection and reporting