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