Policy Summary

It is the policy of the Maine Transplant Program to responsibly use Kidney Donor Profile Index (KDPI)>85 kidneys for transplantation. The Maine Transplant Program’s policy is to assure that KDPI>85 kidneys meet certain quality standards and that appropriate candidates for KDPI>85 kidneys are defined.

Background & Definitions

Kidney Donor Profile Index score tells us how long a kidney will work after it has been transplanted. Kidneys are given a score from 0-100. The lower the score the longer the kidney is expected to last after transplantation while a higher score means the kidney is expected not to last as long. Current data indicate that the biggest change in outcomes occurs when the KDPI exceeds 85%.

The score is determined by factors related to the donor like:

- Height and weight
- History of high blood pressure, diabetes, hepatitis B and hepatitis C
- Cause of death
- Race
- Blood creatinine level. This level is a measure of how well the kidney works.

Procedures

The following criteria shall determine the suitability of a transplant candidate for KDPI>85 kidney transplantation:

Recipient Criteria for KDPI>85

a) Age >40 yrs
b) PRA <20%
c) BMI <32
d) Not a re-transplant candidate
e) Not preemptive
f) No potential living donor
g) Short projected waiting time for KDPI>85 kidney transplant (conversely, long projected wait time for a KDPI,85 kidney transplant)
Minimum Donor Criteria for KDPI>85

1. GFR:
   - eGFR > 65%: Single kidney
   - eGFR = 40-65%: Dual Kidney Transplant
   - eGFR < 40%: Unacceptable

2. Allograft biopsy:
   a) Glomerulosclerosis:
      i. Donor age 50-59 = up to 20%
      ii. Donor Age 60-75 = up to 30%
   b) Vascular changes: not acceptable if moderate or higher
   c) Tubular atrophy: not acceptable if moderate or higher

3. Pump parameters (minimum of 6 hrs): Consider if
   a. Flow rate > 80 ml/min
   b. Resistance < 0.40 mmHg

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