

**Maine Medical Center
Maine Transplant Program
Policies and Procedures
Kidney Donor Profile Index >85 Policy**

Policy Summary

It is the policy of the Maine Transplant Program to responsibly use deceased donor kidneys with a Kidney Donor Profile Index of greater than 85% (KDPI>85) for transplantation. The use of such kidneys may be associated with reduced waiting time for transplantation at the expense of reduced long term graft survival. The Maine Transplant Program's policy is to assure that KDPI>85 kidneys meet certain quality criteria and that appropriate selection criteria for candidates of KDPI>85 kidneys are defined.

Background & Definitions

The Kidney Donor Profile Index score estimates 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 as follows:

- Height and weight
- History of high blood pressure, diabetes, hepatitis B and hepatitis C
- Cause of death
- Race
- Blood creatinine level

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) No potential living donor
- d) Short projected waiting time for KDPI>85 kidney transplant (conversely, long projected wait time for a KDPI<85 kidney transplant)

Minimum Donor Acceptance Criteria for KDPI>85 Kidneys

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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