

Indications

Kidney alone:

- ⇒ Any patient with end-stage renal disease
- ⇒ Creatinine clearance < 20 milliliters per minute

Pancreas (Options Include SPK, PAK, PTA):

- ⇒ Patients with Type I diabetes who are also excellent candidates for kidney transplantation
- ⇒ Patients with Type I diabetes who enjoy good function of a kidney transplant and are receiving immunosuppression
- ⇒ Select patients with Type I diabetes who are extremely brittle or have frequent, severe hypoglycemic unawareness such that the risks of surgery and immunosuppression are less morbid than the current state of ill health

Waiting Times

Waiting times vary according to ABO blood type. To determine compatibility, blood types are compared using the following parameters: ABO blood type compatibility, antigen matching human leukocyte antigens (HLA) and crossmatch compatibility.

ABO Type	Can receive a kidney from:	Can generally donate a kidney to:
O ...	O	O, A, B, AB
A ...	A, O	A, AB
B ...	B, O	B, AB
AB ...	O, A, B, AB	AB

Average kidney waiting times:

B = >3 yrs; O = 2-3 yrs; A = 2 yrs; AB = 1-2 yrs

These times may increase if antibody status is elevated.

Contraindications

- Age 80 or greater
- Recent malignancy - Five year waiting period may occur with certain malignancies
- Active or chronic untreated infection
- Advanced forms of major extrarenal complications (e.g., uncorrected coronary artery disease or advanced ischemic cardiomyopathy)
- LV ejection fractions of ≤25%
- Life expectancy of less than 1 year
- BMI >35
- Substance abuse - Requires 6 months abstinence with formal program
- Lack of funding
- Uncontrolled psychiatric disorder
- Lack of social/psychological support
- Lack of compliance

EVALUATION OF THE PATIENT PRIOR TO KIDNEY/PANCREAS TRANSPLANTATION

Cardiac:

- ⇒ Echocardiogram
- ⇒ EKG
- ⇒ Exercise Thallium Stress Test or dobutamine stress echo - males ≥40, females ≥50
- ⇒ Cardiac Catheterization indicated to diabetic patients with the following circumstances: ≥25 year history of insulin use, Type I & Type II with abnormal EKG, significant smoking history, with anginal type chest pain or abnormal systolic function

Non-Cardiac:

- ⇒ Abdominal sonogram
- ⇒ Chest X-ray
- ⇒ Colonoscopy - ≥50 years
- ⇒ Non invasive arterial studies of carotid arteries and lower extremities for patients with known peripheral vascular disease

Within previous 12 months:

Female Patients:

- Mammogram - ≥40 years
- Pap smear - ≥18 years
- Pelvic exam - ≥18 years

Male Patients:

- PSA- ≥50 years

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Advanced medical, surgical & transplant patient care

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Basic Information Regarding Living Donor Kidney Transplantation

Benefits of Living Donation:

- Recipients of related donor procedures may experience superior outcomes, as a close genetic match can reduce rejection risks.
- More complete histories (social, medical, etc.) may be available from living donors, which in turn allows more educated organ selection.
- Reduced cold ischemic time can benefit long-term organ function.
- The ability to plan ensures the recipient's and donor's health at the time of the surgeries.
- Reduced time on dialysis increases graft survival rates.

Criteria for Living Donor Consideration:

- Willingness
- Aged between 21 and 65 years old
- Height/weight proportionate
- No current disease or illness
- Blood type compatibility
- Acceptable medical evaluation results.

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