Kidney and Pancreas Transplant Program

Information for Potential Kidney Donors: What You Need to Know about Becoming a Kidney Donor

You have the power to Donate Life™
This booklet is designed to introduce you to the basic concepts of kidney donation. If you are thinking about being a donor for someone who needs a kidney transplant, we hope that you will find the booklet to be a useful resource.

At NewYork-Presbyterian/Weill Cornell Transplant Center, we have the largest Living Donor Kidney Program on the east coast and third largest in the United States, along with one of the top Kidney Paired Donation Programs (p.4). Although our focus is providing kidney transplants to patients in need, our living donor program is designed to first protect you, the potential kidney donor. We have separate medical teams for the donor and the recipient. You will be assigned an independent living donor team to help you through the evaluation and donation process, and always look out for your best interests.

Who Can Be a Donor?

The majority of kidney donors have an established relationship with the person needing a kidney: a relative, spouse, friend, co-worker, or neighbor. However, there are also people who wish to donate a kidney to someone, but do not have a specific recipient in mind. You must be at least 21 years old to be a living kidney donor at NewYork-Presbyterian/Weill Cornell, but there is no upper age limit for being a donor.

Here is a brief description of the types of donors:

- **Living Related**: Kidney transplants from a relative such as a parent, brother, sister, aunt, uncle, cousin or child.

- **Living Unrelated**: Kidney transplants from people unrelated to the recipient such as a husband, wife, partner, friend, co-worker, or neighbor.

- **Altruistic**: These donors want to donate a kidney but do not have a specific recipient in mind. There are several ways an altruistic donor can find someone to donate to, including joining registries of people who need a kidney but have an incompatible living donor.

What About My Health?

First and foremost, we need to make sure that you are healthy enough to donate a kidney. In particular, it is important to make sure that you do not currently have (or are at high risk for developing in the future) any diseases that could put you at risk for kidney problems of your own, including diabetes and uncontrolled high blood pressure. In addition, we need to make sure that you are healthy enough to undergo the surgery needed to remove the donated kidney.

A complete list of the testing you will have if you decide to come forward as a potential donor can be found later in this booklet.

Please also visit our Living Donor Kidney Center Online at www.WeillCornellTransplant.org/LivingDonor
What is Compatibility?

When coming forward as a donor, you may hear the term “compatibility” used quite often. This term simply means that we will be determining if you will be a good donor for your intended recipient. If you come forward as a potential donor for someone, several tests, described below, will be performed to assess your compatibility with the recipient.

Blood Type Compatibility

When looking at blood type compatibility, we use the same rules that are used for blood transfusion compatibility.

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Antigen Matching

Each person has unique markers on the cells in their body called antigens. The antigens help the immune system know when a foreign cell enters the body (for example, through a blood transfusion or transplant). There are 6 of these unique markers that we try to match when considering if someone will be a good donor for a specific recipient. These antigens are inherited from your parents. For parent-to-child or child-to-parent transplant, there is always a 3 out of 6 match. For siblings, that match is 0, 3, or 6 out of 6 matches.

Although matching can be important (for example, a 6 out of 6 match is known to be superior to other matches), it is not critical to the success of transplantation. In fact, many transplants that we perform have a 0 out of 6 match, and the recipients do well. Therefore, when you receive your match results, remember that the match is not a critical factor in determining your compatibility.

Crossmatch Compatibility

During the crossmatch, your blood is mixed with the blood of your potential recipient to determine if you are compatible. Some people who need a transplant may have developed antibodies in their blood that react against the blood of their donor. These antibodies may have developed as a result of blood transfusion, prior transplant, and/or pregnancy. This reaction is known as a “positive crossmatch.”

If the crossmatch is positive, we will look at how strong the reaction is. Remember that just because there is a positive crossmatch does not mean that you will no longer be considered a potential donor. There may be other options available.
What Are the Options When a Donor and Recipient Are Not Compatible?

The need for transplantable organs is critical. Over 550,000 people in the U.S. have end-stage kidney disease requiring dialysis and/or transplant. However, the number of deceased donors available to provide organs for transplant is not growing at the same rate. **The best way to increase the number of organ donors is through living donation. If you are tested to be a donor but are not compatible, it is important to remember that there are other options, which are briefly outlined below and on Page 5.**

**Kidney Paired Donation:**

Approximately **one-third of patients** that need a kidney transplant who come forward with potential living donors will be incompatible with their donor(s). This amounts to a large number of people who need a kidney and have a willing donor whose kidney doesn’t “match” them. One way to help solve this problem is to enter the incompatible donor and recipient into a **larger pool of other incompatible donor and recipient pairs.**

This “Kidney Paired Donation” (KPD) allows you and your recipient to be listed in a national database that gives both of you the ability to be matched with other donors and recipients who, like you, are in need of a compatible match. They may be located in different parts of the country. Using this database, your donor surgery will only be performed when a suitable match has also been found and scheduled for your recipient.

One benefit to KPD is that the recipient avoids the additional therapy needed for positive crossmatch or ABO incompatible transplants, which is described on Page 5. In addition, compatible pairs may also choose to participate in KPD in order to find a better genetic or age match for the recipient, or to avoid antibodies that may be harmful to the kidney in the long-term. **This matching process has greatly increased the ability of patients with willing but incompatible donors to receive a transplant.**

*Photo: When he found out he was an incompatible donor for his mother, Corey donated a kidney through the Kidney Paired Donation Program, enabling her to receive a kidney in return, as part of a chain.*
What Are the Options When a Donor and Recipient Are Not Compatible? Continued.

Transplanting Patients Who Have a Positive Crossmatch with Their Donor:
As mentioned earlier, some patients have developed antibodies which cause them to have a reaction against their donor. In some cases, we can reduce the antibodies and improve the crossmatch results by treating the patient who needs the kidney with medications and/or treatments that can decrease antibody levels. If antibody levels are sufficiently reduced and the crossmatch results improve, the transplant may be able to go forward.

Blood Type Incompatible Transplants:
For certain combinations of blood types, the incompatibility can be reduced by treating the person who needs the transplant with a treatment similar to what is described above for positive cross match transplants, and the transplant may be able to go forward.

Transplant from a Deceased Donor:
Even if a patient needing a transplant has potential living donors, all patients are placed on the waiting list for a deceased donor kidney (transplant from someone who has died and donated their organs) once they are determined to be eligible for a kidney transplant. That way, the patient can begin to accumulate waiting time in case the living donor(s) is incompatible and the options listed above are not feasible.

If I Can’t be a Living Donor, How Else Can I Help?

Kidney Champion Program
For people who need a kidney transplant, asking friends, co-workers, community members, and even family to consider donating a kidney can be a challenging task.

If you are not able to be a living donor for someone you know, another way to help him/her is to become a "Kidney Champion"—someone who is willing to ask around and educate people about kidney disease, and the options available to patients with the disease. Kidney champions can provide important information so that the patient does not have to feel awkward speaking to others about his/her health condition, including treatment options—dialysis or transplantation.

Find tools and templates to help educate others about living donation. For more information, visit:

www.WeillCornellTransplant.org/KidneyChampion
How Do I Become a Donor?

If you decide to become a donor, you will need to call our pre-transplant office at (212) 746-3922 and give them the name of the person you hope to donate to. Please understand, we will not call you—we do not want you to feel pressured into making this commitment. When you are ready, please call us. You will be asked routine questions (name, address, date of birth, social security #) and a brief medical history will be taken. You can then arrange to have the required testing done (initial testing may be done locally if you live far away).

Step 1

- Meet with the donor nurse coordinator
- Have blood drawn to perform compatibility testing
- Blood type, antigen profile, and crossmatch

Once you receive the results of these tests from us, you are responsible for telling your potential recipient the results if and when you choose. To protect your privacy, we will not disclose this information to your potential recipient. If you are compatible and decide to move forward, you must contact us at (212) 746-3922 to arrange to come in for additional testing to determine that you and your kidneys are healthy enough for donation. You will receive a comprehensive medical evaluation that is likely more thorough than any other you have had in the past. In consideration of you becoming a donor, we believe it is our responsibility to protect your current and future well-being.
Step 2

- You will collect your urine over the course of 24 hours, which will allow us to check the health of your kidneys (called a 24-hour urine collection) and blood tests will be performed

- Meeting with the donor team (nurse coordinator, physician, social worker, living donor advocate, financial specialist &/or psychiatrist)

- Electrocardiogram (electrical tracing of heart activity)

- Chest x-ray to make sure your lungs are healthy

- CT scan with 3D reconstruction to create a detailed anatomical road map of your kidneys to allow for the donor surgeon to visualize the blood supply to your kidneys

Other tests may be necessary based on your age, gender, and medical history:

**Women**
- Pap smear
- Mammogram (if over age 40 or strong family history of breast cancer)

**Men**
- PSA to check for prostate cancer if over age 50

**All**
- Colonoscopy if over age 50
- Stress test and echocardiogram if history of high blood pressure or as determined by your team

Step 3

If all the testing done during Step 2 show that you may still be a donor, we will set the date for the transplant (as long as your recipient has also been cleared for transplant and you still wish to be a donor), and you will come back one week prior to the scheduled transplant for the following:

- Final Crossmatch to confirm that there is no reaction when you & your recipient’s blood are mixed
- Meet with your surgeon
- Visit the hospital to complete pre-operative paperwork
Informed Consent

During your evaluation, your team will take you through the informed consent process, which should help you all aspects of the donation process, including the risks and benefits. Your consent to be a donor is completely voluntary. You should never feel pressured to be a donor, and you have the right to delay or stop the donation process at any time. The reasons behind your decision will be kept confidential. Talk in detail with your family members and close friends. Talk to other living donors (we can connect you with others who have donated through our program).

Please see the back of this booklet and visit our website: www.WeillCornellTransplant.org/Living Donor for a comprehensive list of resources.

Independent Donor Advocate Team

As you move through the living donor evaluation process, our priority is to keep your best interests in mind. You will meet with an Independent Donor Advocate (IDA) team, who will assist you through the donation process. This team is separate from the potential transplant recipient’s medical team. The IDA’s responsibilities include, but are not limited to:

- Promoting the best interests of the potential donor
- Advocating for the rights of the potential donor
- Assisting the potential donor in getting and understanding information regarding the:
  1) Consent process
  2) Evaluation process
  3) Surgical procedure
  4) Medical and psychosocial risks
  5) Importance of post-donation follow-up

Your Independent Donor Team can address any questions you have. We always encourage you to be honest with the IDA team and other transplant center staff about your feelings or concerns about being a donor.

Living Donor Mentor Program

We offer opportunities for potential living donors to connect via phone with living donors who have been through the donation process. This provides the chance to ask questions and hear feedback from those with firsthand experience with living donation. Talk to your social worker or your Independent Donor Advocate Team if you are interested in connecting with other living donors.
What are the Risks Associated with Being a Kidney Donor?

If you are considering being a kidney donor, it is very important that you understand the risks associated with donation. Please note that there has been little national systematic long-term data collection on the long-term risks of living donation. Based on the limited information that is available, long-term risks are considered to be low. Please note that the risks will be different for every donor and your donor team will inform you of any risks specific to you after your evaluation. Please do not hesitate to ask questions if you do not understand some of the risks or if you would like more information.

Short-term Risks:

- You may experience emotions such as anxiousness, guilt, and peer pressure when you are considering being a donor
- The risk of this surgery is similar to other minimally invasive procedures (such as gallbladder removal) that require you to undergo general anesthesia
- You may experience one or more of the following after your surgery: pain, bleeding, reaction to anesthesia, and infection. Other complications that are more rare include blood clots, pneumonia, injury to surrounding tissue or other organs, and in 0.003% of cases, death.

After Donation:

- Emotions may be strong after donation, including anxiousness, regret, anger, and depression. Your donated kidney may not function in the recipient after it is transplanted.
- It is very rare to develop kidney problems after donation, however, it is possible, especially if you develop high blood pressure or diabetes
- Financial issues may develop after donation
  - If you experience any complications after donation, you and/or your recipient’s insurance may not cover the costs associated with those medical bills
  - You may face extra expenses related to child care needs, transportation, and housing, and may have lost wages during your recovery period
  - You could have difficulty obtaining health or life insurance if you apply after donation, therefore it is important for you to clarify, and if necessary, optimize your health insurance situation prior to donation

Photo: Ariel (left) donated to his cousin-in-law, Roberto.
What are the Benefits of Being a Kidney Donor?

The opportunity to help someone lead a more normal life with improved quality is a wonderful gift that the donor offers to their recipient. Donors feel good about themselves when performing such a selfless act. **Living donation generally gives the recipient a kidney that will function better and last longer than a deceased donor transplant.** This also allows the patient to get a transplant much more quickly than remaining on the waiting list, and may provide emotional benefit to the donor.

Many advances have been made since the days when an open surgery was needed to remove the donated kidney. **Today’s minimally invasive surgery to remove the kidney allows a much shorter hospital stay and overall recovery time for the donor.** Studies have shown that over the long-term, donors do not experience deterioration in the function of their remaining kidney. Female donors can also have successful pregnancies after donation.

Our History & Outcomes of Living Donation

Since 2000, the NYP/Weill Cornell Transplant Center has performed more than 1,250 living donor kidney transplants and is one of the highest volume centers for kidney exchanges in the nation. Our Program ranked #1 on the East Coast and #3 in the U.S. for the number of living donor transplants performed in 2013.
What Should I Expect During the Surgery and for My Recovery?

Kidney donation is a minimally invasive surgery, which means that several small incisions are made, and the instruments used by the surgeon are placed through those incisions and used to remove your kidney (called a nephrectomy). It is known as a “laparoscopic” surgery because a camera is one of the instruments used by the surgeon.

The small incisions allow you to recover faster with minimal scarring. As part of the evolution of this technique, NYP/Weill Cornell is now one of the first centers in the New York Tri-State area to perform a “single-port” nephrectomy, in which only one incision is required for the donor operation, which can further reduce scarring.

The Surgery & Your Hospital Stay:
- The surgery to remove your kidney generally takes 2 to 3 hours
- You can expect to be up and walking within a few hours after surgery
- You can also expect to be able to eat several hours after surgery (liquids first, then solid food)
- The usual hospital stay is 1 to 2 days after the surgery

Your Recovery:
- Most donors can return to full normal activity and go back to work 2 to 4 weeks after their surgery

Follow-Up After Donation:
- The United Network for Organ Sharing (UNOS) requires that all living kidney donors return for follow-up at 6 months, 1 year, and 2 years after donation. At these brief visits, we will take blood and urine so that we can follow the function of your remaining kidney. If you live out of state, you can have the testing done at your local doctor’s office, who can then send the results to us.
Donor Resources

The following websites may be of interest to people wishing to learn more about being a kidney donor:

- Transplant Living Website: [http://www.transplantliving.org](http://www.transplantliving.org)
- Living Donors Online: [www.livingdonorsonline.org](http://www.livingdonorsonline.org)
- National Kidney Registry: [www.kidneyregistry.org](http://www.kidneyregistry.org)
- Donate Life America: [www.donatelse.net](http://www.donatelse.net)

It is important that donors have health insurance. The following are a few insurance options available in New York State; please discuss options further with your Social Worker:

- Medicaid: [www.medicaid.gov](http://www.medicaid.gov) 1-800-541-2831
  Health insurance that helps many people who can’t afford medical care to pay for some or all of their medical bills. You must meet certain requirements, including financial ones, to be eligible for Medicaid which are determined by each state.

- New York State of Health: [www.nystateofhealth.ny.gov](http://www.nystateofhealth.ny.gov) 1-855-355-5777
  An organized marketplace designed to help individuals, families, and small businesses shop for and enroll in health insurance options. The Marketplace also helps individuals check their eligibility for health insurance programs like Medicaid and sign up for these programs if they are eligible.

The following are resources available for Living Donor Financial Assistance; if interested, please discuss further with your Social Worker:

- The National Living Donor Assistance Center: [www.livingdonorassistance.org](http://www.livingdonorassistance.org) 1-888-870-5002
  Covers some of the travel and non-medical expenses incurred by individuals being evaluated for or undergoing living donation. There are eligibility requirements and an application process. Eligibility is based partially on recipient’s finances and priority will be given to those donors who cannot otherwise afford the expenses.

- American Kidney Fund: [www.kidneyfund.org](http://www.kidneyfund.org) 1-800-638-8299
  Provides a one time grant within three months after donation to assist with transportation and loss of wages for donors.

Contact Us:

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