



Brigham and Women's Kidney Transplant Program



Guide to Kidney Living Donation

www.brighamandwomens.org/renaltransplant

Kidney Transplant Program

75 Francis Street

Boston, MA 02115

Tel: 617.732.6866

Fax: 617.394.3217

Dear Potential Donor,


Welcome to the Kidney Transplant Program at Brigham and Women's Hospital. We know the evaluation process can be a challenging experience, which is why we are committed to providing you all the necessary information, while working with you closely throughout the entire process.

Your work-up consists of medical, surgical, and psychosocial tests. The medical evaluation will be done by our Donor Nephrologist. Your surgical evaluation will be done by one of our Transplant Surgeons. Additionally, you will meet with our Transplant Social Worker to ensure that you are emotionally prepared to undergo a major surgical procedure and recover successfully after donation, as well as have the appropriate support to do so. Our Living Donor Nurse Coordinator will serve as your main point of contact during the evaluation period. They will be responsible for coordinating your tests and appointments and providing you with health information or test results. In addition, an independent living donor advocate (ILDA) will be available to assist you during the evaluation process. The information obtained during your evaluation will be confidential and not shared with your recipient or recipient's family. The health information obtained during your evaluation will be subject to the same regulations as all records and could reveal conditions that we must report to local, state, or federal public health authorities.

Upon completion of the evaluation, we will notify you if you are approved to donate your kidney to your intended recipient or through the National Kidney Registry matching program. You may be advised not to donate your kidney. In such cases, you could be evaluated by another transplant program that may have different selection criteria.

Please look over this packet to fully understand the commitment and requirements that are involved in becoming a living kidney donor. If at any time during the process you have questions and/or concerns, please contact our staff directly.

Sincerely,



Stefan G. Tullius, MD, PhD, FACS
Program and Surgical Director
Kidney/Pancreas Transplant Program



Jamil R. Azzi, MD, PhD
Interim Medical Director
Kidney/Pancreas Transplant Program

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Members of the Living Kidney Donor Team

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DAYTIME: Monday – Friday, 8:00a – 4:30p
Call the Transplant Surgery office at 617.732.6866, Option 3

For non-urgent questions and appointment changes, please use Patient Gateway/MyChart.

- Allow 3 days for routine messages.
- Not staffed outside of normal office hours
- Handled by the care team, not just the doctor.
- Not for new symptoms or possible emergencies

For emergencies, or questions after 4:30 pm, weekends, or holidays:

Call the BWH Operator: 617.732.6660
Ask for the “Renal Transplant Surgery Resident On-Call”

Living Donor Coordinator:

Kristen Pelletier, RN

Tel: 617.732.8683

Fax: 617.394.3217

Office Hours: Tuesday, Thursday, Friday

Living Donor Coordinator:

Annemarie Dunn-Morgan, RN

Tel: 617.278-0030

Fax: 617.394.3217

Office Hours: Monday, Wednesday, Friday

Social Worker:

Ashley Abreu, LICSW

Tel: 617. 732.7882

Fax: 617.394.3217

Social Worker:

Annette Pimenta, LICSW

Tel: 617.732.6480

Fax: 617.394.3217

Living Donor Administrative Assistant:

Astriti Dihingia

Tel: 617.525-3823

Fax: 617-394-3217

Surgery Physician Assistant:

Trisha Auduong, P.A.-C

Tel: 617.525.8239

Fax: 617.394.3217

Donor Surgeon:

Dr. Sayeed Malek

Tel: 617.732.6446

Fax: 617.394.3217

Donor Nephrologists:

Dr. Martina McGrath

Dr. Emily Robinson

Dr. John Choi

Tel: 617.732.6383

Financial Coordinator:

Linda Jones

Tel: 617.525.3155

Fax: 617.525.0511

Independent Living Donor Advocate (ILDA)

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The Independent Living Donor Advocate (ILDA) is an advocate for you and guarantees that your rights as a living donor are protected. This person is empowered with full veto-authority if they believe donation is ill-advised. The ILDA is employed by Brigham and Women's Hospital but is not a member of our Transplant Team. Your ILDA is available throughout the whole donation process, should you have any questions or concerns.

Specifically, the ILDA ensures that you, as a donor, are informed of your right to opt out of donation – in a protected and confidential way – at any time during the process. They ensure that the reasons for opting out remain private. Additionally, the ILDA makes certain that your decision to donate was not influenced by coercion.

The ILDA is not involved with the recipient evaluation and is completely independent of the decision to transplant a potential recipient. The ILDA is a knowledgeable advocate for you, with the goals of promoting your best interests and your rights and assisting you in obtaining and understanding information regarding donation. This person demonstrates current knowledge of living organ donation, transplantation, medical ethics, and informed consent.

Please contact your ILDA at:

Care Coordination:

Tel: 617.732.6469

Social Work Services

75 Francis Street

Brigham and Women's Hospital

Boston, MA 02115

As a potential living kidney donor, you need to be aware of the following disclosures. If you have any questions, please discuss them with your Living Donor Nurse Coordinator (Tel: 617.732.6866, option 3).

- Programs determine candidacy for transplant based on existing program guidelines and clinical judgment.
- It is a federal crime for an organ to be sold or paid for by an item of value, such as property or vacations.
- BWH will take all reasonable precautions to provide confidentiality for the donor and recipient.
- Recovery hospitals must provide an independent living donor advocate (ILDA).
- The day of donation surgery, recovery hospitals must collect and store a living donor blood specimen for ten years, only to be used for investigation of a potential donor-derived disease.

Healthcare Information Confidentiality:

- Health information obtained during the evaluation is confidential and not shared with your recipient or their family.
- Health information obtained during the donor evaluation is subject to the same regulations as all records and could reveal conditions that we must report to local, state, or federal public health authorities.
- The recovery hospital can disclose to the living donor certain information about the transplant candidates, only, with the permission of the candidate, including:
 - The reasons for the transplant candidate's increased likelihood of adverse outcomes.
 - Personal health information collected during the transplant candidate's evaluation, which is confidential and protected under privacy law.
- Any infectious disease or malignancy relevant to acute recipient care discovered during your first 2 years of post-operative follow-up care:
 - may need to be reported to local, state, or federal public health authorities.
 - will be disclosed to the recipient's transplant center.
 - will be reported in Organ Procurement and Transplantation Network (OPTN) Improving Patient Safety Portal

Option to Opt-Out:

- As a donor, you have the right to decline to donate at any time. Additionally, you may discontinue the donor consent or evaluation process if you wish; you may do so in a way that is protected and confidential. The ILDA is available to assist you during the consent process.

Availability of Alternative Treatments for Recipient:

- A deceased donor kidney may become available for the recipient before the donor evaluation is completed or the living donor transplant occurs.
- The recipient may remain on dialysis.

Post-Donation Kidney Function: How might the donor be affected by Chronic Kidney Disease (CKD) or End Stage Renal Disease (ESRD) in the future:

- On average, donors will have a 25-35% permanent loss of kidney function at donation.
- Although risk of ESRD for living kidney donors does not exceed that of the general population with the same demographic profile, risk of ESRD for living kidney donors may exceed that of healthy non-donors with medical characteristics like living donors.
- When CKD or ESRD occurs, CKD generally develops in mid-life (40-50 years old) and ESRD generally develops after age 60. The medical evaluation of a young potential donor cannot predict lifetime risk of CKD or ESRD.
- Donors may be at a higher risk for CKD if they sustain damage to the remaining kidney. The development of CKD and later progression to ESRD may be more rapid with only one kidney.
- Dialysis is required when reaching ESRD.
- Living donors who develop ESRD and are listed for kidney transplant receive priority to receive a kidney more quickly.

What is living donation?

Living donation takes place when a living person donates an organ to another person.

Who can be a living donor?

You don't have to be in perfect health to donate an organ, as long as the organ you donate is healthy.

- People of any age can sign up to be organ donors. In many states there's no minimum age. An adult might have to sign for someone under age 18.
- To be a living donor, you must be:
 - In good general health.
 - Free from diseases that can damage the organs. These include diabetes, uncontrolled high blood pressure, and cancer.
- If you are or may someday become pregnant, talk with your doctor. Donating an organ could affect your future pregnancies.

You must be fully informed of the risks involved and complete a full medical and psychosocial evaluation. Your decision to serve as a donor should be completely voluntary and free of pressure or guilt.

Is there payment or reimbursement for becoming a Living Donor?

A living donor cannot be paid for the donated organ because it is illegal under the National Organ Transplant Act of 1984. In certain circumstances, living donors may receive reimbursement for certain expenses related to the donation process. Talk to a transplant social worker or transplant financial coordinator for more information.

How can I be a living kidney donor to someone I know?

Speak with your Transplant Nurse Coordinator, who can give you additional information about living donation. If you live far away from the transplant center, you can speak to the nurse coordinator over the phone, and he/she can coordinate your testing locally.

To donate a kidney, you must be in good health and have normal kidney function. If the donor meets the criteria for donation, testing will be required to check for further compatibility.

Before surgery, the donor will receive education and counseling to help prepare mentally and emotionally for the donation and recovery. If the donor has questions, the transplant team can help.

Once all the testing has been successfully completed, the operation is scheduled. The donor and recipient are in adjacent operating rooms. The kidney is carefully removed and transplanted into the recipient. The surgery takes about three to five hours.

When a kidney is removed from a living donor, the donor's remaining kidney takes over the work of both kidneys. Studies show that long term health is not usually negatively impacted.

What are my options if the recipient does not have the same blood group as the donor?

For those who do not have the same or compatible blood group, there are options such as the OPTN/UNOS Kidney Paired Donation Pilot Program (KPDPP) and the National Kidney Registry (NKR). This involves two pairs of potential living kidney donors and transplant candidates who are not compatible. The two candidates "trade" donors so that each candidate receives a kidney from a compatible donor. In some cases, this type of exchange has involved multiple living kidney donor/transplant candidate pairs and centers. An additional option is a plan for a scheduled living donation to occur (Advanced Donation Program) in tandem with a plan for a recipient transplant weeks to months later from a compatible donor.

What are my options if the recipient has an ‘activated immune system’ and may reject the transplant?

Some patients have a sensitized or ‘activated immune response’ against donor organs. We offer a special technique, called *plasmapheresis*, which acts on the recipient’s immune system to allow a successful organ transplant in these situations. In very rare instances, we can also do successful organ transplants if donor and recipient do not have the same or compatible blood type.

Who pays for living donation?

Living donors are not responsible for costs related to their pre-transplant evaluation process. The hospital’s Kidney Acquisition Fund (a Medicare-regulated fund) covers all kidney transplant donor evaluation charges at the current geographically adjusted Medicare allowable rate of reimbursement. The cost of the living donor’s surgery and post-operative care is generally paid for by the recipient’s health insurance. The transplant recipient’s ability to have his or her immunosuppressive drugs paid for under Medicare Part B could be affected if the transplant is not provided in a Medicare-approved transplant center. Future health problems experienced by living donors following donation may not be covered by the recipient’s insurance.

Related costs like travel, parking, room and board, time out of work, and the donor’s discharge pain medication prescription are not covered by the hospital’s Kidney Acquisition Fund or the recipient’s health insurance. However, our center partners with NKR offer [Donor Shield](#), a comprehensive program designed to protect living kidney donors, make kidney donation easier and more convenient through every step of the process.

Routine medical care is not covered (e.g., Pap smear, mammogram, colonoscopy). Also, if during the donor evaluation there are abnormal results that need follow-up, this may need to go through the donor’s insurance if it is not seen as part of the donor evaluation. Our transplant financial coordinator can answer any questions you have about the cost of donation. The transplant social worker and donor coordinator can talk with you further about concerns related to travel expenses and lost wages.

What are the different types of surgery?

A kidney can be removed by the minimally invasive technique or open surgery. The minimally invasive technique involves three small incisions to introduce the special instruments that dissect the kidney. There is another incision approximately three inches to assist removal of the kidney.

We currently use the following method:

- laparoscopic hand assisted retro-peritoneal donor nephrectomy

Seldom do donors need an open surgery due to previous surgeries or anatomical variations. Very rarely, scheduled minimally invasive donations must be converted to the open technique during the surgical process. The open technique involves a five-to-seven-inch incision and is rarely used at Brigham and Women’s Hospital.

How long will I be in the hospital?

The average stay for the donor is one to three days after surgery. During the hospital stay, the transplant team will monitor the donor’s pain level, hydration, and ability to tolerate fluids/food, as well as emptying of the bladder. An important part of the recovery process includes the patient being able to walk soon after surgery.

How long does it take to recover and go back to work?

You should allow four to six weeks for recovery. The goal is to be back to normal health within two to three months. Most donors are back to work at four to six weeks, but this can vary depending on the person and the type of job. You cannot drive for one week; if you are still taking narcotics, it will be longer than one week. You cannot lift, push, or pull over 20lbs for 12 weeks after donation. This may affect your ability to return to work.

****Source: United Network for Organ Sharing (UNOS), Living Donation: Information you need to know***

Evaluation and Donation Risks

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The following surgical, medical, psychosocial, and financial risks are associated with living kidney donation. These risks may be temporary or permanent and include, but are not limited to the following:

Inherent Risks Associated with Evaluation for Living Donation:

- Allergic reactions to contrast
- Discovery of reportable infections
- Discovery of serious medical conditions
- Discovery of adverse genetic findings unknown to the donor
- Discovery of certain abnormalities that will require more testing at the donor's expense or create the need for unexpected decisions on the part of the Transplant Team

Potential Medical or Surgical Risks:

- Death
- Scars, blood clots, pneumonia, nerve injury, pain, fatigue, and other consequences typical of any surgical procedure
- Decreased kidney function
- Abdominal or bowel symptoms such as bloating and nausea and developing bowel obstruction
- Kidney failure (either acute in the immediate post op period or chronic) and the need for dialysis or kidney transplant for the donor
- Impact of age, obesity, hypertension, or other donor-specific medical condition on the health and life span of the donor
- Injury to bowel or other abdominal organs (e.g., spleen, liver)
- Pneumothorax
- Incisional hernia
- Wound infection
- Neuropathy
- Risk of preeclampsia or gestational hypertension are increased in pregnancies after donation

Potential Psychosocial Risks:

- Problems with body image
- Post-surgery depression or anxiety
- Feelings of emotional distress or bereavement if the transplant recipient experiences any recurrent disease or in the event of the transplant recipient's death
- Effect of donation on the donor's lifestyle
- Effect of donation on the donor and recipient's relationship, or other relationships

Potential Financial Risks:

- Personal expenses of travel, housing, childcare costs, and lost wages related to donation are not reimbursed; however, resources might be available to defray some donation-related costs
- Need for life-long follow-up at the donor's expense
- Need for donor to maintain health insurance
- Loss of employment or income
- Negative impact on the ability to obtain future employment
- Negative impact on the ability to obtain, maintain, or afford health, disability, and life insurance

The Living Donor work-up consists of comprehensive medical, surgical, and psychosocial evaluation. Before an appointment is scheduled, all potential donors are screened over the phone to ensure there are no absolute contraindications for donation (reasons why someone cannot safely be a donor).

Absolute Contraindications:

- ☐ Both less than 18 years of age and years and mentally incapable of making an informed decision
- ☐ High blood pressure and age ≤ 50 years
- ☐ Uncontrollable hypertension or history of hypertension with evidence of end stage organ damage
- ☐ Diabetes mellitus (DM), or diabetes mellitus in both parents
- ☐ Gestational DM or pre-eclampsia plus age < 50 years
- ☐ Early onset gout (< 30 male and pre-menopausal in females) and first degree relative with ESRD
- ☐ Intrinsic renal disease
- ☐ History of blood clotting problems
- ☐ Microalbuminuria ≥ 30 mg/24 hours or greater
- ☐ HIV/AIDS, Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) infection or evidence of other acute symptomatic infection (until resolved)
- ☐ Hereditary nephritis
- ☐ Coronary artery disease
- ☐ Symptomatic valvular disease
- ☐ Chronic lung disease with impairment of oxygenation or ventilation
- ☐ Urologic abnormalities of donor kidney
- ☐ Peripheral vascular disease
- ☐ Medications causing kidney dysfunction
- ☐ Obesity (Body Mass Index > 30 kg/m²)
- ☐ Gastric Bypass
- ☐ Positive Sickle Cell Trait
- ☐ Uncontrolled psychiatric illness*

*It is important to identify donors with anxiety, depression or other mental conditions that are not being appropriately treated, which may make them unsuitable as living donors

Relative Contraindications: some patients in these categories may be considered, depending on donor motivation and recipient need.

- ☐ Age 18-25
- ☐ Distant history of cancer
- ☐ Kidney stones
- ☐ Psychiatric issues
- ☐ Renovascular disease
- ☐ Prior valve surgery
- ☐ Moderate cardiac valvular disease
- ☐ Mild sleep apnea
- ☐ Hypertension controlled with one medication

Please note that if the initial phone screen does not reveal any contraindications to kidney donation, the patient will move forward with a psychosocial and medical evaluation.

Medical Evaluation: The goals of the medical evaluation are to:

- Assess the immunologic compatibility of the donor to the recipient
- Assess the general health and surgical risk of the donor including screening for conditions that may predict complications from having one kidney in the future
- Determine if there are diseases present that may be transmitted from donor to recipient
- Assess the anatomy and function of the kidneys

A dedicated donor nephrologist will conduct a medical evaluation for all living donors. If one year passes by and transplantation has not occurred and the donor is still deemed suitable for transplant, a telephone screening by the living donor coordinator will be performed to assess for any new medical conditions and medications. Additionally, basic lab work will need to be repeated. Patients may need to be seen at our transplant center again at one year if there have been significant changes in medical status or conditions. Potential donors are evaluated for conditions that are contraindications to donation. Currently, these conditions include diabetes, HCV, HIV, cancer, and vascular disease. Lastly, the evaluation needs to assess the risk of transmission of disease to the recipient that would negatively impact his/her life. The medical evaluation is considered current for 2 years; if 2 years passes and the transplant has not happened, the patient will be reviewed again by the multidisciplinary team who will determine what follow-up and re-evaluation testing is needed.

a. Donor typing to determine the risk for acute transplant failure

- ABO blood group typing x 2
- Human Leukocyte Antigen (HLA) typing
- Cross match

General and Physical Examination - conduct a general exam, as well as a history, with a focus on the following:

- Family history of kidney disease, coronary artery disease and cancer
- Diabetes
- Hypertension (high blood pressure)
- Coronary artery disease
- Gestational diabetes
- Clotting disorders or deep venous thrombosis
- Use of Non-steroidal Anti-inflammatory Drugs (NSAID's) (i.e., ibuprofen, indomethacin)
- Urinary tract infections
- Nephrolithiasis (kidney stones)
- Chronic infections
- Acute or chronic kidney injury
- Cancer
- Heart disease
- Lung disease

Physical Examination to include:

- Blood pressure x 2 (perform a 24-hour blood pressure monitor if clinically indicated)
- Height and weight
- Calculated Body Mass Index (BMI)
- A search for evidence of heart, lung, liver, and blood vessel disease, and abnormal lymph node and large spleen

Medical Psychological Evaluation and Social History should include questioning about:

- Alcohol intake
- Smoking history
- Substance Abuse and history
- Risk assessment as outlined in the 2020 US Public Health Service Guideline
- History of mental illness and treatment used

b. General Laboratory (Blood) Tests

- Complete Blood Count (CBC) with platelet count
- Prothrombin time / Partial thromboplastin time (PT-INR/PTT)
- Fasting Lipid profile, Electrolytes, Blood Urea Nitrogen (BUN), Creatinine, Calcium, Phosphate, Liver Function Tests (LFTs)
- Sick cell screening test for African Americans
- Human Chorionic Gonadotropin (HCG) quantitative pregnancy test for women of child-bearing age

c. Cardiovascular – Heart and Blood Vessel tests

- Chest x-ray
- Electrocardiogram (ECG)
- Echocardiogram (ECHO) or Exercise Tolerance Test (ETT) as indicated by history and physical examination
- Pulmonary function tests (PFTs) for smokers as appropriate for perioperative management of asthma or other clinical findings
- Vascular duplex or angiography, if clinically indicated for cerebral nervous system, gastrointestinal or peripheral limb symptoms

d. Renal Focused Evaluation

- Urinalysis (UA): look for protein and cells in the urine
- Urine culture
- Protein excretion: 24-hour urine for protein and microalbumin excretion two different times.
- Serum (blood) creatinine
- Glomerular filtration rate (GFR) measurement-clearance testing, 24-hour urine for creatinine clearance measurement must be done two different times. If consistent low results, a nuclear GFR test may be required. Calculated GFR measurements using the serum creatinine are not felt to be adequate.
- Screen for Polycystic Kidney Disease (PKD) as indicated by family history: Ultrasound if over 30 years old; genetic testing if younger than age 30 is required. If this applies to you, please discuss with your Transplant Team.

e. Metabolic Focused Evaluation

- Fasting blood glucose and HgbA1C (oral Glucose Tolerance Test if clinically indicated)
- Uric acid
- Fasting lipid profile (Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol)
- Determine the number of elements of the metabolic syndrome present, consent for risk \geq risk factors
- If the risk of diabetes is higher than the general population by presence of a first degree relative with diabetes or the presence of metabolic syndrome characteristics but the prospective donor does not meet the definition of diabetes, they should be counseled that they are at an increased risk to develop diabetes.
- Genetic testing may be required after speaking with the nephrologist

f. Infection

- Cytomegalovirus (CMV)
- Epstein Barr Virus (EBV)
- Human immunodeficiency virus (HIV)
- Hepatitis B
- Hepatitis C
- Syphilis
- Strongyloides
- Herpes Simplex Virus (HSV)

Geographically/environmentally determined testing:

- Tuberculosis
- Toxoplasmosis (depending upon exposure risk)
- Coccidiomycosis
- Schistosomiasis
- Malaria
- HHV-8
- West Nile
- HHV-6
- Trypanosoma cruzi

- g. Cancer Screening:** Conduct a cancer screening which attempts to determine if the donor does not need both kidneys to help with tolerance of anti-cancer treatment and that the donor does not have a tumor that would be transferred to the recipient.

Testing to be performed depends upon gender, age, or family history and consistent with the [American Cancer Society \(ACS\)](#) or the U.S. Preventative Services Task Force, to screen for:

- Cervical Cancer (i.e., HPV test, pap smear)
- Breast Cancer (i.e., mammogram)
- Prostate Cancer (i.e., PSA blood testing)
- Colon Cancer (i.e., Stool-based tests, Colonoscopy)
- Skin Cancer (i.e., Dermatology skin assessment)
- Lung Cancer (i.e., Low dose chest computerized tomography (CT) with smoking history)

Surgical Evaluation: The donor will meet with one of the Transplant Surgeons to determine which kidney is the best to remove. Almost all donors (right and left) are done using a laparoscopic hand-assisted technique. The kidney with the best function should preferentially remain with the donor. An assessment to determine whether the kidneys are of equal size or have masses, cysts, stones, or other anatomical defects and to determine which kidney is more anatomically suitable for transplantation.

- a. A CT angiogram will help determine which kidney will be removed.
- b. An abdominal ultrasound may be necessary to evaluate the liver for fatty infiltration and unexpected abnormalities of the liver, pancreas, and spleen.
- c. A Renal function scan may be required to help determine which kidney will be removed.

Psychosocial Evaluation: The potential donor can stop the evaluation or donation process at any time if they are uncomfortable about continuing. The medical team will inform the potential donor that if this occurs, the medical team can, if the potential donor prefers, state that the potential donor is not an acceptable candidate, without providing specific reasons for this decision. The psychosocial evaluation will be done by a licensed mental health professional, likely a licensed clinical social worker or psychiatrist experienced in the transplant process. The evaluation is deemed current for 2 years; if 2 years passes and the transplant has not happened, the patient will be reviewed again by the multidisciplinary team who will determine what follow-up and re-evaluation testing is needed. The goals of the psychosocial evaluation are:

- a. To identify and appraise any potential risks for poor psychosocial outcome, including risks related to the individual's psychiatric history or social stability
- b. To ensure that the prospective donor comprehends the risks, benefits, and potential outcomes of the donation for herself or himself and the recipient, and that the donor understands that there is little data on what the long-term psychosocial outcomes are.
- c. To assess the donor's capability to make the decision to donate, and his/her ability to cope with the major surgery and related stresses.
- d. To assess donor motives and the degree to which the donation decision is made free of guilt, undue pressure, enticements or coercions, or impulsive responses.
- e. To review lifestyle circumstances (e.g., employment, family relationships) that might be affected by donation.
- f. Ensure that the prospective donor's cognitive status and capacity to comprehend information are not compromised and do not interfere with judgment and determine risk for exploitation.
- g. Establish the presence or absence of current and prior psychiatric disorder, including but not limited to mood, anxiety, substance use and personality disorders. Review current or prior therapeutic interventions (e.g., counseling, medications); physical, psychological, or sexual abuse; current stressors (e.g., relationships, home, work); recent or significant losses; and chronic pain management. Assess repertoire of coping skills to manage previous and current life or health related stressors.
- h. Review the nature and degree of closeness (if any) to the recipient, (e.g., how the relationship developed); and whether the transplant would impose expectations or perceived obligations on the part of either the donor or recipient.
- i. Explore the rationale and reasoning for volunteering to donate, in other words, the "voluntariness," including whether donation would be consistent with past behaviors, apparent values, beliefs, moral obligations, or lifestyle. Determine whether the potential donor's decision would be free of coercion, inducements, ambivalence, impulsivity, or ulterior motives (e.g., to atone or gain approval, to stabilize self-image, or to remedy a psychological malady).
- j. To identify any factors that warrant educational or therapeutic intervention before donation can proceed.
- k. Donor's knowledge, understanding, and preparation: explore the prospective donor's awareness of the following:
 - any potential short and long-term risks for surgical complications and health outcomes, both for the donor and the transplant candidate
 - recovery and recuperation time
 - availability of alternative treatments for the transplant candidate
 - financial ramifications (including possible insurance/life insurance risks)
- l. Assess the prospective donor's understanding, acceptance, and respect for the specific donor protocol (e.g., willingness to accept potential lack of communication from the recipient and the donor's willingness to undergo future donor follow-up.)
- m. Determine that support systems are in place and ensure a realistic plan for donation and recovery, with adequate social, emotional, and financial support and resources. Determine whether the prospective donor is financially stable and free of financial hardship; has resources available to cover

financial obligations for expected and unexpected donation-related expenses; can take time away from work or established role, including unplanned extended recovery time; and has disability and health insurance.

- n. The prospective donor should be advised that the information contained in the report will be subject to the same regulations as regular medical records and may not be additionally protected. To protect the donor, whenever possible, the more sensitive questions should be at the end of the psychosocial evaluation. Therefore, if the evaluator determines earlier in the evaluation that the individual is not an appropriate candidate, the more sensitive questions will not be asked, and the answers will not appear in the report.

Donor Evaluation Schedule

The following are the tests required for kidney donation evaluation. ***Please note that you should be fasting when you do the Preliminary donor testing.*** The 24-hour urine sample ***must*** be brought to the lab the day the collection is completed, and you ***need*** to have your blood drawn when you drop it off. Routine health maintenance and cancer screening will need to go through the donor's insurance (not the recipient's insurance.)

1. Preliminary Donor Testing *(Please note abnormal results may need to be repeated)*

☐ **FASTING Blood Tests:**

- ☐ Fasting glucose
 - ☐ Fasting lipid panel
 - ☐ Electrolytes
 - ☐ BUN, creatinine & eGFR
 - ☐ Calcium, phosphate
 - ☐ Uric acid
 - ☐ Liver function panel
 - ☐ Hgb A1c
 - ☐ Complete blood count with diff (CBC)
 - ☐ PT/PTT/INR
 - ☐ Cystatin C & eGFR
 - ☐ HIV
 - ☐ Hepatitis B surface antigen
 - ☐ Hepatitis B core antibody
 - ☐ Hepatitis B surface antibody
 - ☐ Hepatitis C antibody
 - ☐ RPR/TPA (syphilis test)
 - ☐ Strongyloides antibody
 - ☐ ABO (blood type)
- ☐ 75 gm glucose tolerance test (required if abnormal Hgb A1c OR 1st degree relative with diabetes)

Testing for specific gender/race:

- ☐ PSA for applicable men
- ☐ Sick cell test for African Americans
- ☐ Urine pregnancy test in women, if indicated

Urine (spot sample)

- ☐ Urinalysis (urine dipstick)
- ☐ Spot urine for albumin/creatinine ratio (this is testing for microalbuminuria)
- ☐ Spot urine for protein/creatinine ratio
- ☐ Urine culture

24-hour urine collection*** for:

- ☐ Urine creatinine
- ☐ Creatinine clearance
- ☐ Urine microalbumin
- ☐ Urinary total protein

*****Please check a blood creatinine with the 24hr urine collection. We need both values to calculate the creatinine clearance*****

Instructions for 24-hour urine collection

1. Empty your bladder first thing in the morning when you wake up, and please remember to note the time. You will be starting with an empty bladder. Do not include this urine in the collection.
2. Collect **ALL** urine for the next 24 hours in the empty container provided.
3. Stop your test the next morning at the same time you noted the day before and include this final urine in the container, as well.
4. Bring your container to the office where you will pick up your lab slips. **You will also need to have blood drawn.**
5. Drop off specimen to the lab

2. On Campus Evaluation Day

You will need to come to Brigham and Women's Hospital for on-campus appts after the preliminary testing is complete.

You will *be at the hospital about 6 hours* to complete all appointments which will include but not necessarily in this order:

1. Please provide copies of your cancer screening e.g., pap smear, mammogram, and colonoscopy.
 - a. These must be up to date and are processed through your primary care doctor and your insurance.
 - b. This is seen as routine healthcare and not part of the donor workup.
2. ECG
3. Blood pressure measurement – twice
4. Heart rate (pulse) measurement – twice
5. Measured height and weight
6. Chest x-ray
7. Lab visit which will include further blood work and 2nd urinalysis (unless completed prior)
8. CT scan to look at the size/health of your kidneys
9. Visit with the social worker approx. 1-1.5 hours
10. Visit with the independent living donor advocate approx. 20 min
11. Visit with the surgeon to discuss surgical procedure
12. Visit with the nephrologist to discuss medical eligibility as well as risks of being left with one kidney based on your health history, family history and donor evaluation testing.
13. Visit with the psychiatrist, as indicated
14. There may be other tests/evaluations indicated based on your preliminary testing which will be identified once you complete preliminary testing.

Tests you may be asked to complete:

Blood tests: to check compatibility between you and the transplant candidate.

- **Blood Type Compatibility Chart**

Donor's Blood Type	Transplant Candidate's Blood Type
O	O
A or O	A
B or O	B
A, B, AB, or O	AB

NOTE: The Rh factor (+ or -) in blood type is not important in compatibility.

- **Tissue Typing:** Checks the tissue compatibility between you and the transplant candidate.
- **Crossmatching:** Determines how the transplant candidate will react to your organ. A “positive” crossmatch means that your organ is incompatible with the candidate. A “negative” crossmatch means that your organ is compatible with the candidate.
- **Antibody Screen:** When a foreign substance (antigen) enters a person's body, a protein substance (antibody) is created in response to that antigen. (Blood from transfusions and viruses are examples of antigens). Results of this test will show if the transplant candidate has antibodies in his/her body that would react to your antigens.

Upon completion of the medical, surgical, and psychosocial evaluation, results will be reviewed by the Kidney Transplant Program's Multidisciplinary Selection Committee to determine if you are approved (i.e. cleared to donate.) You will receive notification of whether you are a suitable living kidney donor candidate. The Kidney Transplant Program may decide you are not a candidate to donate. In such cases, you could be evaluated by another transplant program that may have different selection criteria. Our kidney transplant program utilizes the following guidelines to determine your qualification as a donor:

1. Donor must be donating voluntarily and be willing to undergo the necessary evaluation process including signing a consent form to begin their evaluation.
2. Absence of high suspicion of donor coercion
3. Absence of high suspicion of illegal financial exchange between donor and recipient
4. Absence of kidney disease or structural or anatomic abnormalities that might lead to donor renal dysfunction post donation.
5. Absence of HIV, active HBV, HCV or RPR+.
6. Age greater than or equal to 18 and capable of making an informed decision.
7. The potential donor must have adequate health insurance.
8. A negative pregnancy test for potentially fertile females.
9. Absence of active substance abuse.
10. Absence of any condition or combination of conditions which the donor's physician or multidisciplinary selection committee concludes that donation will be a high risk to the donor and/or unlikely to be successful (including but not limited to, active malignancy, incompletely treated malignancy, uncontrollable hypertension, history of hypertension with evidence of end organ damage, evidence of acute symptomatic infection, obesity, lung disease, cardiovascular disease, diabetes or propensity to diabetes, bleeding or clotting disorders, etc.).
11. Absence of uncontrolled diagnosable psychiatric conditions requiring treatment before donation, including any evidence of suicidality.

Post Donation Follow-Up Requirements

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The journey of donating does not end after the organ has been donated; regular follow-up from both psychosocial and medical professionals after kidney donation is required. It is a lifelong commitment to maintain your overall health and preserve the function of your remaining kidney.

The recovery hospital is required to report living donor follow-up information at six months, one year, and two years post-donation.

Lifestyle Advice:

- ***Follow-up at BWH Renal Transplant Clinic in 7-10 days, approximately 6 months, 1 year, and 2 years post-operatively for urinalysis, blood pressure, weight, and basic labs***
- Avoid heavy lifting for 12 weeks after surgery
- Exercise at least 4 times a week for 30 minutes (caution should be used when engaging in contact sports)
- Eat a balanced and appropriate caloric diet
- Avoid saturated fats, trans fats, and sodium
- Eat plenty of fruits and vegetables
- Get plenty of rest
- Avoid all non-steroidal (NSAID) medications (e.g., Aspirin, Advil/Motrin/ibuprofen, naproxen/Naprosyn/Aleve, and Celebrex/celecoxib)
- You may use Tylenol/acetaminophen per recommendations on the bottle.
- If you have any questions regarding future medications, please ask your nurse coordinator.

Medical Evaluation Focus:

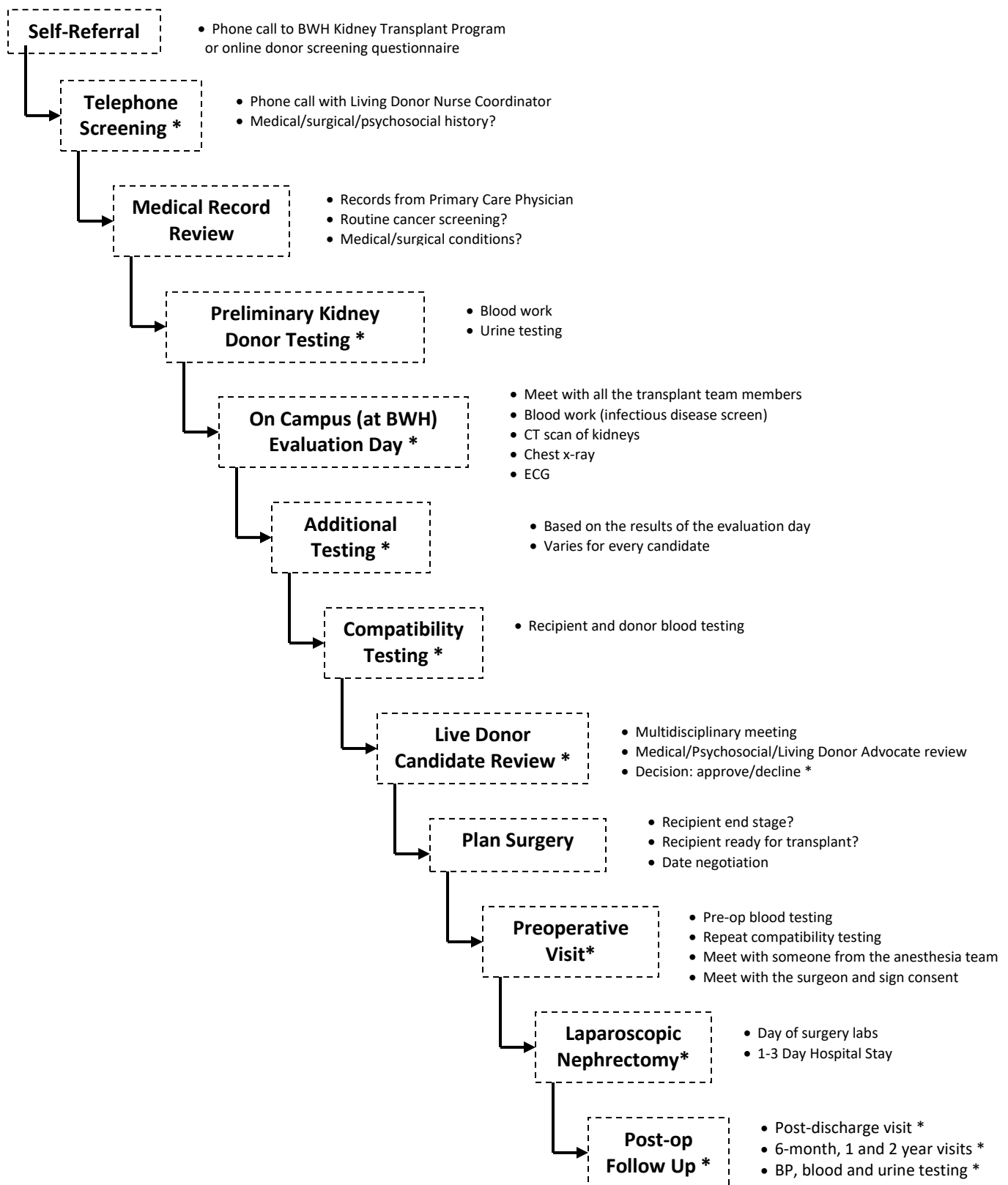
- Yearly blood pressure screening and/or management
- Yearly height, weight, and weight circumference
- Age-appropriate physical exam
- Laboratory yearly:
 - a. urine protein; creatinine ratio
 - b. serum (blood) creatinine

Psychosocial Follow-Up:

Any concerns and/or issues will be brought to the attention of the transplant social worker. Psychosocial appointments are always available for any living donor at any point in the post-transplant process.

This document will be frequently reviewed and subject to change as new medical knowledge becomes available and therapies improve, so please ask for a new one every year.

Summary of Living Kidney Donation Process



*** Required Elements**

NOTES

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