

Is a Transplant Right for Me?

This webinar will start shortly. The slides and the webinar recording will be available at www.dpcedcenter.org

Next webinar: August 27,2020

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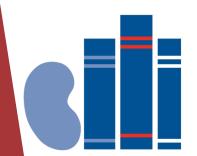
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S. John Swanson, III, M.D., FACS

- Surgical director and chief of the Kidney Transplant Program at Christiana Care in Newark, Delaware
- ► UNOS certified surgical director of the Walter Reed Army Medical Center Kidney/Pancreas Transplant Program 1991-2005
- Chief of the Organ Transplant Service 1994-2005





Mike Guffey

- Cadaveric Transplant Recipient January 2012
- Worked Full Time While on Dialysis and After Transplant
- ► Had Private Insurance as Secondary





Danny Iniguez

- On and off dialysis since 12 years old and diagnosed with kidney failure as a result of a bicycle accident
- Receive transplant from mother, which lasted for seven years until hi body rejected it in 2000
- Went back on dialysis and had to wait over ten years to receive a new transplant







Introduction to Transplant Assessing if transplant is right for you.

S. John Swanson, III, MD, FACS Chief, Kidney Transplant Program

Kidney Transplant Program
Christiana Care Health System
Medical Arts Pavilion 2





Treatment Options

Kidney transplant - preferred for those medically eligible

- ✓ Living donor (<1 year)
- ✓ Deceased donor (5-10 year wait; 60% waitlist mortality in 5years)

Dialysis - a bridge to transplant for those medically eligible

- ✓ Hemodialysis in-center vs home
- ✓ Peritoneal Dialysis

Patient survival is better if you are transplanted than staying on dialysis*.

*Depends on <u>age</u> and <u>other health conditions</u>; and if medically cleared to be transplanted.





Transplant is NOT an option if...

- Severe heart disease without possibility of intervention.
- Other organ failure requiring transplant can be referred to another program.
- Patients with irreversible essential organ failure.
- Current malignancy (cancer).
- Active infection.
- Multiple medical problems making surgery unsafe.





Transplant may or may not be right for you if...

- Age > 75
- Significant blood vessel disease.
- Patients who are unable to care for themselves and are without a support person to help them.
- Morbid obesity
- Patients with active illegal drug use
- Patients with psychosocial contraindications





Transplant may not be right for you if... (part 2)

- Patients with active illegal drug use
- Patients with psychosocial contraindications
- Patients with cancers that have been treated
- Tobacco abuse (smoking or chewing)
- Untreated sleep apnea / CPAP non-compliance





To be eligible for transplant...

On Dialysis (hemodialysis or peritoneal)

OR

Not yet on dialysis, but kidney function* or below 20%

* Measured by the estimated glomerular filtration rate (eGFR)





Referral

- Nephrologist in the late phase of kidney disease
 - Pre-emptive
- Dialysis unit
- Self-referral





Evaluation





Transplant Team

- Transplant Coordinator "quarterback"
- Transplant Nephrologist
- Transplant Social Worker
- Transplant Dietician
- Transplant Pharmacist
- Transplant Financial Coordinator
- Transplant Surgeon





What tests do I need to be listed?

Cardiac testing

- ✓ To decrease risk of adverse events during or after transplant
- ✓ Ensure your safety

Blood work

- ✓ To decrease risk of adverse events during or after transplant (Includes viral testing)
- ✓ Ensure your safety

Radiology

- ✓ Chest X-ray
- ✓ CT Scan of the abdomen and/or ultrasound







What tests do I need to be listed?

Your primary care physician may help you coordinate possible other health maintenance testing (to be current)

- ✓ Mammogram for women over 40.
- ✓ Gyn / PAP exam for women of all ages.
- ✓ Colonoscopy for everyone over 50.
- ✓ Dental clearance to rule out infection and cancers.

Health maintenance needs to be completed within 3 months of transplant evaluation.



Testing must be complete!!

You will <u>NOT</u> be approved for transplant or added to the national waitlist until...

Testing is completed and results are received/reviewed by transplant team!

Wait time is key factor in getting a deceased donor transplant!

- ✓ Average waiting time is 5 10 years in our region.
- ✓ Blood type plays a major role in how long you wait for a deceased kidney.







Question

Does an evaluation guarantee you a place on the waiting list?



If approved for transplant...

You will be notified and registered for the national waitlist.

UNOS: United Network for Organ Sharing

Federal agency that manages the process and information on all potential listed recipients throughout the U.S.

- OPO: Organ Procurement Organization
 - ✓ "Gift of Life" is our local organ procurement organization
 - ✓ Serving Delaware, southern NJ, eastern PA
 - ✓ Notifies transplant centers in this region when a deceased donor organ becomes available





Your Current Nephrologist

- While waiting on the list, you will still be cared for by your current nephrologist.
 - ✓ Dialysis
 - ✓ Hospital admissions
- Immediately after transplant, your care will be managed by the transplant team.
- After 3-6 months, your care will be shared by both the transplant team, your current nephrologist and primary care physician.





Approximately 750,000 people in the United States have end stage renal disease.

- >100,000 people are on the kidney transplant waiting list. ...increasing every day.
- >17,000 kidney transplants are performed each year.
 - √ 33% are from living donors preferred
 - √ 67% are deceased donors

Source: kidney.org (2016)





Listing Status

Listed Status 1 (active) This is your goal!

- Testing is complete
- Ready for transplant AND to be offered a deceased donor kidney.

Listed Status 7 (inactive)

Gaining time, but will not be called for a deceased donor organ offer

Reasons why you may be listed status 7

- ✓ Change in functional status
- ✓ Waiting 1-year post heart stent
- ✓ Something that **TEMPORARILY** makes you NOT a candidate for transplant





Monthly blood samples

Once listed, a tube of your blood will be sent each month to the tissue typing lab to:

- Check for the presence of new antibodies (PRA)
- Be used for testing against any potential donors when available



Jefferson Hospital is our tissue typing lab.





Panel reactive antibodies (PRA)

Recipient's serum is tested against a panel of cells from many people.

Increases due to blood transfusions, prior transplants, abortions or pregnancy.

A higher PRA makes finding a donor more difficult and impacts kidney survival.

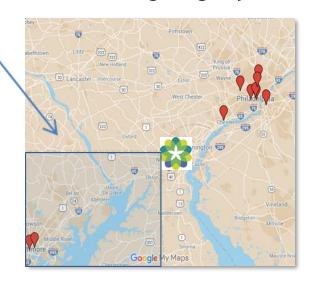


What is multi-listing?

You may list in other regions (OPOs) ie., Maryland's "Living Legacy"

Advantages

- ✓ Increases your chances to match with a deceased organ donor
- ✓ Could decrease your wait time for a deceased donor



Disadvantages

✓ You must travel to the kidney for transplantation
as well as all of your postoperative care

There is no benefit in multi-listing within the same OPO region, since you would receive the same kidney offers.



Types of Donors: A True Gift

Living Donors



Deceased Donors



Source: Getty Images & http://bangordailynews.com/2014/03/13/living/kidney-donor-from-veazie-recipient-from-caribou-form-special-bond/



Living donor transplants

Types of donors

- ✓ Living related
- ✓ Living unrelated





Criteria for living donors

- ✓ Must be between 18 and 65 year old
- ✓ Must be healthy
- ✓ Must be willing and want to give
- ✓ Must have compatible blood types







Advantages for living donation

- You do not have to wait years at risk on a list.
- Shorter time between kidney removal and transplantation
- Kidney spends minimal time "on ice" waiting to be transplanted
- Planned surgery
- Better outcomes







Anyone who wants to be or could be a living donor should start by talking with their primary care physician to ensure age appropriate testing is up-to-date.

- ✓ Annual physical with primary care or family physician.
- ✓ Mammogram for women over 40
- ✓ Gyn exam for women
- ✓ Colonoscopy for anyone over 50
- √ Vaccinations





Do you have a living donor?

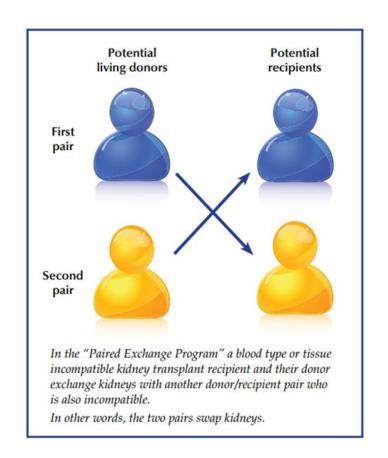
Recipient Blood Type	Donor Blood Type
0	Ο
A	A, O
В	B, O
AB	AB, O, A, B





Paired kidney donation programs

- An alternate way of receiving a kidney from a living donor, when you and your donor are not a match.
- You and your donor are entered into a paired donation program... if you both agree.
- We participate with NKR and UNOS paired donation programs.
 - ✓ National Kidney Registry
 - ✓ United Network of Organ Sharing







Organ are given a value based on the following information:

- Donor Age

- Race/ethnicity

- Hypertension

- Diabetes

- Serum Creatinine

- Cause of death-Stroke

- Height

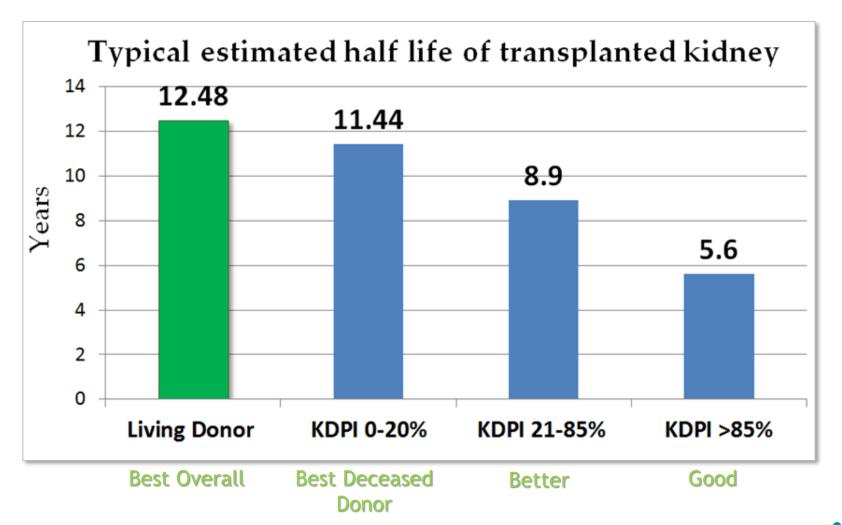
- Weight

- Donation after cardiac death (DCD)
- High risk behaviors (PHS)
- Hepatitis C Status
 Only candidates who already have Hepatitis C can receive these kidneys





Kidney Donor Profile Index (KDPI)







KDPI categories..."Car story"



Allocated to patients those with longest expected post transplant survival

KDPI 0 - 20%



Allocation to pediatrics, then according to wait time

KDPI 21 – 35%



Allocation according to wait time

KDPI 36 - 85%



KDPI > 85%

Allocation to those who will accept kidney offers from middle aged donors with known prior health issues.





KDPI > 85 Kidney



- "Not quite ideal" kidneys
- Separate waitlist for recipients who sign a consent to consider offers
- Kidney survival rate is typically lower than with younger, healthier donors but . . .

If you are over 40, your survival rate is better than what it would be on dialysis!





Donation after cardiac death (DCD)

- Donor fails to meet the criteria for brain death.
- In order to be declared deceased, the donor's heart must stop beating.
- Donor is removed from life support before kidneys are removed.
- 40% chance of delayed graft function, but kidneys will recover.

You may need dialysis for a short time after your transplant





Public Health Services (PHS) increased risk donors

- All PHS donors are tested for HIV and hepatitis BEFORE you are called with the organ offer.
- Organs coming from donors that meet the criteria of the Public Health Services have increased risk for:
 - Sexual behaviors Imprisonment
 - Drug use Greater than 10 blood transfusions
 - Tattoos/body piercings Travel out of the U.S.
- You will be told if kidneys are coming from donor with increased risk.
- You have the right to accept or not accept the offer.

1/3 of deceased donors are considered PHS high risk.





How are organs offered?

- 24/7/365 process managed by OPO and UNOS.
- The OPO ("Gift of Life") notifies UNOS.
- UNOS generates a new list for each kidney offered.
- Transplant team first reviews the donor information.









When a kidney becomes available

- We have 1 hour to reach you by phone!
- Keep your contact information updated with us.

Answer the phone!

- ✓ Ensures us that you are available.
- ✓ We ask questions about your health.
- ✓ We discuss the offer with you.
- ✓ You decide, if you want the kidney or not.







When a kidney becomes available

- You may receive many offers before you are transplanted.
- There are many recipients offered each organ:
 - ✓ Primary means you are first on the list.
 - ✓ Back up means you are not the first person in line.
- You will be at a different place in line for each kidney offer.
- Crossmatch to see if you are compatible with the donor.





No such thing as "Top of the List"

Order of the list changes with each organ offer based on:

- Donor's blood type
- Crossmatch results
- Recipient's time on the list
- Recipient's state of health at the time
- KDPI of the donor

UNOS makes the ultimate decision for who gets the organ!





Crossmatch tests

Crossmatch tests if a recipient and donor are compatible.

- Negative crossmatch is desired.
- A positive crossmatch means you cannot accept a kidney from this donor.
- Antibodies* can develop, so repeat crossmatch testing is sometimes required during evaluation of living donors and prior to all transplants.

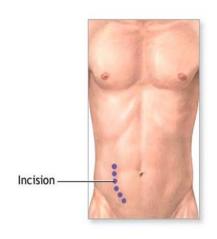


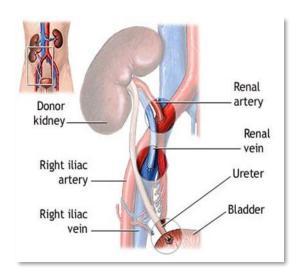


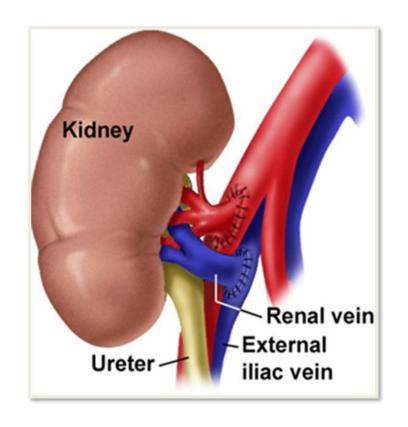
^{*} Antibodies are fighter cells against a specific protein in the donor



Kidney transplant operation











Potential surgical issues/risks

- Bleeding
- Infection
- Fluid collections in wound
- Non-functioning kidney
- Clotting issues
- Urinary leak or blockage

Most complications can be corrected and happen infrequently.





What happens after transplant?

- Hospital length of stay
 - ✓ 3 5 days with living donor kidney
 - √ 4 6 days with deceased donor kidney
- Anti-rejection medications are started immediately
 - \checkmark 2 3 medications for the life of the kidney.
 - ✓ Keeps your body from attacking the new kidney.
 - ✓ Side effects typically include nausea, vomiting & diarrhea.
 - ✓ Increased chance of infections and cancers.
 - ✓ Missed doses will increase the chance of rejection
- Follow-up exams and lab work





Post-transplant follow-up

- Transplant clinic follow-up in Medical Arts Pavilion 2
 - ✓ Short-term
 - ✓ Long- term office visits
- Thanking the donor family
- Continued care from transplant team for the life of the kidney
- It is extremely important to stay in contact with your transplant team...even if you move.





Medications after transplant

- Can be up to 10 different medications and 20-30 pills a day!
 - ✓ Prograf® (tacrolimus)
 - ✓ CellCept® (mycophenolate mofetil)
 - ✓ Nulojix® (belatacept) monthly IV infusion
- Some are preventative to avoid infections (Bacterial, viral, fungal)



- Continue medications for blood pressure, cholesterol, diabetes.
- Anemia: may still need EPO shots





Potential medical problems

- Cancer
 - ✓ Skin: 50% @ 5yrs, 80% @10yrs
 - ✓ Kidney: your old ones
 - ✓ Post transplant lymphoproliferative disorder 1% risk caused by the EBV/Mono virus
- Delayed Graft Function aka "sleepy kidney"
 - ✓ You may need some dialysis for a short time
- Rejection does not always mean you lose your kidney
 - ✓ Biopsy at 3-months and 1-year
 - √ Can be silent! Frequent lab test are needed





You...

- Are the most important member of our team.
- Must be involved in your care.
- Should contact your coordinator with changes in phone numbers, addresses, & dialysis centers.
- Should contact your coordinator with changes in your health.



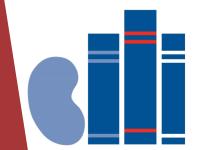
Mike's Transplant Experience and Tips





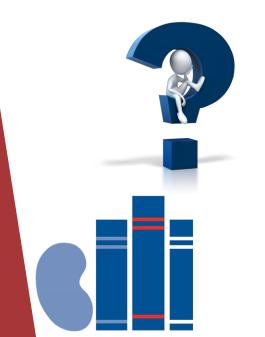
Danny's Transplant Experience and Tips





Questions?

Please use the Chat Box







Thank You for Attending Today!

Please complete the Feedback Form

▶ Join us on August 27th for our next webinar on Dialysis Access – What Every Patient Should Know!

