

Kidney Paired Donation

Marian Charlton, RN,SRN,CCTC



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Objectives:

After participating in this session, the attendee will be able to:

- Discuss the basic fundamentals of Kidney Paired Donation
- Describe the impact on Living Donor transplantation
- Outline the necessary patient education requirements



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Why Kidney Paired Exchange

- Approximately 1/3 of patients who come forward with a potential living donor(s) will be incompatible due to:
 - Blood type incompatibility
 - HLA/Crossmatch incompatibility
- Other patients have a willing, compatible donor with whom they are chronologically incompatible
- Some patients have a willing, compatible donor but are seeking a better genetic match



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Kidney Paired Donor Exchange

- Conceptualized in 1986:
 - Evolved as a means to facilitate kidney transplantation for patients with incompatible blood types or positive cross matches with otherwise acceptable kidney donors
 - Non-directed (altruistic) donors, with no preconceived intended recipient, can expand paired exchange by providing a “starting point” by facilitating incompatible pair, kidney transplants



Kidney Paired Donation Programs

- National Kidney Registry
- UNOS KPD Program
- Alliance for paired Donation
- Biologic TX
- Single Center programs



KPD: National Impact

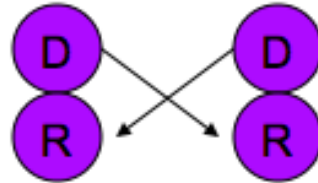
- KPD contributes ~ 15% total annual Living Donor Transplant volume
- Since 2014, gradual increase in overall volume
- In 2019, 1,114 of the 6,867 living donor transplants performed can be attributed to KPD
- In 2020, as with transplant across the board, there was a decrease in KPD transplants



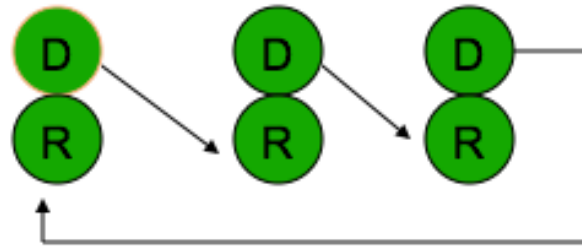
The Evolution of Paired Exchange

Traditional Paired Exchange

Two Pair Exchange



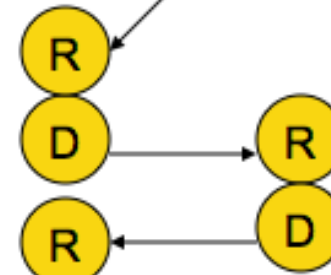
Three Pair Exchange



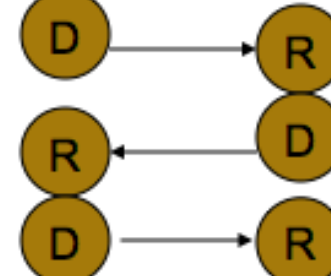
Chains

*Non Directed
Altruistic Donor*

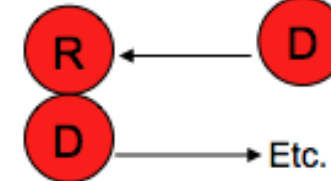
Cluster
#1



Cluster
#2



Cluster
#3



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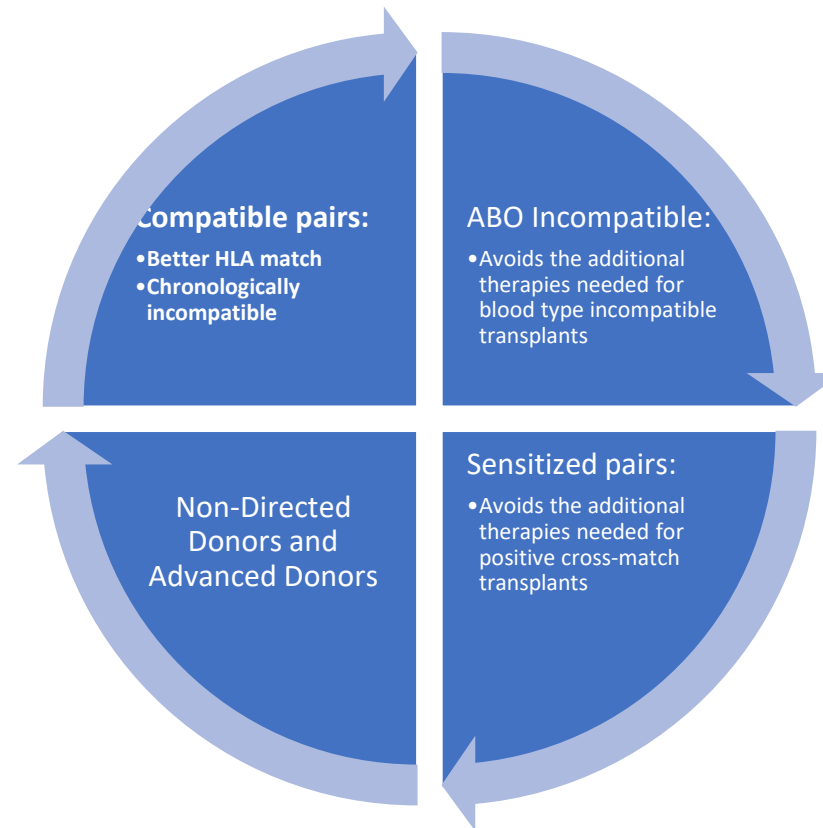
How does it work?



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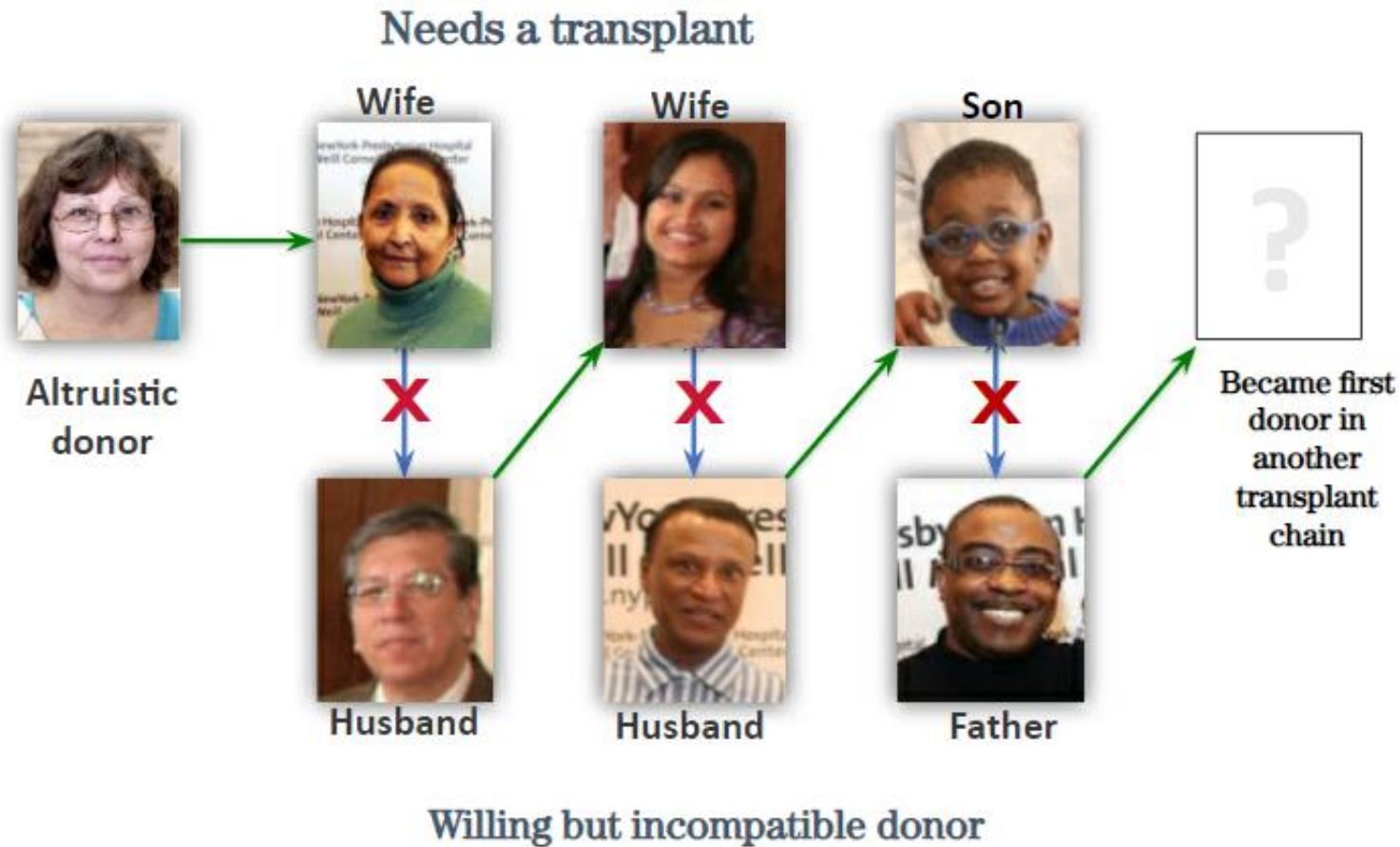
Who Enters KPD?



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Never Ending Altruistic Donor Chain



60 Lives, 30 Kidneys, All Linked



NYT, 2/18/12

Remote Donation

Remote Kidney Donation allows someone who wants to donate a kidney to a friend or family member in a distant city without requiring the donor to travel to the transplant center.

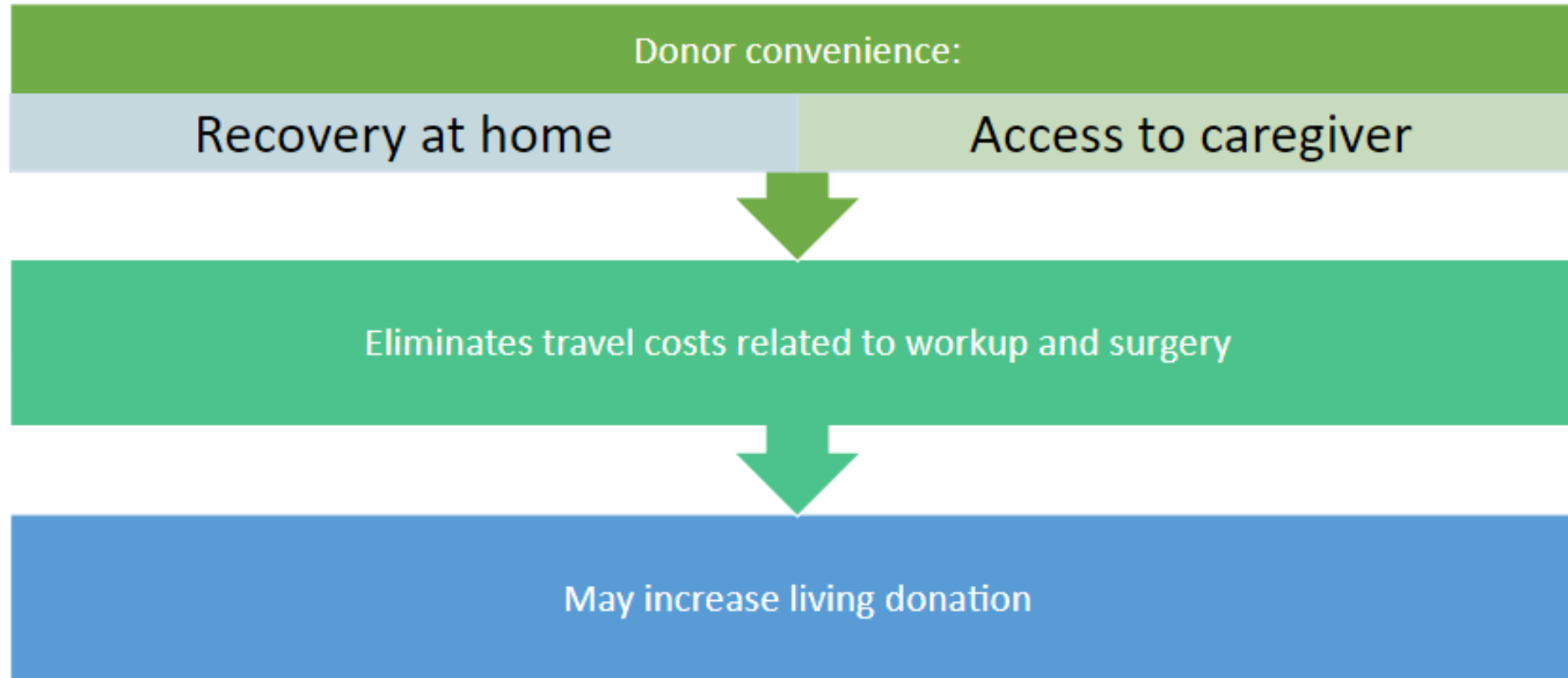
Remote donation utilizes proven logistics systems pioneered in kidney swaps over the past decade to safely transport the kidney from the donor's local hospital to the distant transplant center.



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Advantages



Voucher Donation

Voucher Types

Standard Voucher

- Voucher donor only name a single intended recipient, the intended recipient may need a kidney transplant within the year.

Family Voucher

- Family Voucher donor can name up to 5 family members, none of whom are expected to need kidney within the year.
- Donors who would choose to not donate because they may need to donate to a family member later are now provided that protection.

National Kidney Registry 2021



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ADVANCED DONATION PROGRAM CERTIFICATE

FULL NAME

STREET ADDRESS
CITY, STATE ZIP

THE HOLDER OF THIS CERTIFICATE HAS DONATED A KIDNEY THROUGH THE NATIONAL KIDNEY REGISTRY'S ADVANCED DONATION PROGRAM. FOR MORE INFORMATION ON THIS CERTIFICATE AND THE PRIORITIZATION POLICY, PLEASE VISIT WWW.KIDNEYREGISTRY.ORG AND GO TO 'KIDNEY PATIENTS' AND SELECT 'ADVANCED DONATION.'



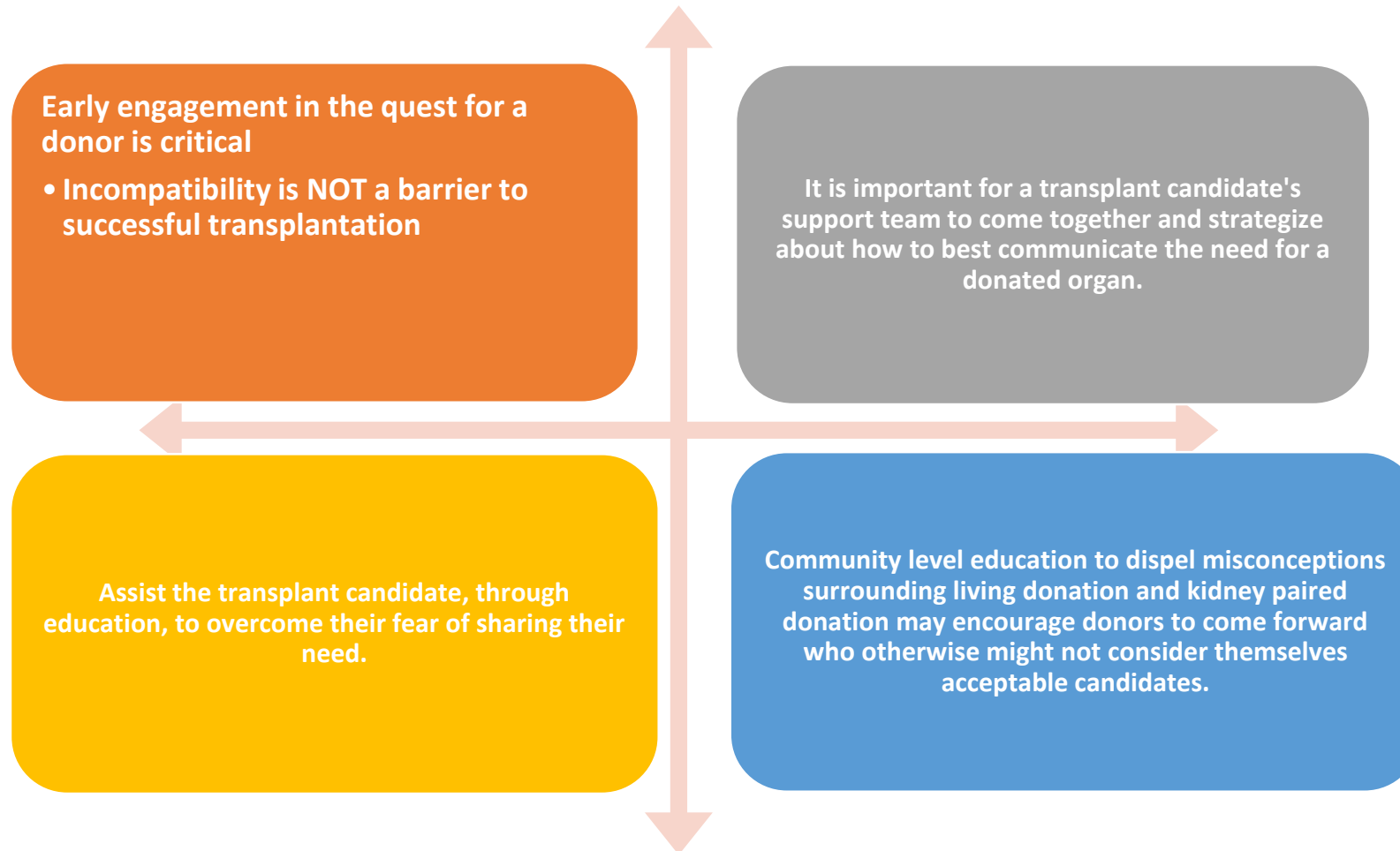
ADVANCED DONATION PROGRAM VOUCHER

FULL NAME

STREET ADDRESS
CITY, STATE ZIP

THE HOLDER OF THIS VOUCHER HAS BEEN NAMED AS A POTENTIAL RECIPIENT OF A LIVING DONOR KIDNEY BY A FORMER NATIONAL KIDNEY REGISTRY ADVANCED DONOR. FOR MORE INFORMATION ON THIS VOUCHER, PLEASE VISIT WWW.KIDNEYREGISTRY.ORG AND GO TO 'KIDNEY PATIENTS' AND SELECT 'ADVANCED DONATION.'

How best to help your transplant candidate:



D'Alessandro T, Veale JL. Innovations in kidney paired donation transplantation. Curr Opin Organ Transplant. 2019 Aug;24(4):429-433. doi: 10.1097/MOT.0000000000000669. PMID: 31192817.

Summary

- KPD provides an opportunity for incompatible pairs to receive a LD transplant
- Very highly sensitized recipient candidates are now realizing transplant success as a direct result of KPD.
- Affords compatible pairs an opportunity to receive a better matched kidney
- Voucher program overcomes the chronological incompatibility

D'Alessandro T, Veale JL. Innovations in kidney paired donation transplantation. Curr Opin Organ Transplant. 2019 Aug;24(4):429-433. doi: 10.1097/MOT.0000000000000669. PMID: 31192817.

Thank You



Give thanks. Give life.



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