

A Single Non-Directed Living Liver and Kidney Donor Facilitates Saving 7 Lives: Sequential and Paired Exchanges for Liver and Kidney Donation

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14th Annual Living Donation Conference

Presented by the American Foundation for Donation and Transplantation

Need versus Available Organs

- Approximately 10,430 liver transplant candidates and 88,660 kidney transplant candidates are waiting for an organ
- Approximately 8,000 liver transplants and 26,000 kidney transplants are performed each year
- Every ten minutes someone is added to the waitlist and approximately 17 people die each day while awaiting a transplant in the U.S.¹
- The gap between those needing an organ transplant and organ availability is becoming wider



¹Health Resources & Services Administration, 2023



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Strategies to Reduce the Gap

- Expand Number of Available Organs
 - Donation after Circulatory Death
 - Hepatitis C positive
 - HIV positive
- Xenotransplantation
- Organ Procurement Organization policy changes
- Organ perfusion
- Increase living donation opportunities
 - Paired Exchange and Sequential donation



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Case Presentation

Non-Directed Donor with Sequential and Paired Exchange



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Non-Directed Donor

- 52-year old Caucasian male, married with two children
- Wanted to donate a kidney or part of his liver but initially uncertain about which organ
- Medically and surgically appropriate for surgery
- No psychiatric history
- No financial concerns
- Donor's son had died at a young age
 - Son's desire was to donate his organs, but the family was unable fulfill this to related to his medical condition
 - Donor wished to honor his son's desire to donate and to prevent another family from losing a loved one
- Wished to donate to a child and wanted to remain anonymous



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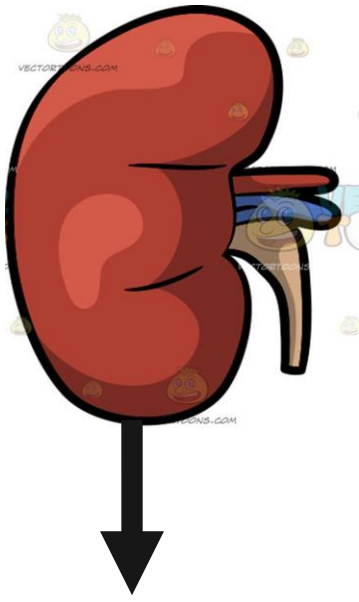
Donation

- Evaluated at another hospital as well as a kidney donor, to increase his chances of being able to donate to a child
- Donated at the other center that started a chain and led to 5 kidney transplants including a child
- Returned to UPMC and wanted to donate his liver in a paired exchange
- UPMC's first liver paired exchange

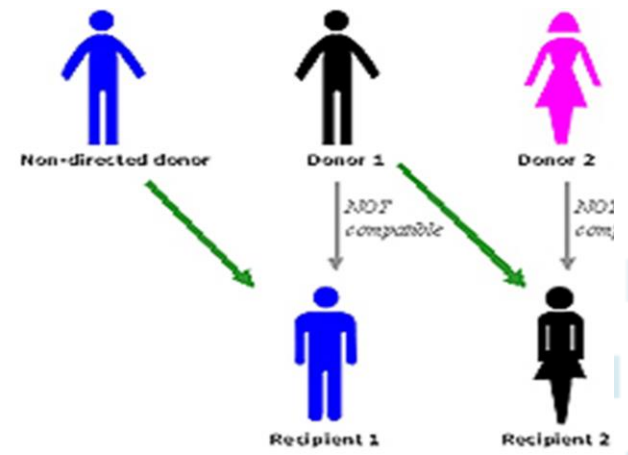
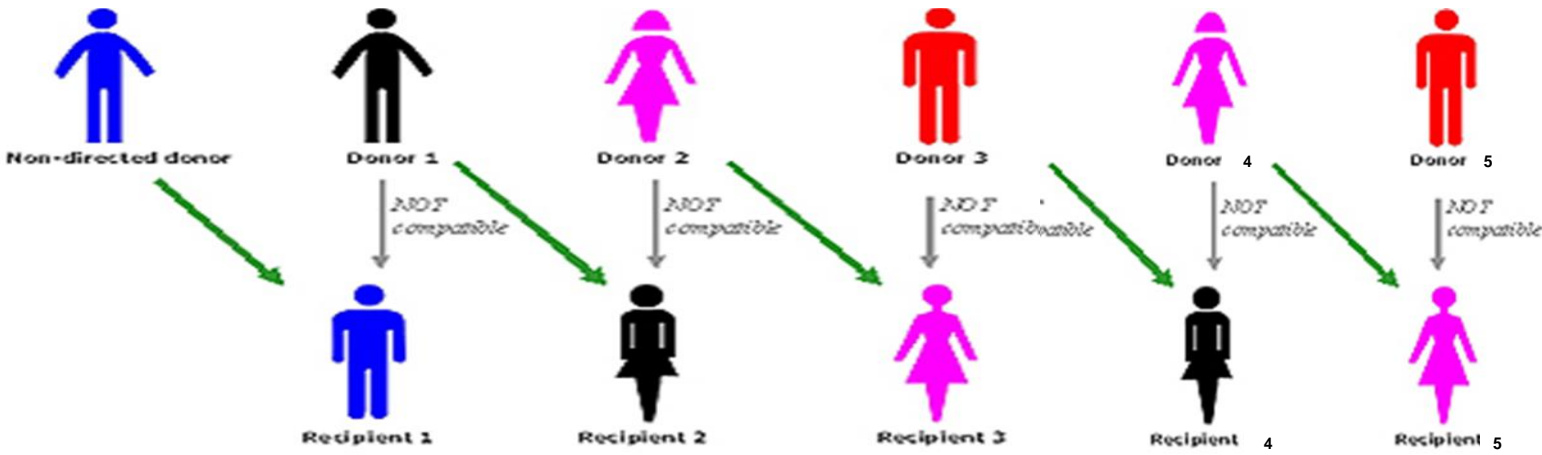
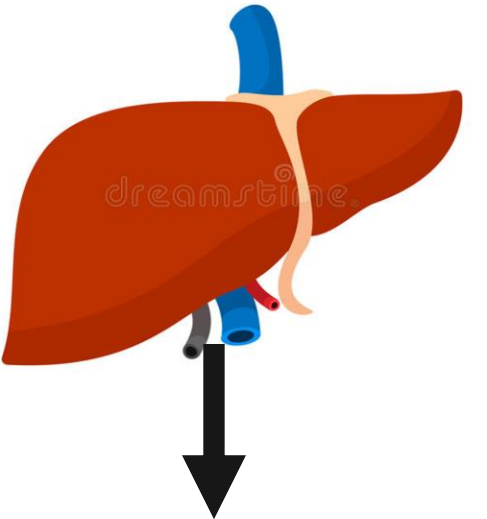


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Non Directed Donor



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Post-Operative Follow Up

- Transient complications that resolved within 2 weeks of liver surgery
- Returned to his healthy lifestyle behaviors (e.g., running)
- After surgery he changed his mind and met all of the kidney and liver recipients
- Continues philanthropic activities
- Quality of life remains above the general population norms
- Expressed that living donation was his most meaningful philanthropic endeavor



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Special thanks to all the living donors who give the gift of life



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Thank you

