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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
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
Case Presentation

Non-Directed Donor with Sequential and Paired Exchange
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
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
Non Directed Donor
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
Co-Investigators

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