OPTN Kidney and Pancreas Transplantation Committees

Summer 2022
Eliminate Use of DSA in Kidney and Pancreas Allocation

- Implemented March 15, 2021
- 250 NM circle replaced DSA and region
- Proximity points assigned
  - Based on distance between listing center and donor hospital
- 1-year post-implementation reports for kidney and pancreas can be found on the OPTN website: https://optn.transplant.hrsa.gov/resources/by-organ/kidney-pancreas/
Deceased Donor Kidney Transplant Rates

![Graph showing transplants per 100 active patient years before and after a policy change.]
Transplant Rate by Age at Listing and Policy Era

![Graph showing transplant rates by age at listing and policy era. The graph compares pre-policy and post-policy periods with statistical significance indicated by p-values. The chart indicates a 63% increase in transplants per 100 active patient years for the 0-17 age group post-policy.]
Transplant Rate by Race/Ethnicity and Policy Era

![Graph showing transplant rates by race/ethnicity and policy era.](image-url)
Transplant Rate by Dialysis Time at Listing and Policy Era

![Graph showing transplant rates by dialysis time at listing and policy era.](image)

- Pre-Policy
- Post-Policy

- Preemptive Listing
- < 3 Years
- 3+ Years

- p < 0.0001
- p < 0.0001
- p < 0.0001

- 51% increase in transplant rate post-policy.
Distance from Donor Hospital for Deceased Donor Kidney Transplants
Discard Rate for Deceased Donor Kidneys

![Bar chart showing discard rate for deceased donor kidneys. The chart compares pre-policy and post-policy discard rates across different KDPI ranges.]

Discard Rate

Donor KDPI

Pre-Policy | Post-Policy
---|---
0-20% | 0-20%
21-34% | 21-34%
35-85% | 35-85%
86-100% | 86-100%
Total | Total
Kidney-Pancreas Transplant Rates by Policy Era
Distance from Donor Hospital for Kidney-Pancreas Transplants

- Pre-Policy
- Post-Policy

Distance from Donor Hospital (NM)

Density

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Pancreas Transplant Rates by Policy Era

![Graph showing transplant rates by policy era](image-url)
Distance from Donor Hospital for Pancreas Transplants

Distance from Donor Hospital (NM) vs. Density

- **Pre-Policy**
- **Post-Policy**
Pancreas Discard Rates by Policy Era

![Bar chart showing discarding rates before and after policy change. Pre-policy era has a discarding rate of approximately 20%, while post-policy era has a rate of about 25%.]
Key Metrics - Kidney

- Equity in access to transplant
  - Transplant rates increased for all candidates on the waiting list
  - Increased transplant rates for:
    - Pediatric candidates
    - Black, Hispanic, and Asian candidates
    - Candidates with CPRA 80-97%
    - Candidates with long dialysis time
  - Changes in transplant rate varied across the country

- Efficient allocation
  - Deceased donor kidneys traveling farther
    - Most outside of DSA but inside 250NM
  - Increased CIT, rate of delayed graft function, and discard rates
  - Six month post-transplant patient and graft survival did not change
Kidney-pancreas and pancreas transplant volumes remained stable.

While more pancreata were allocated outside the donor hospital’s DSA, the majority stayed within 250 NM.

Overall pancreas discard rate increased from 22.7% to 26.5%.
Next Steps

- The Kidney and Pancreas Committees will continue to monitor the policy’s impact.
- Committees will consider impact as part of development of a continuous distribution framework.
Feedback or Questions