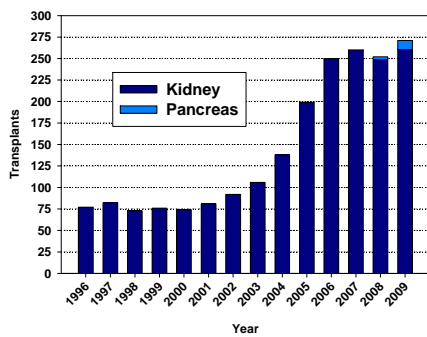


Renal & Pancreatic Transplantation at Columbia University New York-Presbyterian Hospital

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Columbia University/New York-Presbyterian Hospital
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Columbia University/New York-Presbyterian Hospital
Renal Transplants



Important Data

- Approaching 3000th Kidney Tx
- Patients in follow-up ~2500
- Waiting List ~800
- Median Waiting Time 19 months
- 1 yr Graft Survival 95%
- 1 yr Patient Survival 97%
- Live Donor Tx (2008-9)
 - Patient Survival 99.2%
 - Graft Survival 98.8%

Unique Features

- Multidisciplinary program
- Video & web-based patient education
- Effective waiting list management
- Comprehensive incompatible program
 - Live donor ABO incompatible transplants
 - LD Transplants across a (+) crossmatch
 - Desensitization for deceased donor tx
 - Paired kidney exchanges
 - Complex exchanges
 - Exchanges utilizing compatible donors
- Minimally invasive recipient operation
- Pancreas Transplantation
- Center for women of child-bearing age

Video & web-based patient education

Renal Transplantation: A Guide for Patients

<http://www.columbiasurgery.org/pat/kidneypancreastx/guide.html>



Transplant Overview



Immunosuppression & Rejection



Evaluations and Transplant Waiting List



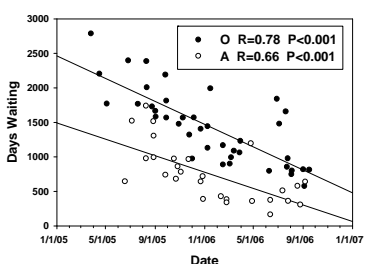
Finance

Coming Soon: Living Kidney Donation, Post-transplant care

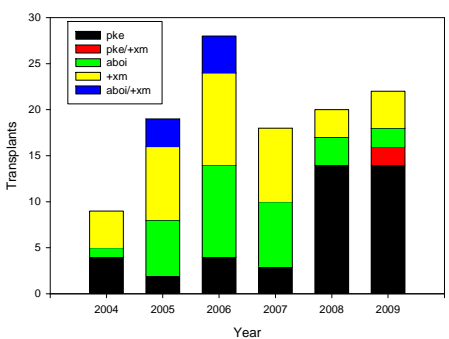
Waiting List Management "Top 40 List"

- Simple method to manage a large waiting list
- Select patients most likely to be transplanted soonest
 - Low PRA (<30%)
 - Most waiting time
- 10 patients per blood type = "Top 40"
- List re-generated every 2-4 weeks
- Dedicated transplant coordinator
- Average 1-2 patients per week for re-evaluations
- Coupled with aggressive use of "sub-optimal organs"

**Waiting Time Until Transplantation
Blood Groups A & O**



**Columbia University/New York-Presbyterian Hospital
Comprehensive Incompatible Renal Transplant Program**



Science Times
 The Kidney Swap: Adventures in Saving Lives
 Two Donors, Two Recipients and Four Busy Operating Rooms



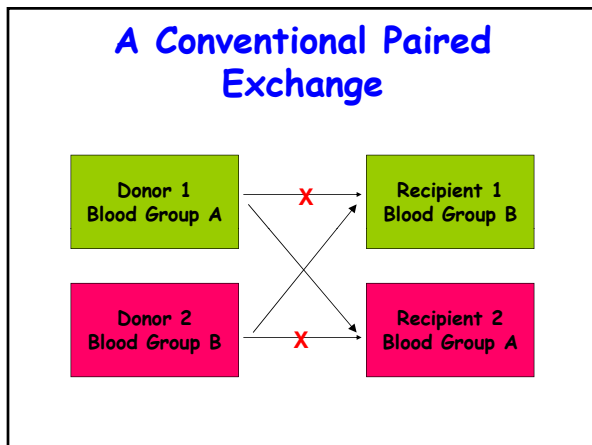
All four patients undergo anesthesia simultaneously so they won't back out.

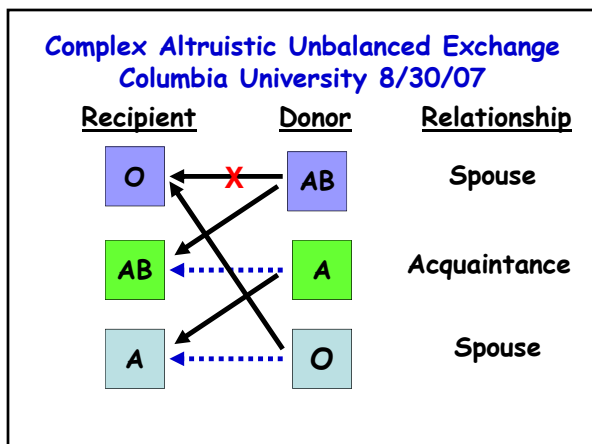
The Kindness of Strangers

Donor 1: [Name] Donor 2: [Name]

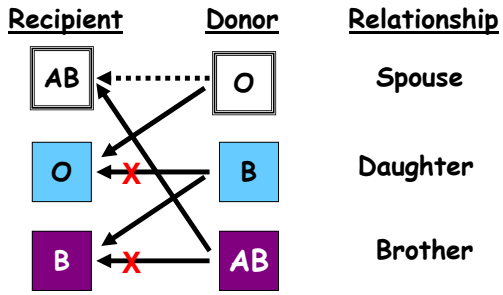
Recipient 1: [Name] Recipient 2: [Name]

By [Author Name]

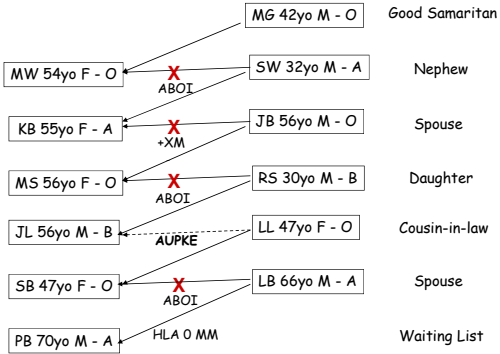




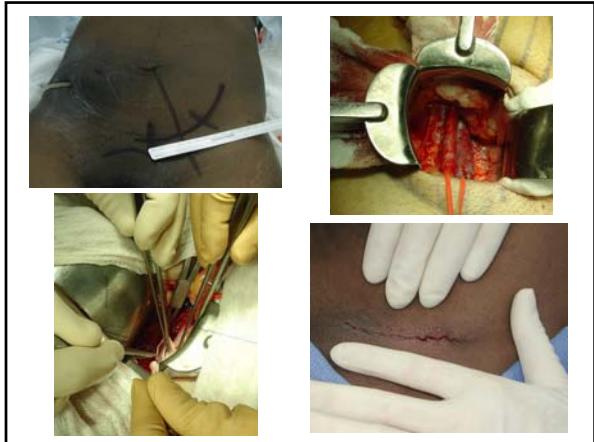
Complex Altruistic Unbalanced Paired Kidney Exchange



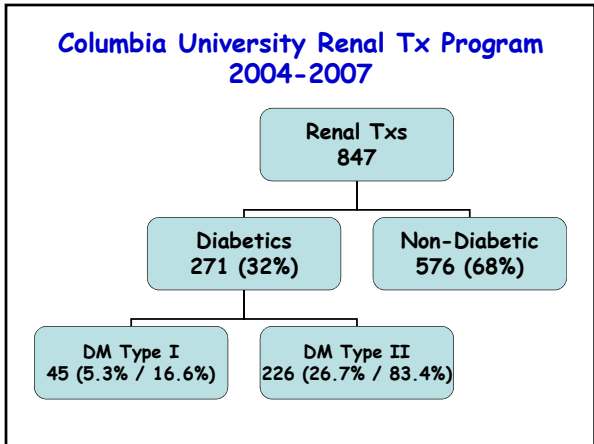
Recipients	Donors	Relationship
	MG 42yo M - O	Good Samaritan
MW 54yo F - O	SW 32yo M - A	Nephew
KB 55yo F - A	JB 56yo M - O	Spouse
MS 56yo F - O	RS 30yo M - B	Daughter
JL 56yo M - B	LL 47yo F - O	Cousin-in-law
SB 47yo F - O	LB 66yo M - A	Spouse
PB 70yo M - A		Waiting List



Minimally Invasive Recipient Operation

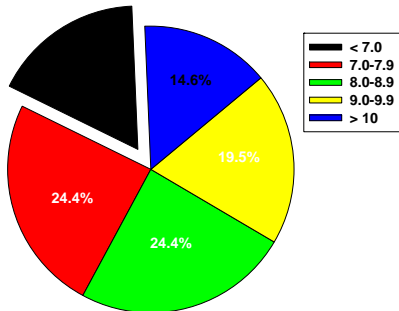


Pancreas Transplantation



Type I Diabetics—HgBA1C

n = 41



Indications for Pancreatic Transplantation

- **Type I Diabetes with renal failure**
 - Pancreas after kidney tx (PAK)
 - Simultaneous kidney/pancreas tx (SPK)
- **Type I Diabetes without renal failure (PTA)**
 - Extremely brittle
 - Hypoglycemic unawareness
 - Progressive secondary complications despite optimal insulin regimen
- **Type II Diabetes**
 - Phenotypic Type I
 - Thin
 - Early onset
 - Persistent C-peptide
 - Decreased insulin production

Summary

- **Great depth**
- **Focus on access to transplantation**
- **"Top 40"- Waiting list management**
 - Dramatic decline in waiting times
- **Comprehensive Incompatible Tx Program**
 - Desensitization (live & deceased donor)
 - ABOI
 - Paired kidney exchange
- **Mini-Incision renal transplantation**
- **Pancreas transplantation**
- **How to best serve our patients & referring physicians?**
