#### Results

#### Demographic Data Of Recipients:

Demographic of 27 recipients of cadaveric kidneys are presented in Table (2)

TABLE (2) Demographic Characteristics of the Study Sample n=27

Characteristics	Range	<u>Mean</u>
Age	(15-60)	38.8
Peak Panel	(10-97)	9.7
Reactive Antibodies		
(P-PRA)		

TABLE (3) Other Demographic Characteristics of The Study (n=27)

Characteristics	Number	Percent (%)
Race	18 Caucasian	66.7%
	9 Black	33.3%
Gender	18 Male	66.7%
	9 Female	33.3%
Living Donor	3	11.1%
Recipients(LDR)		

Cadaveric Donor	24	88.9%
Recipients(CDR)		
-		
Kidney Recipients	22	81.5%
Pancreas Kidney	5	18.5%
Recipients(PKR)		

## Table ( 4 )Causes Of Renal Failure

Etiology	Number	Percent
Insulin Dependent Diabetes Mellitus(IDDM)	10	37%
Other Diseases	17	63%

## Table (5) Transplant Status

<u>Status</u>	<u>Number</u>	Percent(%)
1 <u>st</u> Graft	24	88.9%
2 <u>nd</u> Graft	3	11.1%

Recipients ranged from 15 to 60 years old with a mean age of 38.3 years. The peak panel reactive antibody (P-PRA) level had a range from 10% to 97% with a mean PRA of 9.7 Among the 27 transplants, 18 males (66.7%) and 9 females (33.3%). Also eighteen (66.7%) Caucasian, and nine (33.3%) black patients.

Number of HLA mismatches between recipient and donor ranged from one to three with average of 1.3 Of these patients, recieved an ABO-identical graft.

We reviewed 27 recipients of cadaveric kidneys. Twenty two (81.5%) were kidney alone transplant recipients, while five patients (18.5%) recieved a combined kidney / pancreas transplant. All transplant recipients were from cadaveric donor except three (11.1%) living related donor; of these, only one experienced rejection.

Four patients 14.8% experienced delayed graft function, but only six patients 22.2% experienced rejection in the early postoperative period; of these, only one experienced recurrent rejection episode. Mean time to first rejection episode was 15 days; however, half of the patients who experienced rejection had had the first episode by 7 days postransplantation.

Donors ranged from 10 to 61 years old with a mean age 32.9 years. The cause of death for most of donors was traumatic, and cerebrovascular accidents.

Pathology: Four recipients (14.8%) developed biopsy-proven rejection during the first 3 weeks after transplantation, one recipient (3.7%) after 7 weeks and only one recipient (3.7%) developed immediately hyperacute rejection. Renal dysfunction due to drug toxicity e.g. (Tubular interstitial nephritis ) which occurred in four recipients 14.8%.

Table ( 6 ) Relationship Between Monocytes and Rejection
Outcomes

	Monocyte +	Monocyte-
Rejection	3	2
Norejection	2	20
Total	5	22

Table (7) Relationship of Other Cellular Markers and Rejection Outcomes

	T-cell+	T-cell-	B+	В-
Rejection	2	4	3	3
No rejection	3	18	2	19
Sens=33%, Spec Sens=50%, Spec		0%, -Pred=81%, I		•

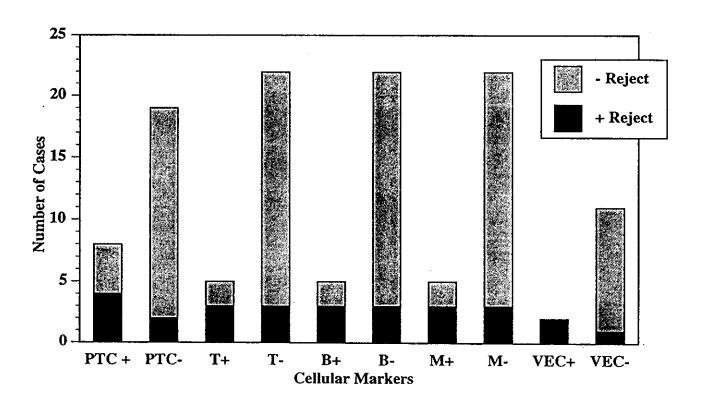


Figure 17. Number of Patients Experiencing Renal Allograft Rejection in the Presence of Specific Cellular Markers

Table (8) Concordance Of Monocytes and Vascular Endothelial Cell Antibodies.

	+VEC *	-VEC	
+Monocyte	2(15%)	-	
-Monocyte	•	11(85%)	

<sup>\*</sup> P < 0.013

<sup>\*</sup> Excluding cases where VEC crossmatch not done.

<sup>\*</sup> Negative monocytes includes cases that were equivocal.

Table (9) Concordance Of Monocyte and /VEC To the Allograft Rejection

	+VEC &Monocyte*	-VEC&Mo
Rejection	2(15%)	1(7.6%)
No Rejection	-	10(76.9%)

Sens=66.6% , Spec=100% , +Pred= 100% , -Pred= 90.9% , Effic=92.3%

Table (10) Concordance Of Peritubular Capillaries (PTC) and Anti-Endothelial Abs

	+Mon/VEC	-Mon/VEC	Total
Positive PTC	3 (37.5%)	5 (62.5%)	8 (29.7%)
Negative PTC	2 (10.5%)	17(89.4%)	19 (70.3%)
Total	5 (18.5%)	22 (81.4%)	27

<sup>\*</sup> P < 0.038

<sup>\*</sup> Excluding cases where VEC crossmatch not performed

Table (11) PTC Leukocytosis and Anti-Endothelial Abs as a Predictor of Rejection

	Positive Rej	Neg Rej	Total
+PTC/Anti- endothelial	4 (50%)	4 (50%)	8 (29.7%)
- PTC/Anti- endothelial	2 (10.5%)	17 (89.4%)	19 (70.3%)

Sensitivity = 50% Specificity = 89.5% + Predictive value = 66.6% - Predictive value = 80.9% Overall Accuracy of the test = 67% P < 0.044

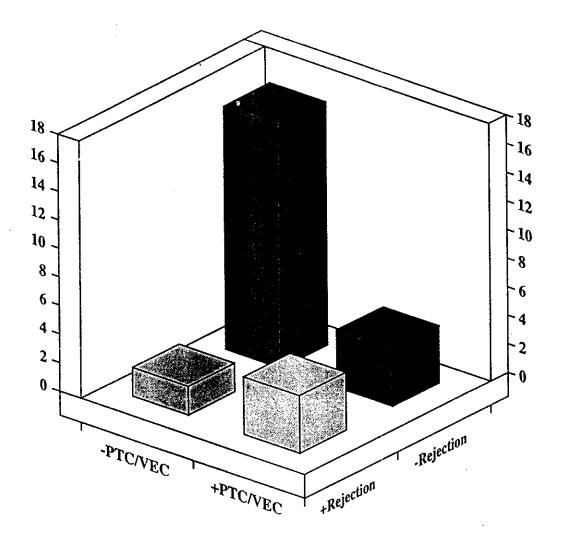


Figure 18. PTC Leukocytosis and Anti-Endothelial Antibodies as a Predictor of Rejection

Table (12) Discordant PTC Leukocytosis and Anti-Endothelial Antibodies as Predictor Of Rejection

	Rejection	No Rejection
+PTC and -Anti-End	3	0
-PTC and +Anti-End	2	0

Table (13) Predictive Ability Of Specific cellular Markers
For Renal Allograft Rejection

	Sens (%)	Spec	+PV (%)	-PV (%)	Accuracy
Mon/VEC	66.6%	100%	100%	90.9%	92.3%
PTC/VEC	50%	89.5%	66.6%	80.9%	67%

Table (14) The Relationship Between PTC Sensitization and Other Markers.

PTC Sens	<u>Tot</u> n	+ <u>VEC</u> n	+T n	<u>+M</u> n	<u>Rej</u> n
+PTC	8	2	1	3	4
-PTC	19	-	4	2	2

The Actual Survival Rate At One Year = 84%

# = <u>Pts With Functioning grafts</u> Total Number Of pts

Because the actual total number of the pts is = 27. There is no data for 2 pts. So finally the actual number is = 25. Four of them are graft lost, one of the four is dead with graft lost.