

Table SI. Markers in patients categorized by the CDC-XM levels.

A, Scr					
Group		CDC>10% (n=16)	CDC≤10% (n=96)	t/Z-value	P-value
Pre-transplant	1 day	1005.16±265.08	904.82±274.86	1.358	0.177
Post-transplant	1 day	1039.60 (878.08-1203.13)	722.05 (490.20 -955.70)	-2.644	0.008
Post-transplant	2 days	832.75 (535.28-1015.93)	420.65 (216.70-751.95)	-2.752	0.006
Post-transplant	3 days	524.25 (313.75-910.35)	232.25 (150.55-546.80)	-2.956	0.003
Post-transplant	7 days	243.55 (142.90-355.08)	155.70 (105.68-274.23)	-2.075	0.038
Post-transplant	1 month	179.51 (135.25-362.85)	159.90 (116.35-225.30)	-1.256	0.209
Post-transplant	3 months	162.50 (122.25-184.25)	138.50 (107.75-163.75)	-1.701	0.089
Post-transplant	6 months	144.43 (144.43-164.75)	144.43 (116.75-158.50)	-1.105	0.269
B, Urea					
Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant	1 day	21.88±6.73	20.73±7.38	0.045	0.965
Post-transplant	1 day	26.03±6.30	23.43±7.17	1.364	0.175
Post-transplant	2 days	29.09±8.54	24.60±9.45	1.783	0.077
Post-transplant	3 days	28.28 (22.15-38.91)	20.21 (14.52-33.28)	-2.058	0.040
Post-transplant	7 days	23.20 (15.69-46.09)	16.94 (12.46-29.11)	-1.971	0.049
Post-transplant	1 month	13.82 (9.96-25.04)	10.66 (7.95-16.23)	-1.322	0.186
Post-transplant	3 months	8.53 (7.41-15.29)	9.26 (7.29-11.97)	-0.561	0.575
Post-transplant	6 months	9.49 (8.05-9.49)	9.49 (6.91-10.80)	-0.515	0.607
C, eGFR					
Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant	1 day	5.00 (4.00-7.00)	6.00 (4.00-7.75)	-0.934	0.350
Post-transplant	1 day	5.00 (4.00-6.75)	8.00 (5.00-12.00)	-2.073	0.038
Post-transplant	2 days	6.00 (5.25-12.25)	14.00 (7.00-34.00)	-2.368	0.018
Post-transplant	3 days	11.50 (6.00-23.00)	29.00 (10.00-51.75)	-2.587	0.010
Post-transplant	7 days	31.50 (17.25-58.00)	47.50 (23.50-76.00)	-1.676	0.094

Post-transplant month	1	40.52±20.97	49.71±27.03	-1.257	0.211
Post-transplant months	3	52.41±18.85	59.34±22.75	-1.294	0.198
Post-transplant months	6	58.80 (48.25-58.80)	58.80 (47.25-67.50)	-0.280	0.779

D, GLU

Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		5.51 (4.78-7.23)	5.51 (4.80-6.23)	-0.096	0.924
Post-transplant day	1	8.10 (6.01-9.54)	6.98 (6.19-8.06)	-1.281	0.200
Post-transplant days	2	7.69 (6.50-8.42)	7.28 (6.47-8.02)	-1.102	0.271
Post-transplant days	3	7.38 (6.77-8.54)	7.41 (6.70-8.18)	-0.112	0.911
Post-transplant days	7	5.20 (4.92-6.11)	5.40 (4.89-6.10)	-0.021	0.983
Post-transplant month	1	5.41 (4.85-6.21)	5.48 (4.95-6.30)	-0.183	0.855
Post-transplant months	3	5.45 (5.20-8.06)	5.34 (4.88-6.05)	-1.513	0.130
Post-transplant months	6	5.78 (5.11-5.78)	5.52 (4.94-5.78)	-0.820	0.412

E, RET%

Group		CDC>10% n=16	CDC≤10% n=96	Z	P-value
Pre-transplant 1 day		1.86 (1.57-2.16)	1.67 (0.92-2.36)	-0.744	0.457
Post-transplant day	1	1.92 (1.29-2.19)	1.82 (1.11-2.56)	-0.150	0.881
Post-transplant days	2	1.93 (1.32-2.12)	7.28 (6.47-8.02)	-0.137	0.891
Post-transplant days	3	1.63 (1.33-1.97)	1.66 (1.00-2.63)	-0.050	0.960
Post-transplant days	7	1.63 (1.33-1.97)	1.66 (1.00-2.63)	-0.050	0.960
Post-transplant month	1	2.43 (1.57-3.87)	2.51 (1.75-3.44)	-0.229	0.819
Post-transplant months	3	2.54 (2.19-3.38)	2.25 (1.79-2.94)	-1.38	0.167
Post-transplant months	6	2.38 (2.27-2.63)	2.27 (1.82-2.40)	-2.552	0.011

F, RET#

Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		0.07±0.02	0.57±0.03	0.836	0.405
Post-transplant day	1	0.06±0.02	0.06±0.03	0.211	0.835
Post-transplant	2	0.06±0.02	0.06±0.03	-0.136	0.893

days					
Post-transplant days	3	0.06±0.02	0.57±0.03	-0.225	0.823
Post-transplant days	7	0.06 (0.40-0.08)	0.05 (0.03-0.08)	-0.474	0.636
Post-transplant month	1	0.09 (0.04--0.13)	0.09 (0.06-0.11)	-0.175	0.861
Post-transplant months	3	0.11 (0.07-0.22)	0.09 (0.07-0.11)	-0.146	0.884
Post-transplant months	6	0.10 (0.10-0.11)	0.10 (0.08-0.11)	-1.590	0.112

G, LFR

Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		84.65 (76.6-93.58)	89.95 (83.88-94.38)	-1.613	0.107
Post-transplant day	1	85.10 (80.88-90.80)	88.95 (79.60-92.50)	-0.994	0.320
Post-transplant days	2	87.95 (79.53-93.28)	89.30 (84.12-93.45)	-0.624	0.533
Post-transplant days	3	87.45 (79.30-93.15)	89.20 (84.40-93.30)	-0.711	0.477
Post-transplant days	7	84.30 (78.00-91.98)	86.15 (80.45-91.90)	-0.902	0.367
Post-transplant month	1	83.80 (74.80-87.82)	87.00 (82.63-91.28)	-1.497	0.134
Post-transplant months	3	81.10 (77.72-85.65)	84.40 (79.40-88.98)	-1.742	0.081
Post-transplant months	6	82.01 (76.43-82.01)	82.55 (80.55-86.83)	-2.113	0.035

H, MFR

Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		12.30±5.15	8.45±4.73	1.584	0.116
Post-transplant day	1	10.78±4.13	10.18±4.57	0.562	0.575
Post-transplant days	2	10.28±5.13	9.08±4.21	1.010	0.315
Post-transplant days	3	9.45±3.79	9.52±4.53	0.062	0.951
Post-transplant days	7	12.56±4.68	11.39±5.99	0.698	0.487
Post-transplant month	1	11.91±5.40	10.88±5.25	0.721	0.473
Post-transplant months	3	14.05 (11.25-15.93)	13.2 (9.90-14.40)	-1.472	0.141
Post-transplant months	6	13.04 (13.04-16.18)	13.04 (10.90-14.40)	-1.343	0.179

I, HFR

Group		CDC>10%	CDC≤10%	Z	P-value
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	n=16	n=96		
Pre-transplant 1 day	2.55 (0.98-3.90)	1.40 (0.43-3.08)	-1.711	0.086
Post-transplant day	1 2.30 (0.78-3.95)	1.65 (0.70-6.88)	-0.052	0.600
Post-transplant days	2 1.50 (0.40-4.00)	1.50 (0.73-3.15)	-0.079	0.937
Post-transplant days	3 1.75 (0.50-3.85)	1.30 (0.63-3.05)	-0.458	0.647
Post-transplant days	7 1.90 (0.63-3.30)	1.80 (0.83-3.92)	-0.133	0.894
Post-transplant month	1 2.79 (1.30-7.68)	1.85 (0.93-3.10)	-1.185	0.236
Post-transplant months	3 4.49 (2.31-7.53)	2.85 (1.60-6.34)	-1.106	0.269
Post-transplant months	6 4.10 (3.65-6.18)	3.00 (1.90-4.10)	-1.737	0.082

J, RET-He

Group	CDC>10% n=16	CDC≤10% n=96	Z	P-value
Pre-transplant 1 day	32.2 (30.38-33.93)	32.3 (29.6-33.25)	-0.682	0.511
Post-transplant day	1 32.05 (31.23-34.4)	31.85 (30.33-33.18)	-1.160	0.246
Post-transplant days	2 31.55 (31.18-32.55)	31.10 (29.12-32.38)	-1.593	0.111
Post-transplant days	3 30.85 (29.45-31.60)	30.75 (29.03-32.38)	-0.299	0.765
Post-transplant days	7 34.20 (32.65-35.28)	33.50 (31.30-34.41)	-1.634	0.102
Post-transplant month	1 31.15 (29.51-33.75)	30.50 (27.93-32.58)	-0.911	0.363
Post-transplant months	3 31.45 (29.78-32.08)	31.20 (28.40-32.70)	-0.087	0.930
Post-transplant months	6 29.85 (29.85-31.80)	29.85 (29.18-32.10)	-0.159	0.874

K, WBC

Group	CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day	6.58 (5.36-6.96)	6.06 (5.11-8.18)	-0.091	0.947
Post-transplant day	1 11.95±4.04	12.54±4.42	-0.508	0.612
Post-transplant days	2 10.89 (10.28-15.41)	12.15 (8.62-15.68)	-0.403	0.687
Post-transplant days	3 10.53±4.06	10.02±4.14	0.450	0.653
Post-transplant days	7 8.95±2.83	10.04±3.96	-1.055	0.294
Post-transplant month	1 6.56 (4.69-9.02)	6.75 (5.14-8.84)	-0.423	0.665
Post-transplant months	3 4.99 (3.56-6.06)	5.70 (4.09-7.42)	-1.613	0.107

months					
Post-transplant months	6	6.96 (5.69-7.43)	6.96 (5.59-7.32)	-0.339	0.735
L, N%					
Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		70.00 (62.9-77.68)	65.75 (61.2-71.28)	-1.455	0.148
Post-transplant day	1	96.30 (94.80-96.95)	96.4 (94.83-97.70)	-0.790	0.429
Post-transplant days	2	96.3 (93.73-97.35)	95.65 (94.10-97.30)	-0.329	0.743
Post-transplant days	3	96.00 (95.35-97.38)	95.05 (92.13-96.85)	-2.208	0.027
Post-transplant days	7	81.56±6.30	80.30±6.50	0.738	0.462
Post-transplant month	1	71.31±13.41	70.66±12.53	0.082	0.935
Post-transplant months	3	66.17±15.10	63.31±14.98	0.587	0.559
Post-transplant months	6	65.02 (65.02-69.83)	65.02 (62.33-71.18)	-0.205	0.838
M, N#					
Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		4.46 (3.26-5.21)	3.94 (3.18-5.28)	-0.815	0.415
Post-transplant day	1	11.44±3.96	12.07±4.31	-0.548	0.585
Post-transplant days	2	10.54 (9.62-14.42)	11.44 (8.04-14.80)	-0.274	0.784
Post-transplant days	3	9.40 (7.15-12.85)	8.64 (6.11-12.37)	-0.665	0.506
Post-transplant days	7	7.28±2.40	8.24±3.52	-1.042	0.300
Post-transplant month	1	4.48 (3.41-6.22)	4.56 (3.23-6.72)	-0.050	0.960
Post-transplant months	3	2.96±1.47	3.90±2.15	-1.675	0.097
Post-transplant months	6	4.73 (3.99-5.15)	4.73 (3.51-5.15)	-0.481	0.630
N, L%					
Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		17.25±7.78	8.45±4.73	-2.191	0.031
Post-transplant day	1	0.50 (0.50-1.18)	0.85 (0.60-1.30)	-1.467	0.142
Post-transplant days	2	0.60 (0.33-0.85)	0.90 (0.60-1.40)	-2.720	0.007
Post-transplant days	3	0.65 (0.53-0.93)	1.20 (0.80-1.88)	-3.064	0.002

Post-transplant days	7	5.20 (2.10-7.63)	7.00 (4.83-10.70)	-2.058	0.040
Post-transplant month	1	16.65±10.58	18.99±11.55	-0.704	0.483
Post-transplant months	3	17.80 (11.03-27.31)	22.49 (17.05-30.08)	-1.422	0.155
Post-transplant months	6	21.86 (18.28-22.34)	21.86 (16.43-26.45)	-0.013	0.990

O, L#

Group		CDC>10% n=16	CDC≤10% n=96	t/Z	P-value
Pre-transplant 1 day		1.15 (0.86-1.41)	1.38 (0.98-1.58)	-1.725	0.086
Post-transplant day	1	0.08 (0.04-0.13)	0.11 (0.07-0.16)	-1.565	0.118
Post-transplant days	2	0.07 (0.03-0.10)	0.10 (0.07-0.16)	-2.325	0.020
Post-transplant days	3	0.07 (0.04-0.10)	0.11 (0.07-0.18)	-2.486	0.013
Post-transplant days	7	0.41 (0.20-0.68)	0.66 (0.43-1.07)	-2.437	0.015
Post-transplant month	1	0.78 (0.49-1.27)	1.13 (0.65-1.75)	-1.285	0.199
Post-transplant months	3	0.92 (0.55-1.51)	1.19 (0.81-1.73)	-1.493	0.136
Post-transplant months	6	1.37 (1.00-1.69)	1.37 (1.02-1.66)	-0.033	0.973

CDC-XM, complement-dependent cytotoxicity crossmatch; Scr, serum creatinine; eGFR, estimated glomerular filtration rate; GLU, blood glucose; Hb, hemoglobin; RET%, percentages of reticulocytes; RET#, absolute reticulocyte number; RET-He, reticulocyte haemoglobin content; LFR, low-fluorescence intensity reticulocytes; MFR, medium-fluorescence intensity reticulocytes; HFR, high-fluorescence intensity reticulocytes; WBC, white blood cell count; N%, the percentage of neutrophils; N#, the absolute number of neutrophils; L%, the percentage of lymphocytes; L#, the absolute number of lymphocytes.

Table SIII. Hb in patients categorized by the CDC-XM levels

Hb	CDC>10% Female n=0	CDC < 10% Female n=28	t/Z	P- value	CDC>10% Male n=16	CDC≤10% Male n=68	t/Z	P- value
Pre-transplant 1 day	-	97 (85.25- 112)	-	-	114.5 (95.75- 131.25)	106 (92.25-126)	-0.991	-0.322
Post- transplant day	1 -	88.17±15.01	-	-	103.63±18.39	102.77±19.19	-0.160	0.874
Post- transplant days	2 -	88.60±25.35	-	-	100.69±18.47	100.42±19.88	-0.048	0.962
Post- transplant days	3 -	86.67±12.80	-	-	99.06±17.14	101.17±20.30	0.385	0.701
Post- transplant days	7 -	83 (75- 92.75)	-	-	96 (83.25-111.50)	106 (91.25- 122.75)	-1.088	0.277
Post- transplant month	1 -	90.25±15.82	-	-	94.65±14.99	105.02±22.27	1.766	0.081
Post- transplant months	3 -	106.17±21.3 2	-	-	110.75±20.56	120.47±20.12	1.733	0.087
Post- transplant months	6 -	126 (100- 127)	-	-	127 (115-127)	135 (123-144.75)	-2.807	0.005

Hb, hemoglobin; CDC-XM, complement-dependent cytotoxicity crossmatch

Table SIII. Markers in patients categorized by HLA matching.

A, Scr					
Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant	1 day	826.61±279.70	939.28±270.82	-1.677	0.096
Post-transplant	1 day	534.60 (282.98-605.70)	865.35 (555.18-1090.50)	-3.548	0.000
Post-transplant	2 days	210.90 (141.58-284.23)	525.65 (273.28-903.25)	-4.524	0.000
Post-transplant	3 days	138.25 (106.35-176.25)	317.70 (175.48-711.43)	-4.596	0.000
Post-transplant	7 days	111.90 (83.83-156.85)	194.75 (126.60-348.70)	-3.943	0.000
Post-transplant	1 month	139.50 (95.75-157.28)	144.00 (117.25-170.75)	-2.040	0.041
Post-transplant	3 months	133.50 (95.75-157.28)	144.00 (117.25-170.75)	-1.197	0.231
Post-transplant	6 months	137.00 (104.75-144.43)	144.43 (123.25-161.50)	-1.800	0.072
B, Urea					
Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant	1 day	21.40±8.72	20.57±6.95	0.459	0.647
Post-transplant	1 day	21.02±6.29	24.41±7.13	-1.964	0.052
Post-transplant	2 days	15.08 (12.55-22.74)	26.67 (19.80-33.70)	-4.072	0.000
Post-transplant	3 days	12.98 (11.05-19.05)	24.20 (17.21-36.73)	-4.148	0.000
Post-transplant	7 days	13.94 (10.80-15.80)	20.74 (13.30-35.58)	-3.236	0.001
Post-transplant	1 month	9.98 (8.20-12.12)	11.16 (7.96-18.66)	-0.767	0.443
Post-transplant	3 months	9.19 (7.51-11.10)	9.21 (7.25-12.80)	-0.406	0.684
Post-transplant	6 months	9.49 (7.29-10.74)	9.49 (7.14-10.27)	-0.585	0.559
C, eGFR					
Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant	1 day	6.00 (5.00-9.00)	5.50 (4.00-7.00)	-1.788	0.074
Post-transplant	1 day	11.50 (8.00-20.25)	6.00 (5.00-11.00)	-3.479	0.001
Post-transplant	2 days	36.00 (24.25-46.75)	10.00 (5.25-24.75)	-4.453	0.000
Post-transplant	3 days	56.00 (41.50-71.50)	18.00 (7.00-41.00)	-4.454	0.000
Post-transplant	7 days	73.00 (46.50-92.50)	35.50 (17.00-66.00)	-3.690	0.000

Post-transplant month	1	57.30±23.48	46.46±26.96	1.665	0.099
Post-transplant months	3	60.5 (48.25-74.00)	52.50 (43.00-71.75)	-0.832	0.405
Post-transplant months	6	58.80 (48.50-70.50)	58.80 (47.25-62.75)	-0.944	0.345

D, GLU

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	Z	P-value
Pre-transplant 1 day		5.03 (4.20-5.69)	5.68 (5.04-6.34)	-3.115	0.002
Post-transplant day	1	6.36 (5.62-7.06)	7.2 (6.42-8.85)	-3.027	0.002
Post-transplant days	2	6.99 (6.10-7.30)	7.49 (6.54-8.20)	-2.310	0.021
Post-transplant days	3	7.22 (6.26-8.05)	7.39 (6.75-8.24)	-1.105	0.269
Post-transplant days	7	4.97 (4.79-5.47)	5.44 (4.91-6.25)	-2.344	0.019
Post-transplant month	1	5.30 (4.76-5.66)	5.55 (4.99-6.52)	-2.070	0.038
Post-transplant months	3	5.06 (4.77-5.51)	5.43 (4.91-6.63)	-2.177	0.030
Post-transplant months	6	5.25 (4.88-5.78)	5.66 (5.04-5.78)	-1.193	0.233

E, RET%

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	Z	P-value
Pre-transplant 1 day		1.53 (0.99-2.16)	1.73 (1.00-2.31)	-0.627	0.531
Post-transplant day	1	1.54 (1.00-2.61)	1.91 (1.23-2.38)	-0.384	0.701
Post-transplant days	2	1.70 (0.83-2.42)	1.89 (1.24-2.54)	-0.729	0.466
Post-transplant days	3	1.43 (0.95-2.49)	1.66 (1.13-2.42)	-0.589	0.556
Post-transplant days	7	1.86 (1.24-2.60)	1.53 (0.96-2.40)	-1.216	0.224
Post-transplant month	1	1.96 (1.66-2.68)	2.61 (1.86-3.56)	-1.892	0.059
Post-transplant months	3	2.14 (1.56-3.07)	2.28 (1.91-2.95)	-1.124	0.261
Post-transplant months	6	2.26 (1.59-2.53)	2.27 (1.94-2.51)	-0.967	0.333

F, RET#

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant 1 day		0.05±0.02	0.06±0.03	-1.280	0.203
Post-transplant day	1	0.05±0.02	0.06±0.02	-0.492	0.624
Post-transplant	2	0.05±0.02	0.06±0.03	-1.146	0.254

days					
Post-transplant days	3	0.05±0.02	0.05±0.02	-0.372	0.710
Post-transplant days	7	0.05 (0.04-0.08)	0.05 (0.03-0.07)	-1.174	0.240
Post-transplant month	1	0.06 (0.05-0.09)	0.08 (0.05-0.11)	-1.413	0.158
Post-transplant months	3	0.09 (0.06-0.10)	0.09 (0.07-0.11)	-0.399	0.690
Post-transplant months	6	0.10 (0.06-0.11)	0.10 (0.08-0.11)	-0.772	0.440

G, LFR

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	Z	P-value
Pre-transplant 1 day		92.65 (84.00-96.60)	89.40 (82.3-93.60)	-1.645	0.100
Post-transplant day	1	90.75 (79.40-96.60)	87.50 (80.27-91.57)	-1.451	0.147
Post-transplant days	2	89.20 (81.10-94.72)	89.35 (83.70-93.20)	-0.015	0.988
Post-transplant days	3	90.46 (85.85-94.20)	88.33 (83.20-93.30)	-1.223	0.221
Post-transplant days	7	84.50 (79.85-90.22)	86.15 (80.45-92.40)	-0.855	0.393
Post-transplant month	1	87.05 (83.87-90.75)	86.28 (79.01-91.72)	-0.311	0.755
Post-transplant months	3	84.30 (82.32-88.98)	84.00 (78.30-87.40)	-1.193	0.233
Post-transplant months	6	82.01 (79.32-87.42)	82.01 (80.20-86.17)	-0.096	0.924

H, MFR

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant 1 day		7.90±5.18	9.75±4.70	-1.569	0.120
Post-transplant day	1	8.96±5.84	10.54±4.13	-1.436	0.261
Post-transplant days	2	9.15±4.58	9.42±4.22	-0.253	0.800
Post-transplant days	3	8.24±4.62	9.78±4.34	-1.419	0.159
Post-transplant days	7	12.16±6.03	11.43±5.79	0.508	0.613
Post-transplant month	1	11.48±6.06	10.92±5.10	0.426	0.671
Post-transplant months	3	12.65 (8.75-14.07)	13.20 (10.60-15.02)	-1.333	0.182
Post-transplant months	6	13.03 (10.82-15.40)	13.03 (11.20-14.40)	-0.264	0.792

I, HFR

Group		HLA 0-2 MM	HLA 3-6 MM	Z	P-value
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	n=20	n=92		
Pre-transplant 1 day	1.10 (0.10-1.87)	1.5- (0.50-3.82)	-1.764	0.078
Post-transplant day	1 0.75 (0.20-6.35)	1.90 (0.80-5.90)	-1.547	0.122
Post-transplant days	2 1.15 (0.35-6.00)	1.60 (0.72-2.87)	-0.570	0.569
Post-transplant days	3 1.20 (0.45-2.04)	1.40 (0.70-3.67)	-1.315	0.188
Post-transplant days	7 2.10 (0.92-4.82)	1.80 (0.62-3.40)	-0.616	0.538
Post-transplant month	1 1.90 (1.00-1.90)	2.00 (0.92-5.85)	-0.547	0.584
Post-transplant months	3 2.40 (1.32-4.75)	3.05 (1.82-6.72)	-1.311	0.190
Post-transplant months	6 2.60 (1.72-6.27)	3.65 (2.00-4.85)	-0.294	0.768

J, RET-He

Group	HLA 0-2 MM n=20	HLA 3-6 MM n=92	Z	P-value
Pre-transplant 1 day	32.50 (29.22-33.55)	32.30 (30.05-33.25)	-0.319	0.750
Post-transplant day	1 32.40 (30.07-33.57)	31.90 (30.42-33.17)	-0.570	0.569
Post-transplant days	2 31.29 (28.23-32.92)	31.10 (29.74-32.40)	-0.015	0.988
Post-transplant days	3 30.79 (28.82-32.66)	30.75 (29.37-32.20)	-0.004	0.997
Post-transplant days	7 33.40 (30.85-34.50)	33.80 (31.40-34.77)	-0.665	0.506
Post-transplant month	1 28.85 (27.72-31.85)	30.65 (28.12-33.10)	-1.440	0.150
Post-transplant months	3 31.30 (27.62-34.00)	31.20 (28.97-32.55)	-0.095	0.924
Post-transplant months	6 29.85 (27.70-31.77)	29.92 (29.72-32.10)	-1.078	0.281

K, WBC

Group	HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant 1 day	6.04 (5.49-9.41)	6.15 (4.82-7.73)	-0.836	0.403
Post-transplant day	1 13.74±5.01	12.17±4.17	1.473	0.144
Post-transplant days	2 12.93 (8.84-16.71)	11.64 (8.89-15.57)	-0.904	0.366
Post-transplant days	3 10.68±3.95	9.97±4.15	0.699	0.486
Post-transplant days	7 10.07±2.85	9.84±4.01	0.245	0.807
Post-transplant month	1 7.41 (5.82-9.08)	6.56 (4.96-8.60)	-1.102	0.271
Post-transplant	3 5.71 (3.94-8.99)	5.58 (4.03-6.82)	-0.980	0.327

months					
Post-transplant months	6	6.96 (5.74-8.05)	6.96 (5.58-7.20)	-0.734	0.463

L, N%

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant	1 day	65.20 (57.97-74.05)	66.05 (61.65-72.67)	-0.509	0.611
Post-transplant	1 day	96.85 (94.35-97.52)	96.40 (94.92-97.70)	-0.175	0.861
Post-transplant	2 days	94.95 (93.72-96.75)	95.95 (94.32-97.37)	-1.231	0.218
Post-transplant	3 days	94.95 (92.37-97.30)	95.25 (92.25-96.85)	-0.163	0.870
Post-transplant	7 days	77.37±7.48	81.15±6.05	-2.426	0.017
Post-transplant	1 month	69.08±13.3	71.11±12.47	-0.653	0.515
Post-transplant	3 months	62.67±13.28	63.94±15.36	-0.342	0.733
Post-transplant	6 months	65.01 (60.77-67.07)	65.01 (63.25-71.87)	-1.372	0.170

M, N#

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant	1 day	3.97 (3.27-6.31)	4.00 (3.17-5.14)	-0.676	0.499
Post-transplant	1 day	13.17±4.87	11.71±4.08	1.393	0.166
Post-transplant	2 days	12.43 (8.12-15.44)	10.81 (8.20-14.66)	-0.839	0.401
Post-transplant	3 days	9.95 (6.64-12.96)	8.64 (6.21-12.23)	-0.764	0.445
Post-transplant	7 days	7.92±2.40	8.13±3.58	-0.251	0.802
Post-transplant	1 month	4.97 (4.01-7.03)	4.35 (3.21-6.46)	-0.877	0.380
Post-transplant	3 months	4.27±2.58	3.65±1.96	1.220	0.225
Post-transplant	6 months	4.72 (3.37-5.63)	4.72 (3.70-5.12)	-0.271	0.786

N, L%

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant	1 day	23.10±10.07	22.01±7.57	0.544	0.588
Post-transplant	1 day	0.95 (0.50-1.30)	0.80 (0.50-1.30)	-0.297	0.766
Post-transplant	2 days	0.80 (0.42-1.25)	0.90 (0.60-1.37)	-0.700	0.484
Post-transplant	3 days	1.10 (0.65-1.77)	1.10 (0.70-1.77)	-0.601	0.548

Post-transplant days	7	8.00 (4.95-15.00)	6.30 (4.37-9.37)	-1.918	0.055
Post-transplant month	1	22.01±7.57	17.80±10.70	1.703	0.091
Post-transplant months	3	25.30 (16.22-34.37)	22.12 (14.70-29.25)	-1.064	0.288
Post-transplant months	6	21.86 (20.32-29.95)	21.86 (16.37-24.07)	-1.372	0.170

O, L#

Group		HLA 0-2 MM n=20	HLA 3-6 MM n=92	t/Z	P-value
Pre-transplant 1 day		1.50 (1.14-1.92)	1.30 (0.93-1.61)	-1.368	0.171
Post-transplant day	1	0.11 (0.07-0.19)	0.10 (0.06-0.14)	-0.784	0.433
Post-transplant days	2	0.09 (0.06-0.15)	0.10 (0.07-0.15)	-0.472	0.637
Post-transplant days	3	0.09 (0.06-0.17)	0.10 (0.06-0.17)	-0.301	0.764
Post-transplant days	7	0.88 (0.46-1.34)	0.58 (0.36-0.84)	-2.173	0.030
Post-transplant month	1	1.24 (0.98-2.19)	1.09 (0.61-1.58)	-2.040	0.041
Post-transplant months	3	1.56 (0.99-2.25)	1.11 (0.74-1.67)	-1.953	0.051
Post-transplant months	6	1.57 (1.25-1.98)	1.36 (0.96-1.50)	-2.504	0.012

HLA, human leukocyte antigen; Scr, serum creatinine; eGFR, estimated glomerular filtration rate; GLU, blood glucose; RET%, percentages of reticulocytes; RET#, absolute reticulocyte number; RET-He, reticulocyte haemoglobin content; LFR, low-fluorescence intensity reticulocytes; MFR, medium-fluorescence intensity reticulocytes; HFR, high-fluorescence intensity reticulocytes; WBC, white blood cell count; N%, the percentage of neutrophils; N#, the absolute number of neutrophils; L%, the percentage of lymphocytes; L#, the absolute number of lymphocytes.

Table SIV. Statistical description of Hb in patients categorized by the HLA matching

Hb	HLA 0-2 MM Female n=8	HLA 3-6 MM Female n=20	t/Z	P- value	HLA 0-2 MM Male n=72	HLA 3-6 MM Male n=12	t/Z	P- value
Pre-transplant 1 day	88.25±20.26	101.30±19.65 8	1.574	0.128	109.79±22.23	108.08±25.50	0.241	0.810
Post-transplant 1 day	1 85 (74.50-92)	87.5 (75.50-104.75)	-0.433	0.665	99.50 (87-118)	99 (86-114)	-0.096	0.924
Post-transplant days	2 81.75±14.99	91.35±28.33	0.902	0.375	100.29±18.03	101.58±27.82	-0.211	0.833
Post-transplant days	3 86.50±8.38	86.75±14.38	0.046	0.964	100.01±18.08	105.33±27.92	-0.867	0.389
Post-transplant days	7 85 (78-98.25)	81.5 (74.25-91.50)	-0.942	0.346	105.50 (88-120.75)	95.50 (89-130)	-0.109	0.913
Post-transplant month	1 96.75±7.68	87.66±17.58	-1.398	0.174	101.54±20.41	112.08±25.74	-1.594	0.115
Post-transplant months	3 102.75±15.02	107.55±23.58	0.531	0.600	119.78±19.94	111.64±22.90	1.282	0.203
Post-transplant months	6 109.5 (93.25-124.75)	127 (120.75-127)	-1.758	0.079	127 (117.50-139.75)	129 (127-144)	-0.641	0.521

Hb, hemoglobin; HLA, human leukocyte antigen.

Table SV. Markers in patients categorized by CDC-XM level and HLA matching.

A, Scr											
Group	Group 1 n=16		Group 2a n=20		Group 2b n=76		F/K	P	P-value		
									1vs2a	1vs2b	2avs2b
Pre-transplant 1 day	972.61±294.82		529.3±270.97		799.65±330.15		1.974	0.144	-	-	-
Post-transplant 1 day	1039.6	(878.07-1203.1)	534.6 (282.9-605.7)		749.3	(5551.35-1036.3)	16.609	0.000	0.000	0.135	0.006
Post-transplant 2 days	832.75	(535.2-1015.9)	210.9 (141.57-284.2)		463.7	(247.67-861.12)	24.178	0.000	0.000	0.162	0.000
Post-transplant 3 days	524.25	(313.75-910.35)	138.25	(106.35-176.25)	272.6 (161.1-608.15)		25.619	0.000	0.000	0.102	0.000
Post-transplant 7 days	243.55	(142.9-355.07)	111.9 (83.92-156.85)		184.15	(119.55-348.7)	17.365	0.000	0.001	0.532	0.000
Post-transplant 1 month	179.50	(135.25-362.85)	139.5 (96.5-184.97)		171.50	(121.12-243.75)	4.941	0.085	-	-	-
Post-transplant 3 months	162.50	(122.25-184.25)	133.50	(95.75-157.27)	140.20	(117.25-165.84)	3.682	0.159	-	-	-
Post-transplant 6 months	144.42	(144.42-164.75)	137 (104.75-144.42)		144.42	(122.25-161.50)	3.844	0.146	-	-	-
B, Urea											
Group	Group 1 n=16		Group 2a n=20		Group 2b n=76		F/K	P	P-value		
									1vs2a	1vs2b	2avs2b
Pre-transplant 1 day	20.79±6.72		21.39±8.72		20.52±7.04		0.113	0.893	-	-	-
Post-transplant 1 day	26.01±6.30		21.01±6.29		24.06±7.28		2.451	0.091	-	-	-
Post-transplant 2 days	27.88 (20.83-36.25)		15.07 (11.05-19.05)		26.46 (19.07-33.52)		17.654	0.000	0.001	0.901	0.000
Post-transplant 3 days	28.27 (22.15-38.91)		12.98 (11.05-19.05)		23.55 (16.06-36.3)		18.875	0.000	0.000	0.589	0.000
Post-transplant 7 days	23.20 (15.69-46.09)		13.93 (10.80-15.80)		19.06 (12.68-33.47)		12.378	0.002	0.003	0.503	0.011
Post-transplant 1 month	13.81 (9.96-25.03)		9.97 (8.19-12.12)		10.80 (7.65-18.22)		2.024	0.364	-	-	-
Post-transplant 3 months	8.52 (7.40-15.28)		9.19 (7.51-11.09)		9.26 (7.11-12.02)		0.408	0.815	-	-	-
Post-transplant 6 months	9.48 (8.05-9.48)		9.48 (7.28-10.74)		9.48 (6.67-11.17)		0.511	0.775	-	-	-
C, eGFR											
Group	Group 1 n=16		Group 2a n=20		Group 2b n=76		F/K	P	P-value		
									1vs2a	1vs2b	2avs2b
Pre-transplant 1 day	5.00 (4.00-7.00)		6.00 (5.00-9.00)		6.00 (4.00-7.00)		3.563	0.168	-	-	-
Post-transplant 1 day	5.00 (4.00-6.75)		11.50 (8.00-20.25)		7.00 (5.00-11.00)		14.167	0.001	0.001	0.452	0.005
Post-transplant 2 days	6.00 (5.25-12.25)		36.00 (24.25-46.75)		11.50 (5.25-27.00)		22.231	0.000	0.000	0.364	0.000
Post-transplant 3 days	11.50 (6.00-23.00)		56.00 (41.50-71.50)		24.00 (7.00-46.75)		22.979	0.000	0.000	0.229	0.000

Post-transplant 7 days	31.50 (17.25-58.00)	73.00 (46.50-92.50)	35.50 (17.00-70.00)	14.597	0.001	0.002	0.964	0.002
Post-transplant 1 month	40.51±20.96	57.30±23.48	47.70±28.01	1.876	0.158	-	-	-
Post-transplant 3 months	52.40±18.85	60.29±20.45	59.08±23.43	0.682	0.508	-	-	-
Post-transplant 6 months	58.90 (48.25-58.80)	58.80 (48.50-70.50)	58.80 (46.25-65.25)	0.902	0.637	-	-	-

CDC-XM, complement-dependent cytotoxicity crossmatch; HLA, human leukocyte antigen; Scr, serum creatinine; eGFR, estimated glomerular filtration rate.

Table SVI. Markers in patients categorized in patients categorized by HLA-A locus mismatch.

A, Scr											
Group	HLA-A 0 MM n=12		HLA-A 1 MM n=72		HLA-A 2 MM n=28		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	861.70±329.11		900.13±278.39		992.69±232.36		1.451	0.239	-	-	-
Post-transplant 1 day	554.80	(301.22-752.42)	722.05	(463.57-946.95)	979	(765.75-1167.40)	17.379	0.000	0.417	0.001	0.001
Post-transplant 2 days	194.15	(144.10-386.80)	362.90	(219.55-649.30)	869.9	(679.15-1033.72)	32.843	0.000	0.127	0.000	0.000
Post-transplant 3 days	144.25	(110.57-266.32)	218.75	(153.70-392.70)	721.30	(436.42-909.65)	32.721	0.000	0.210	0.000	0.000
Post-transplant 7 days	107.20	(79.02-177.77)	141.90	(111.42-237.50)	310.60	(204.15-659.42)	22.374	0.000	0.181	0.000	0.000
Post-transplant 1 month	147.00	(106.25-290.80)	158.90	(116.45-213.17)	184.00	(141.27-314.42)	2.785	0.248	-	-	-
Post-transplant 3 months	141.00	(99.25-164.00)	138.50	(114.05-162.87)	157.00	(107.57-191.00)	2.068	0.356	-	-	-
Post-transplant 6 months	137.00	(104.75-144.42)	144.42	(115.25-154.92)	146.71	(144.42-188.50)	8.016	0.018	1.000	0.061	0.036
B, Urea											
Group	HLA-A 0 MM n=12		HLA-A 1 MM n=72		HLA-A 2 MM n=28		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	22.44±7.66		19.85±7.67		22.19±5.68		1.445	0.240	-	-	-
Post-transplant 1 day	22.40±6.17		22.71±6.80		27.19±7.28		4.558	0.013	1.000	0.138	0.013
Post-transplant 2 days	15.07 (12.55-22.40)		21.50 (16.84-28.91)		33.66 (30.13-36.84)		31.139	0.000	0.229	0.000	0.000
Post-transplant 3 days	12.55 (11.05-22.10)		19.35 (14.91-26.55)		36.72 (31.41-41.53)		37.075	0.000	0.247	0.000	0.000
Post-transplant 7 days	11.95 (8.64-17.54)		14.83 (12.33-22.81)		33.16 (25.32-48.73)		30.545	0.000	0.193	0.000	0.000
Post-transplant 1 month	10.21 (8.69-15.98)		9.59 (7.42-13.67)		15.73 (10.43-20.98)		8.902	0.012	1.000	0.552	0.009
Post-transplant 3 months	9.19 (7.36-12.40)		8.49 (7.24-11.33)		11.55 (7.62-16.78)		5.221	0.073	-	-	-
Post-transplant 6 months	9.48 (6.18-11.21)		9.48 (6.67-10.15)		9.48 (9.00-12.86)		5.926	0.052	-	-	-
C, eGFR											
Group	HLA-A 0 MM n=12		HLA-A 1 MM n=72		HLA-A 2 MM n=28		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	6.50 (4.25-9.00)		6.00 (5.00-7.00)		5.00 (4.00-6.00)		7.323	0.026	1.000	0.111	0.038
Post-transplant 1 day	11.00 (7.25-17.75)		8.00 (5.00-13.00)		5.00 (4.00-6.00)		24.492	0.000	0.512	0.000	0.000
Post-transplant 2 days	38.50 (15.75-45.75)		19.00 (9.25-33.75)		5.50 (4.25-7.00)		36.378	0.000	0.165	0.000	0.000
Post-transplant 3 days	52.00 (26.50-63.50)		33.50 (16.00-51.00)		7.00 (6.00-13.75)		34.745	0.000	0.261	0.000	0.000

Post-transplant 7 days	80.00 (43.50-90.25)	56.50 (30.25-74.00)	21.00 (7.25-35.00)	24.214	0.000	0.262	0.000	0.000
Post-transplant 1 month	49.50±23.58	51.32±26.42	40.39±27.51	1.733	0.182	-	-	-
Post-transplant 3 months	58.50 (44.25-68.00)	56.00 (48.00-74.25)	48.00 (34.25-69.50)	3.181	0.204	-	-	-
Post-transplant 6 months	58.80 (46.25-70.50)	58.80 (50.50-66.00)	53.90 (40.25-58.80)	6.364	0.042	1.000	0.331	0.040

HLA, human leukocyte antigen; Scr, serum creatinine; eGFR, estimated glomerular filtration rate.

Table SVII. Markers in patients in patients categorized by HLA-B locus mismatch

A, Scr											
Group	HLA-B 0 MM n=7		HLA-B 1 MM n=53		HLA-B 2 MM n=52		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	942.44±280.05		818.13±260.21		1018.98±254.94		7.928	0.001	0.705	1.000	0.000
Post-transplant 1 day	599.30 986.60)	(398.10- 558.90	(391.70- 762.95)	966 (749.05- 1174.80)	32.081	0.000	1.000	0.107	0.000		
Post-transplant 2 days	240.30 728.10)	(163.60- 255.70	(204.70- 462.05)	749.9 (502.87- 1078.97)	36.014	0.000	1.000	0.025	0.000		
Post-transplant 3 days	141.00 551.00)	(128.50- 180.80	(137.80- 278.20)	541.70 (306.05- 866.57)	32.390	0.000	1.000	0.023	0.000		
Post-transplant 7 days	123.60 204.60)	(83.00- 129.90	(104.85- 198.05)	236.85 (145.62- 517.92)	20.120	0.000	1.000	0.052	0.000		
Post-transplant 1 month	182.80 189.00)	(104.00- 148.00	(117.90- 203.50)	178.00 (130.25- 337.50)	3.074	0.215	-	-	-		
Post-transplant 3 months	127.00 157.70)	(87.10- 141.00	(114.70- 163.50)	147.50 (112.42- 178.75)	1.175	0.556	-	-	-		
Post-transplant 6 months	144.42 159.00)	(92.00- 140.00	(116.00- 155.00)	144.42 (130.75- 168.75)	2.233	0.327	-	-	-		
B, Urea											
Group	HLA-B 0 MM n=7		HLA-B 1 MM n=53		HLA-B 2 MM n=52		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	26.50±10.09		18.91±7.44		21.77±6.09		4.704	0.011	0.025	0.294	0.118
Post-transplant 1 day	24.56±5.91		21.10±6.22		26.44±7.13		8.513	0.000	0.597	1.000	0.000
Post-transplant 2 days	21.07 (14.97-33.73)		19.23 (15.07-25.32)		31.30 (23.85-36.40)		33.893	0.000	1.000	0.108	0.000
Post-transplant 3 days	18.87 (11.50-28.93)		18.00 (12.98-23.20)		32.77 (22.63-40.77)		31.485	0.000	1.000	0.059	0.000
Post-transplant 7 days	14.61 (13.71-14.81)		13.90 (11.50-18.91)		29.82 (17.38-49.41)		26.659	0.000	1.000	0.043	0.000
Post-transplant 1 month	11.66 (8.77-24.63)		9.80 (7.53-12.97)		14.09 (8.62-21.90)		6.862	0.032	0.663	1.000	0.033
Post-transplant 3 months	7.99 (7.60-10.25)		9.30 (7.51-11.38)		9.31 (7.11-13.62)		0.164	0.921	-	-	-
Post-transplant 6 months	6.99 (5.32-9.48)		9.48 (7.00-10.26)		9.48 (7.98-11.83)		3.964	0.138	-	-	-
C, eGFR											
Group	HLA-B 0 MM n=7		HLA-B 1 MM n=53		HLA-B 2 MM n=52		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	6.00 (4.00-6.00)		6.00 (5.00-9.00)		5.00 (4.00-6.00)		21.291	0.000	0.553	1.000	0.000
Post-transplant 1 day	10.00 (5.00-12.00)		11.00 (7.00-16.50)		5.00 (4.00-6.75)		36.522	0.000	1.000	0.124	0.000
Post-transplant 2 days	31.00 (7.00-39.00)		27.00 (13.50-38.00)		6.00 (5.00-11.00)		39.001	0.000	1.000	0.037	0.000
Post-transplant 3 days	49.00 (10.00-60.00)		41.00 (25.00-59.00)		10.00 (6.00-23.00)		32.912	0.000	1.000	0.045	0.000

Post-transplant 7 days	64.00 (35.00-93.00)	61.00 (35.50-82.00)	26.00 (10.50-50.00)	21.203	0.000	1.000	0.088	0.000
Post-transplant 1 month	48.71±23.48	53.60±25.36	43.04±27.60	2.110	0.126	-	-	-
Post-transplant 3 months	62.00 (48.00-81.00)	58.00 (48.00-70.50)	52.00 (40.49-76.40)	1.322	0.516	-	-	-
Post-transplant 6 months	58.80 (47.00-75.00)	58.80 (49.00-69.00)	58.80 (42.50-61.00)	1.280	0.527	-	-	-

HLA, human leukocyte antigen; Scr, serum creatinine; eGFR, estimated glomerular filtration rate.

Table SVIII. Markers in patients categorized by HLA-DR locus mismatch

A, Scr											
Group	HLA-DR 0 MM n=11		HLA-DR 1 MM n=65		HLA-DR 2 MM n=36		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	874.52±283.92		916.97±262.16		936.72±299.09		0.218	0.805	-	-	-
Post-transplant 1 day	606.60	(483.50-986.60)	734.80	(470.80-962.80)	891.4	(573.10-1175.70)	3.730	0.155	-	-	-
Post-transplant 2 days	417.10	(219.10-728.10)	355.00	(213.45-655.95)	738.85	(372.47-946.17)	6.702	0.035	1.000	0.405	0.034
Post-transplant 3 days	303.30	(128.50-438.80)	216.30	(147.70-443.75)	458.95	(221.82-835.15)	9.343	0.009	1.000	0.245	0.008
Post-transplant 7 days	143.50	(96.70-204.60)	141.90	(106.05-269.05)	215.20	(133.65-399.70)	6.272	0.043	1.000	0.196	0.068
Post-transplant 1 month	152.00	(115.00-262.00)	168.00	(119.00-211.55)	173.50	(117.25-312.40)	0.509	0.775	-	-	-
Post-transplant 3 months	151.00	(112.00-166.00)	141.00	(119.35-164.69)	147.50	(94.25-179.00)	0.030	0.985	-	-	-
Post-transplant 6 months	149.00	(119.00-169.00)	140.00	(116.00-155.00)	144.42	(126.50-161.75)	1.714	0.424	-	-	-
B, Urea											
Group	HLA-DR 0 MM n=11		HLA-DR 1 MM n=65		HLA-DR 2 MM n=36		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	24.49±8.48		19.71±7.07		21.37±6.96		2.308	0.104	-	-	-
Post-transplant 1 day	25.46±5.73		22.84±7.05		25.01±7.38		1.435	0.243	-	-	-
Post-transplant 2 days	25.17±7.80		23.41±9.06		28.54±9.81		3.600	0.031	0.558	0.290	0.008
Post-transplant 3 days	22.00 (12.21-30.82)		19.24 (14.05-30.10)		29.95 (20.73-40.32)		11.955	0.003	1.000	0.236	0.002
Post-transplant 7 days	14.61 (12.58-26.34)		14.81 (11.67-25.05)		26.03 (15.35-41.55)		9.189	0.010	1.000	0.246	0.009
Post-transplant 1 month	10.90 (8.88-15.04)		10.18 (7.51-14.49)		14.64 (7.69-20.90)		3.214	0.200	-	-	-
Post-transplant 3 months	8.87 (7.98-11.87)		9.22 (7.25-11.83)		8.88 (7.19-13.62)		0.247	0.884	-	-	-
Post-transplant 6 months	9.48 (8.17-12.78)		9.48 (6.54-10.20)		9.48 (8.16-10.76)		2.125	0.346	-	-	-
C, eGFR											
Group	HLA-DR 0 MM n=11		HLA-DR 1 MM n=65		HLA-DR 2 MM n=36		F/K	P	P-value		
									0vs1	0vs2	1vs2
Pre-transplant 1 day	6.00 (4.00-9.00)		6.00 (4.50-7.00)		5.00 (4.00-6.75)		3.215	0.200	-	-	-
Post-transplant 1 day	8.00 (5.00-13.00)		8.00 (5.00-12.00)		6.00 (5.00-17.50)		5.982	0.050	-	-	-
Post-transplant 2 days	13.00 (8.50-34.50)		19.00 (8.50-34.50)		6.00 (5.0--17.50)		7.727	0.021	1.000	0.394	0.019
Post-transplant 3 days	19.00 (11.00-60.00)		34.00 (13.50-51.50)		11.50 (6.00-28.00)		9.838	0.007	1.000	0.228	0.006

Post-transplant 7 days	57.00 (32.00-88.00)	56.00 (25.50-77.00)	35.00 (16.25-57.25)	6.507	0.039	1.000	0.241	0.050
Post-transplant 1 month	47.45±27.90	50.19±24.54	45.43±30.08	0.375	0.688	-	-	-
Post-transplant 3 months	57.25±16.63	48.58±20.01	58.25±27.64	0.301	0.860	-	-	-
Post-transplant 6 months	53.00 (47.00-59.00)	58.80 (48.50-69.00)	58.80 (46.25-64.75)	1.788	0.409	-	-	-

HLA, human leukocyte antigen; Scr, serum creatinine; eGFR, estimated glomerular filtration rate.

Table SIX. Markers in patients categorized by ABO compatibility.

A, Scr				
Group	ABOi n=6	ABOc n=106	t/Z	P-value
Pre-transplant 1 day	832.16±200.49	924.08±278.09	-0.796	0.428
Post-transplant 1 day	562.80 (369.45-683.55)	750.00 (516.85-1071.75)	-1.693	0.091
Post-transplant 2 days	255.40 (201.25-444.42)	463.75 (229.40-855.75)	-1.344	0.179
Post-transplant 3 days	196.10 (147.37-391.20)	291.80 (154.97-605.05)	-0.840	0.401
Post-transplant 7 days	127.30 (119.80-260.20)	168.65 (109.87-318.87)	-0.465	0.642
Post-transplant 1 month	173.00 (121.85-339.01)	168.50 (117.95-227.10)	-0.362	0.717
Post-transplant 3 months	149.50 (128.50-285.72)	141.00 (109.25-166.50)	-1.273	0.203
Post-transplant 6 months	149.21 (144.42-155.40)	144.42 (116.00-160.25)	-1.190	0.234
B, Urea				
Group	ABOi n=6	ABOc n=106	t/Z	P-value
Pre-transplant 1 day	22.52±5.02	20.61±7.37	0.624	0.534
Post-transplant 1 day	22.99±3.47	23.84±7.24	-0.286	0.776
Post-transplant 2 days	20.47 (18.18-25.02)	24.97 (17.70-33.22)	-0.930	0.352
Post-transplant 3 days	19.10 (15.08-30.23)	22.72 (15.11-33.95)	-0.446	0.656
Post-transplant 7 days	14.01 (10.52-33.71)	18.13 (12.89-31.21)	-0.640	0.522
Post-transplant 1 month	9.72 (5.86-17.94)	10.97 (8.07-17.18)	-0.607	0.544
Post-transplant 3 months	8.36 (6.39-14.26)	9.20 (7.38-12.01)	-0.394	0.693
Post-transplant 6 months	8.51 (6.96-9.48)	9.48 (7.09-10.59)	-0.982	0.326
C, eGFR				
Group	ABOi n=6	ABOc n=106	t/Z	P-value
Pre-transplant 1 day	7.00 (5.75-7.50)	6.00 (4.00-7.00)	-1.452	0.147
Post-transplant 1 day	11.00 (9.00-15.50)	7.00 (5.00-12.00)	-1.754	0.079
Post-transplant 2 days	28.00 (16.50-38.25)	12.00 (6.00-31.00)	-1.378	0.168
Post-transplant 3 days	37.50 (21.00-52.25)	23.00 (8.75-49.50)	-0.789	0.430
Post-transplant 7 days	54.00 (30.75-69.00)	43.50 (21.00-72.75)	-0.388	0.698
Post-transplant 1 month	41.94±26.78	48.75±26.67	-0.608	0.544

Post-transplant months	3	49.00 (14.33-62.75)	54.50 (45.56-72.75)	-1.383	0.167
Post-transplant months	6	57.90 (46.00-58.80)	58.80 (47.75-66.50)	-0.975	0.329

Scr, serum creatinine; eGFR, estimated glomerular filtration rate. CDC-XM, complement-dependent cytotoxicity crossmatch; Scr, serum creatinine; eGFR, estimated glomerular filtration rate.

Table SX. Statistical description of Proteinuria (qualitative) in patients categorized by the CDC-XM levels

Time	Group	Proteinuria (qualitative)					Z	P-value
		-	-+	1+	2+	3+		
Post-transplant days	CDC≤10%	0.00	0.00	0.38	0.31	0.31	-0.215	0.830
	CDC>10%	0.11	0.17	0.30	0.29	0.13		
Post-transplant month	CDC≤10%	0.59	0.16	0.17	0.05	0.03	-1.896	0.058
	CDC>10%	0.25	0.19	0.50	0.06	0.00		
Post-Transplant months	CDC≤10%	0.79	0.11	0.04	0.05	0.01	-1.637	0.102
	CDC>10%	0.58	0.25	0.09	0.08	0.00		
Post-Transplant months	CDC≤10%	0.79	0.08	0.10	0.00	0.00	-1.637	0.102
	CDC>10%	0.63	0.06	0.19	0.12	0.00		
Post-Transplant months	CDC≤10%	0.82	0.06	0.11	0.01	0.00	-0.209	0.835
	CDC>10%	0.80	0.10	0.10	0.01	0.00		

CDC-XM, complement-dependent cytotoxicity crossmatch.

Table SXI. Statistical description of Proteinuria (qualitative) in patients categorized by the HLA matching

Time	Group		Proteinuria (qualitative)					Z	P-value	
			-	-+	1+	2+	3+			
Post-transplant days	7	HLA MM	0-2	0.08	0.12	0.33	0.29	0.18	-0.475	0.635
		HLA MM	3-6	0.20	0.25	0.25	0.30	0.00		
Post-transplant month	1	HLA MM	0-2	0.46	0.18	0.28	0.05	0.03	-1.546	0.122
		HLA MM	3-6	0.65	0.10	0.20	0.05	0.00		
Post-Transplant months	2	HLA MM	0-2	0.74	0.14	0.06	0.05	0.01	-2.072	0.038
		HLA MM	3-6	0.95	0.00	0.00	0.05	0.00		
Post-Transplant months	3	HLA MM	0-2	0.75	0.08	0.13	0.03	0.01	-0.761	0.447
		HLA MM	3-6	0.85	0.10	0.00	0.05	0.00		
Post-Transplant months	6	HLA MM	0-2	0.79	0.06	0.14	0.01	0.00	-1.579	0.114
		HLA MM	3-6	0.95	0.05	0.00	0.00	0.00		

HLA, human leukocyte antigen.

Table SXII. Markers in patients categorized by donor category.

A, Scr					
Group		DCD n=58	LD n=54	t/Z	P-value
Pre-transplant	1 day	1017.27±241.20	827.80±274.07	3.872	0.000
Post-transplant	1 day	976.60 (774.65-1178.85)	556.10 (399.37-745.25)	-6.376	0.000
Post-transplant	2 days	810.15 (525.87-1063.92)	242.85 (193.55-381.52)	-7.057	0.000
Post-transplant	3 days	697.10 (317.95-866.90)	163.95 (137.90-237.95)	-6.635	0.000
Post-transplant	7 days	253.65 (158.22-550.57)	127.35 (100.87-174.80)	-5.142	0.000
Post-transplant	1 month	182.00 (130.75-343.90)	144.00 (114.50-194.65)	-2.353	0.019
Post-transplant	3 months	146.50 (115.35-178.25)	139.50 (109.25-162.25)	-1.054	0.292
Post-transplant	6 months	144.42 (134.75-165.00)	138.00 (114.00-155.40)	-1.817	0.069
B, Urea					
Group		DCD n=58	LD n=54	t/Z	P-value
Pre-transplant	1 day	22.61±5.55	18.95±8.21	2.782	0.006
Post-transplant	1 day	27.12±6.54	20.70±6.13	5.353	0.000
Post-transplant	2 days	32.45 (25.55-36.42)	19.11 (14.85-24.54)	-6.893	0.000
Post-transplant	3 days	33.46 (24.30-40.88)	17.69 (12.68-21.49)	-6.574	0.000
Post-transplant	7 days	30.28 (18.75-48.44)	13.83 (11.27-17.66)	-6.003	0.000
Post-transplant	1 month	14.71 (8.73-21.30)	9.15 (7.55-12.40)	-3.002	0.003
Post-transplant	3 months	9.31 (7.28-14.05)	8.99 (7.31-11.26)	-0.786	0.432
Post-transplant	6 months	9.48 (8.60-11.75)	8.92 (6.55-10.34)	-1.884	0.060
C, eGFR					
Group		DCD n=58	LD n=54	t/Z	P-value
Pre-transplant	1 day	5.0 (4.00-6.00)	6.00 (5.75-9.00)	-4.668	0.000
Post-transplant	1 day	5.00 (4.00-6.00)	11.00 (8.00-16.00)	-7.101	0.000
Post-transplant	2 days	6.00 (5.00-10.00)	29.00 (15.50-39.00)	-7.413	0.000
Post-transplant	3 days	10.00 (6.00-18.00)	46.50 (27.75-58.50)	-6.851	0.000
Post-transplant	7 days	26.00 (10.00-41.00)	64.00 (43.75-84.50)	-5.362	0.000
Post-transplant	1 month	41.66±27.67	54.65±24.15	-2.650	0.009
Post-transplant	3 months	51.65 (39.74-73.00)	59.50 (48.00-71.25)	-1.538	0.124

months

Post-transplant months	6	58.80 (45.75-60.25)	58.80 (48.00-74.25)	-1.536	0.125
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Scr, serum creatinine; eGFR, estimated glomerular filtration rate; DCD, donation after cardiac death; LD, living donor