Supplementary Table 1. Discard category mapping for unilaterally discarded kidneys (n = 7,625)

Discard Category	UNOS Code	Reason	N	Total N
Extended Ischemia	601	Too old on pump	83	445
	602	Too old on ice	258	
	611	Warm ischemic time too long	40	
	699	Other, specify	64	
Organ Damage	603	Vascular damage	336	817
	604	Ureteral damage	49	
	612	Organ trauma	363	
	699	Other, specify	69	
Anatomical Abnormality	619	Anatomical abnormalities	924	1029
	699	Other, specify	105	
Poor Function	605	Inadequate urine output	3	934
	616	Poor organ function	704	
	699	Other, specify	227	
Donor History	606	Donor Medical history	76	563
	607	Donor social history	39	
	608	Positive CMV	3	
	610	Positive Hepatitis	144	
	617	Infection	4	
	618	Diseased organ	232	
	699	Other, specify	65	
Biopsy Findings	614	Biopsy findings	1596	1645
	699	Other, specify	49	
No Recipient Located	620	No recipient located - list exhausted	963	1004
	699	Other, specify	41	
Other	Missing	Unknown	96	1188
	613	Organ not as described	61	
	615	Recipient determined to be unsuitable for TX in OR	118	
	699	Other, specify	913	

Supplementary Table 2. Counts displayed for Table 4 (Kidney graft survival rates for (a) unilateral and (b) bilateral donor type transplants stratified by KDPI [adult single organ transplant recipients from 2000-2015 only])

KDPI[1]	Counts (n) for Observed Single Kidney Graft Survival Rates							
	1 Year		2 Years		3 Years		5 Years	
	Unilateral	Bilateral	Unilateral	Bilateral	Unilateral	Bilateral	Unilateral	Bilateral
1%	19	1,946	16	1,850	16	1,739	13	1,524
5%	12	1,640	10	1,552	9	1,456	9	1,278
10%	17	1,585	17	1,497	16	1,417	14	1,214
20%	32	1,495	30	1,363	29	1,275	25	1,079
30%	28	1,366	28	1,250	23	1,154	20	997
40%	37	1,595	34	1,487	31	1,381	27	1,186
50%	57	1,389	49	1,277	45	1,177	39	1,026
60%	71	1,244	65	1,152	58	1,072	52	940
70%	102	1,477	89	1,345	80	1,259	60	1,082
80%	95	1,057	91	974	82	903	72	785
90%	115	720	111	678	100	644	83	576
95%	148	746	140	711	134	661	117	581
99%	120	448	114	430	109	417	98	367

[1]KDPI is calculated using the scaling factor for 2015