

# Paired Exchange Results Quarterly Report

As of June 30, 2013

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## Message From the Founder

The first half of 2013 demonstrated continued growth in transplants facilitated with a 48% increase in volume over the same period last year. Transplants facilitated in the first half of 2013 rose to 144 which is an increase of 47 over the first half of last year. This brings us to 759 transplants since we started organizing swaps in 2008.

The average wait time for enrolled patients dropped approximately 20%, from 1.1 years in the prior quarter to 0.9 years in the current quarter. This significant reduction in patient wait time was driven by two factors, software enhancements made to the matching engine and a new match offer selection policy adopted by our Medical Board. These improvements also allowed us to match many more highly sensitized patients. In the first half of this year 34% of the transplanted patients had a cPRA > 80% compared to 23% during the same period last year.

This quarter we also saw a reduction in the number of swaps cancelled which we attribute to an intensified focus on the collection and analysis of root cause and corrective action plans whenever swaps fail. The conversion rate from match acceptance to transplant increased from 26% to 31%, quarter over quarter. We hope this trend continues as our member centers fine tune their internal processes to eliminate preventable swap failures, thereby improving the reliability of our service to patients in need of a transplant.

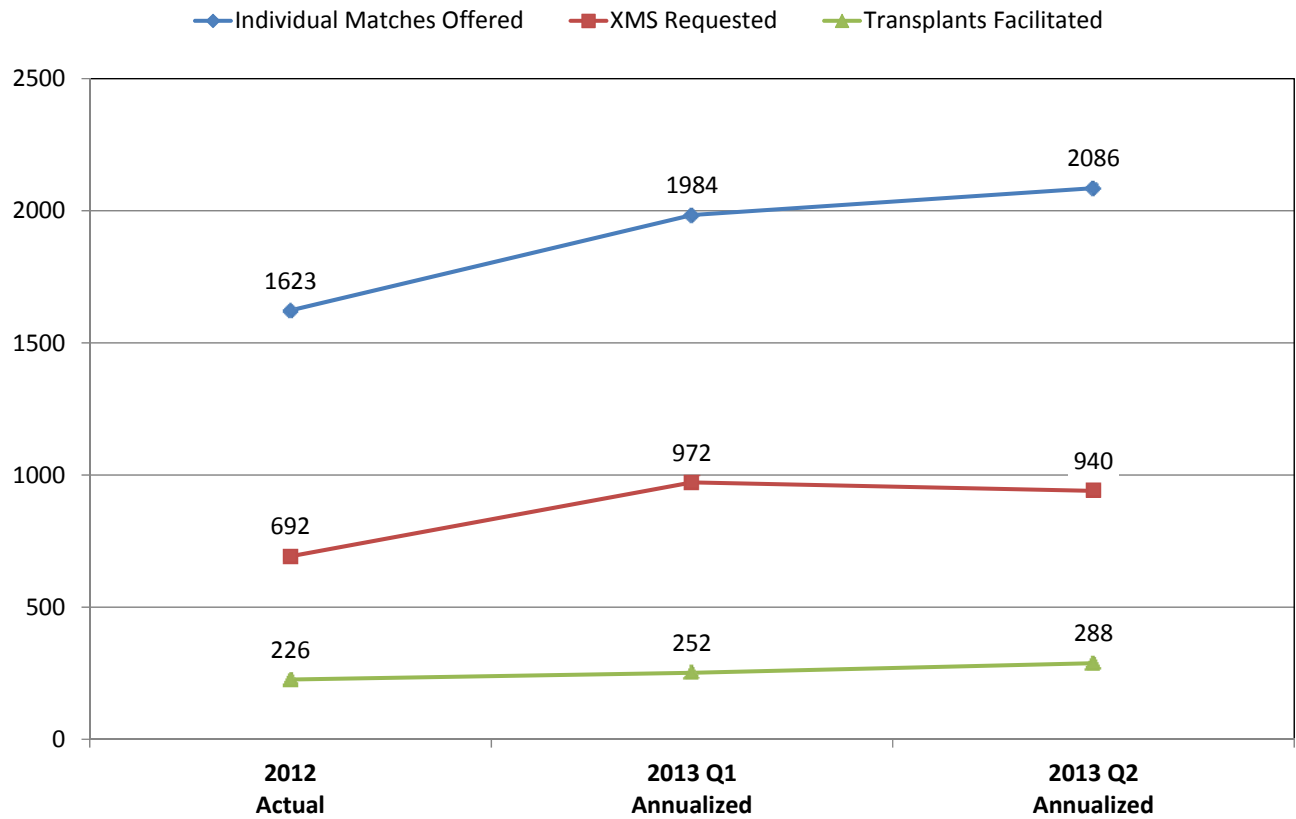
None of this success would be possible without the effort and dedication of the medical professionals at our Member Centers. Thank you - and keep up the great work.

Sincerely

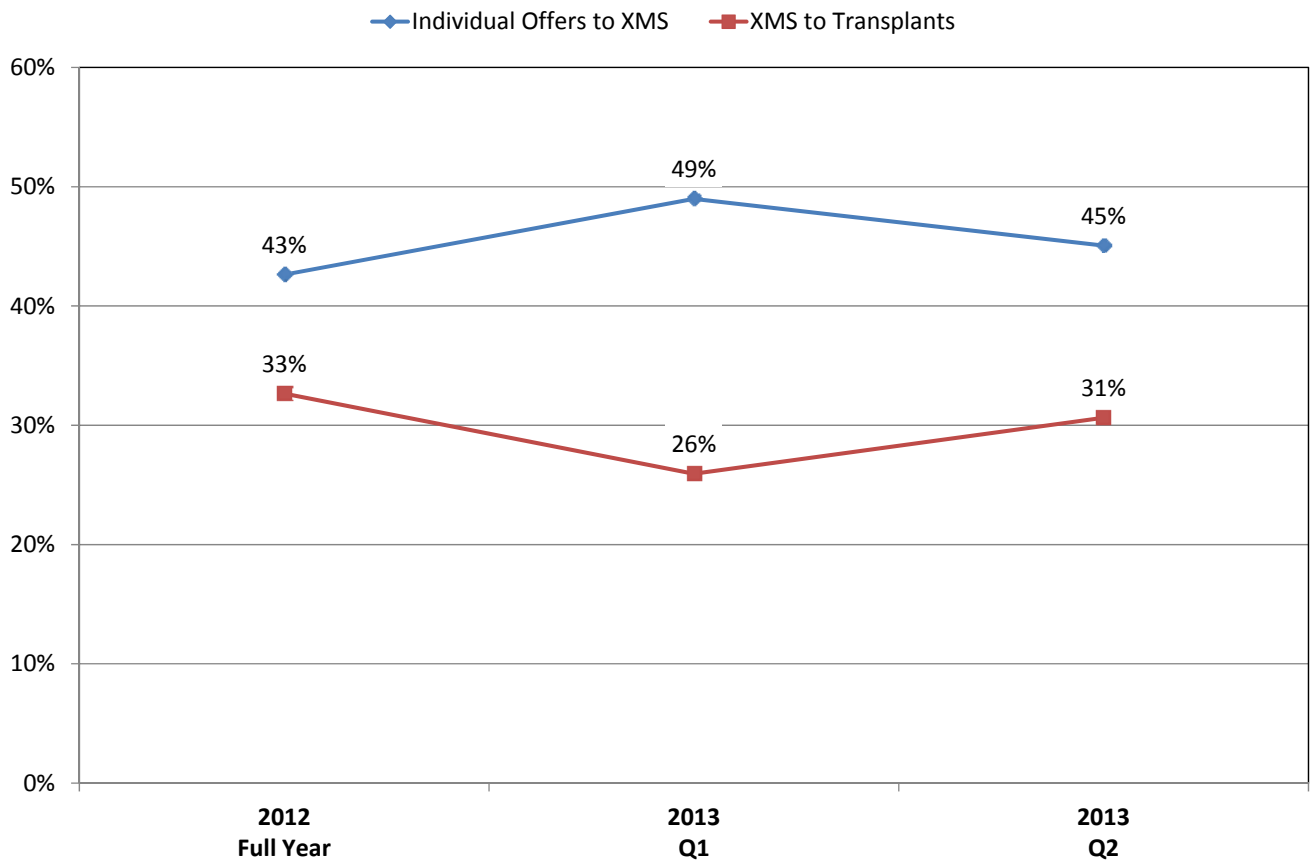
A handwritten signature in blue ink, appearing to read 'G. Hil'.

Garet Hil  
Founder & CEO  
National Kidney Registry

## Process Volume

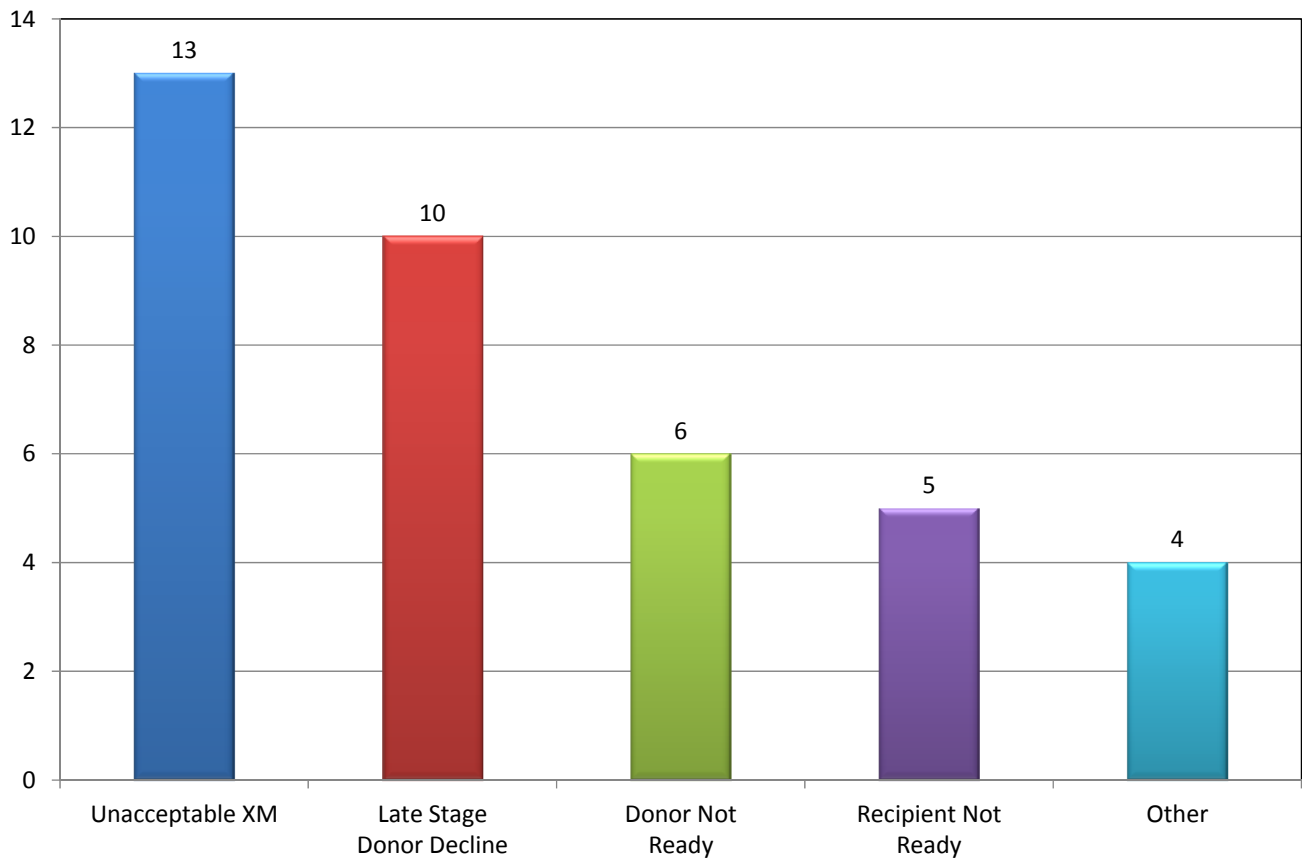


## Match Conversion Rates

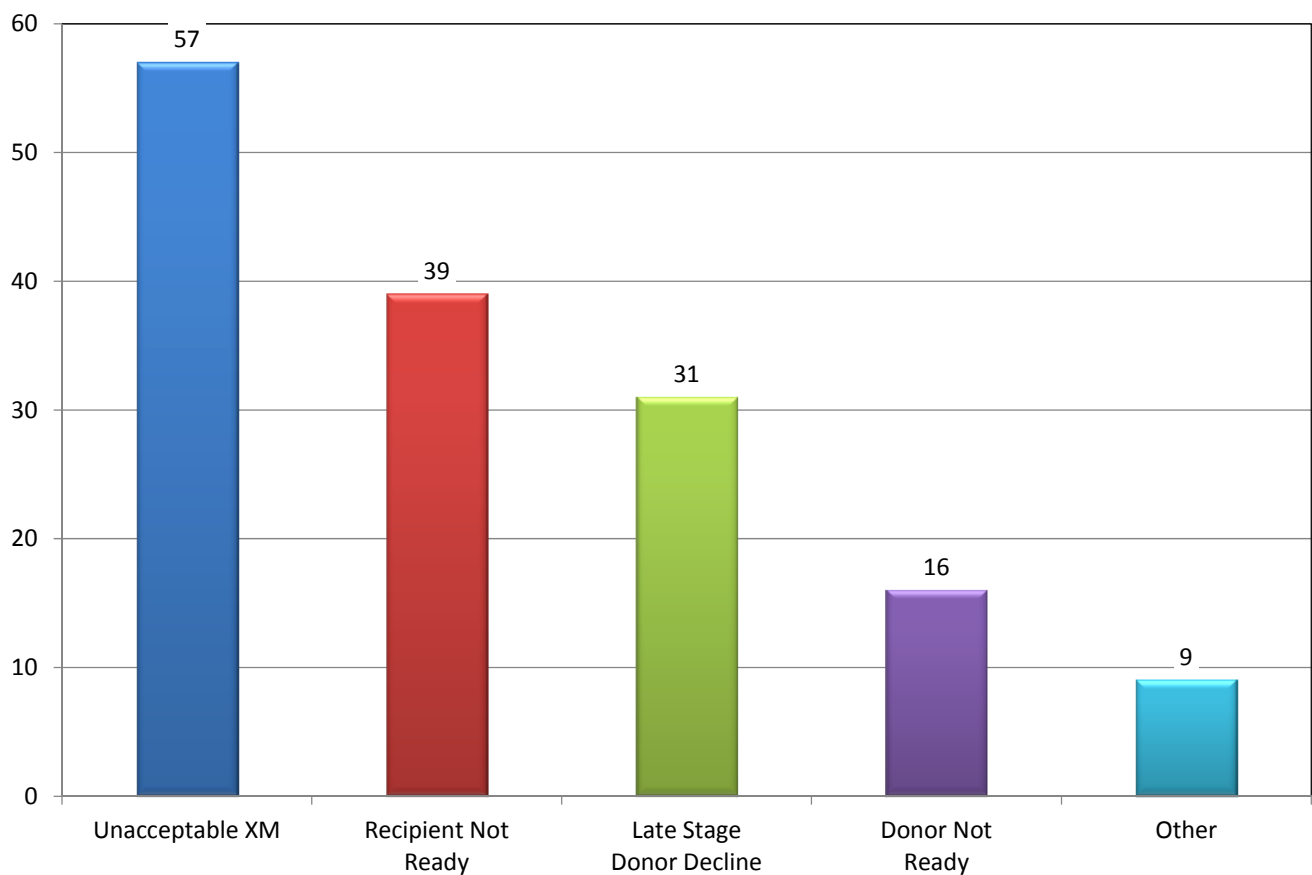


# Swap Failures by Primary Root Cause

As of 6/30/2013

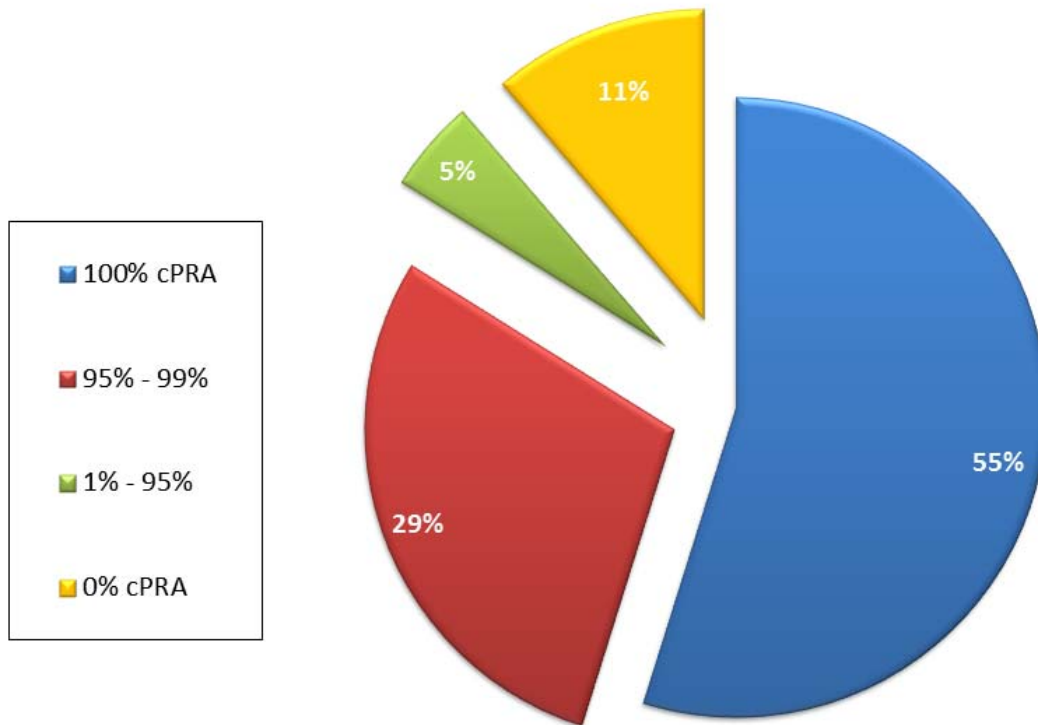


# Transplants Impacted by Primary Root Cause



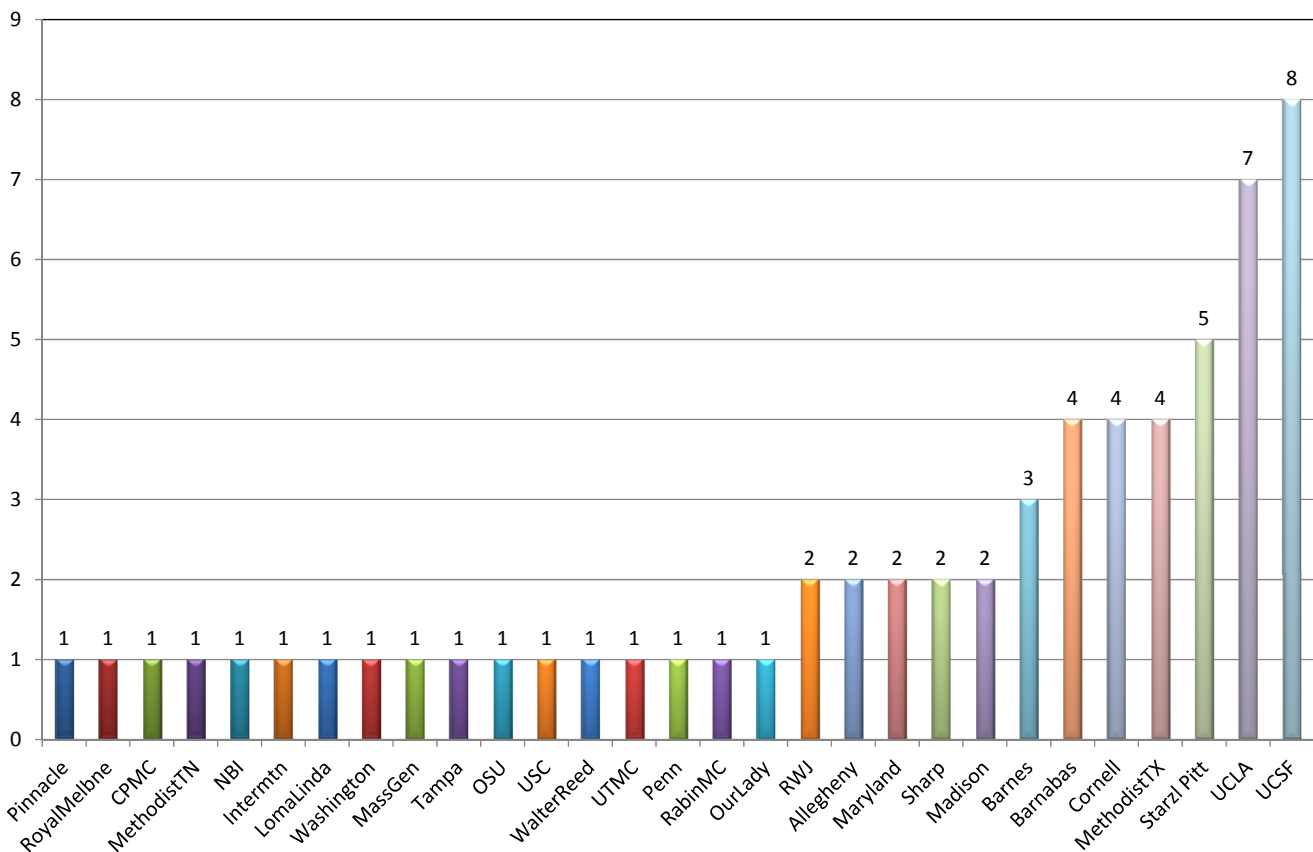
## Patients Waiting > 1 Year by cPRA

As of 6/30/2013



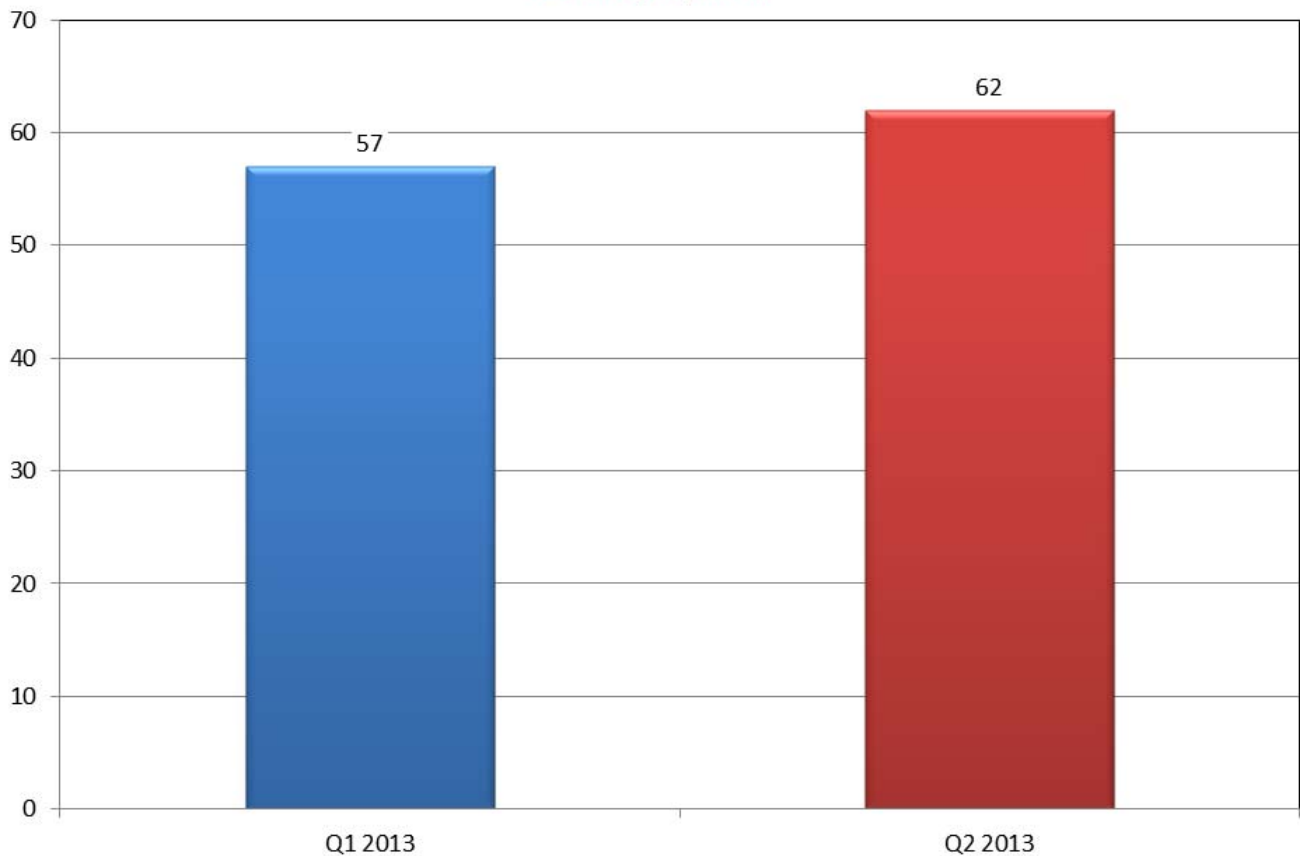
## Patients Waiting > 1 Year by Center

As of 6/30/2013

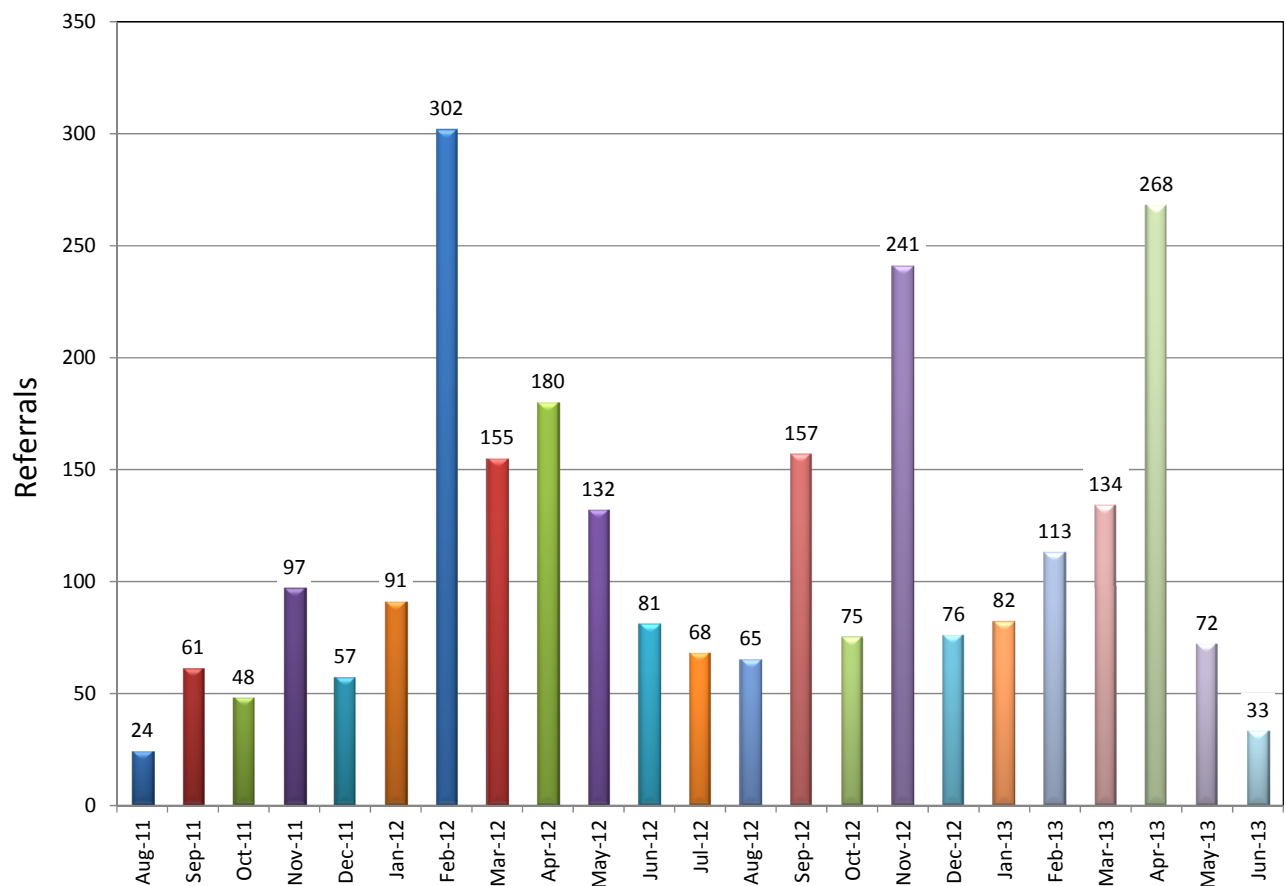


## Patients waiting > 1 Year

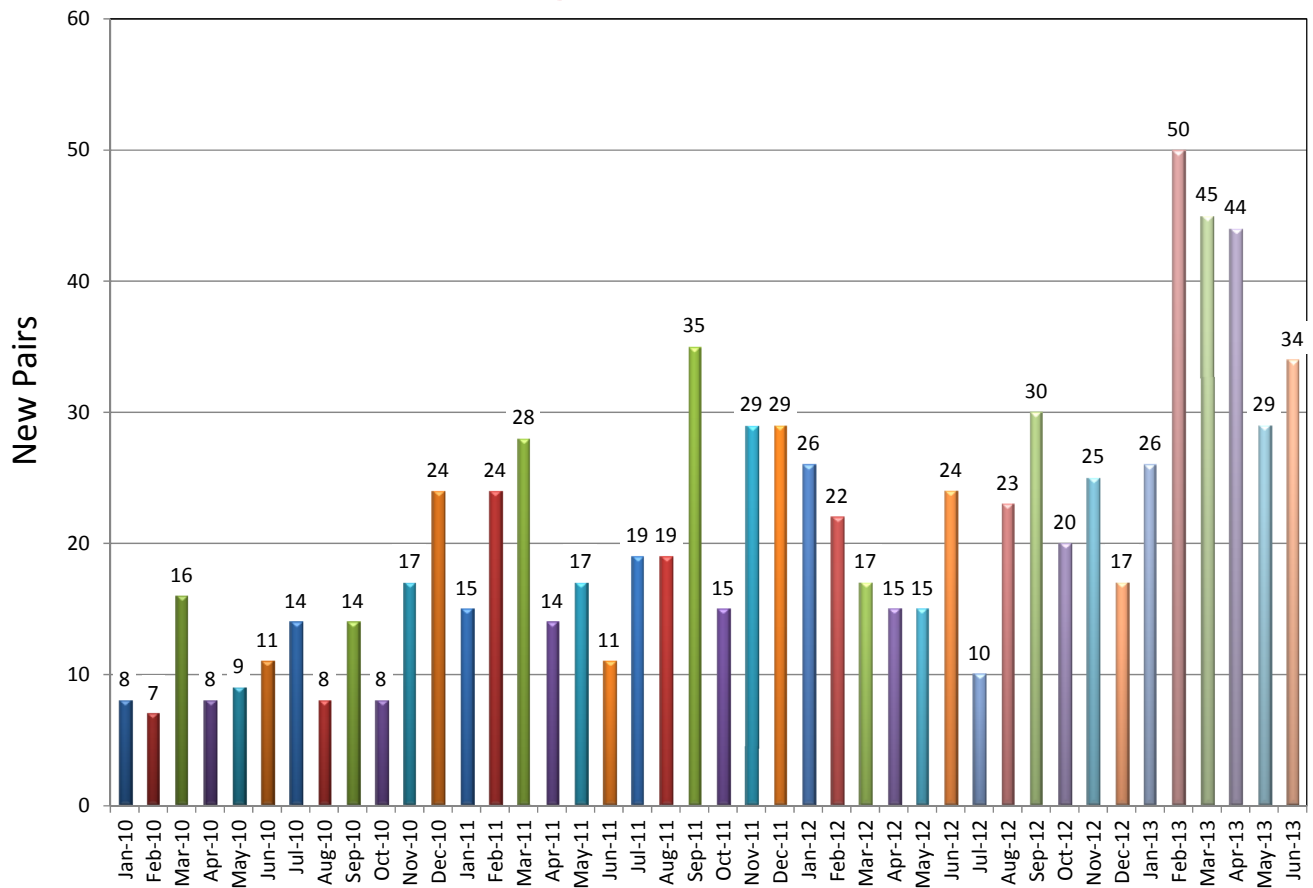
As of 6/30/2013



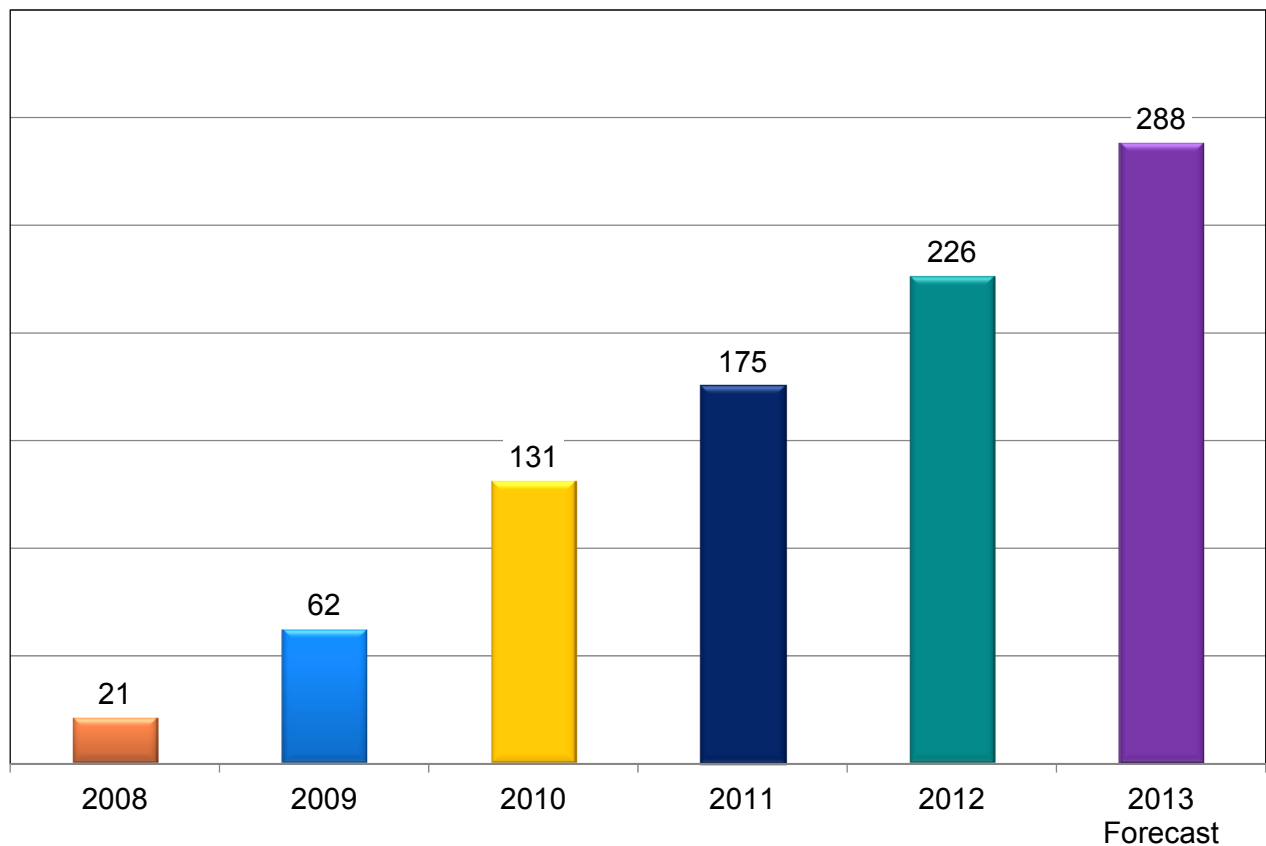
## Patient Referrals to NKR Member Centers



## New Pair Registrations Per Month

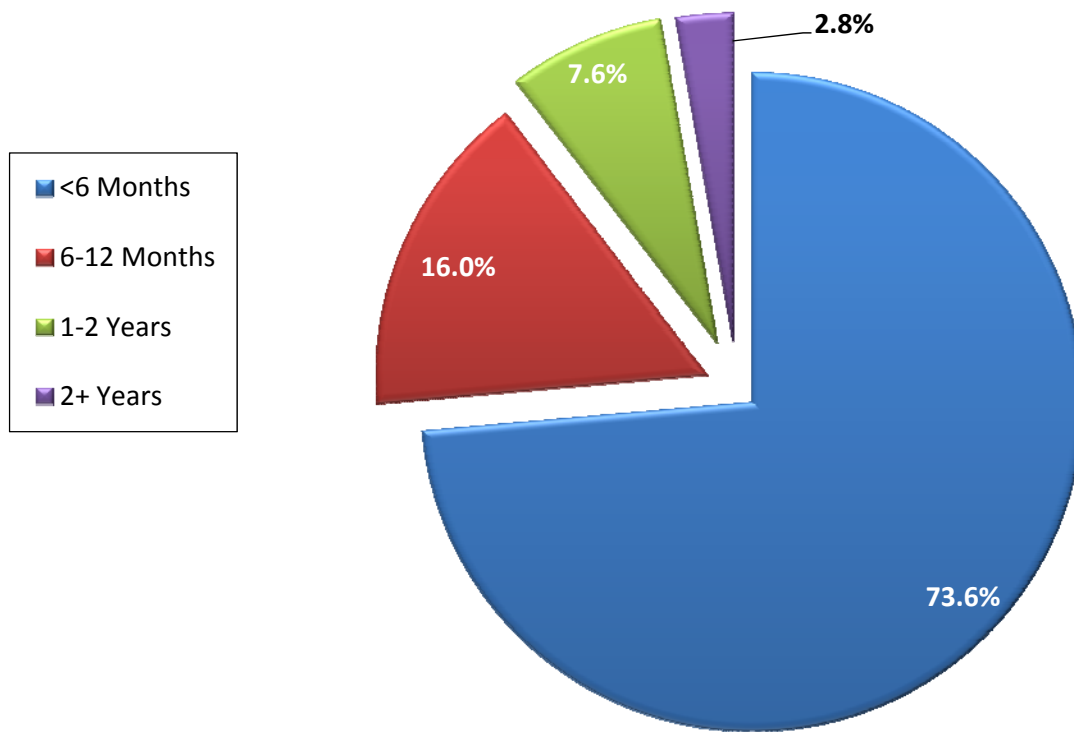


## Transplants Facilitated by Year

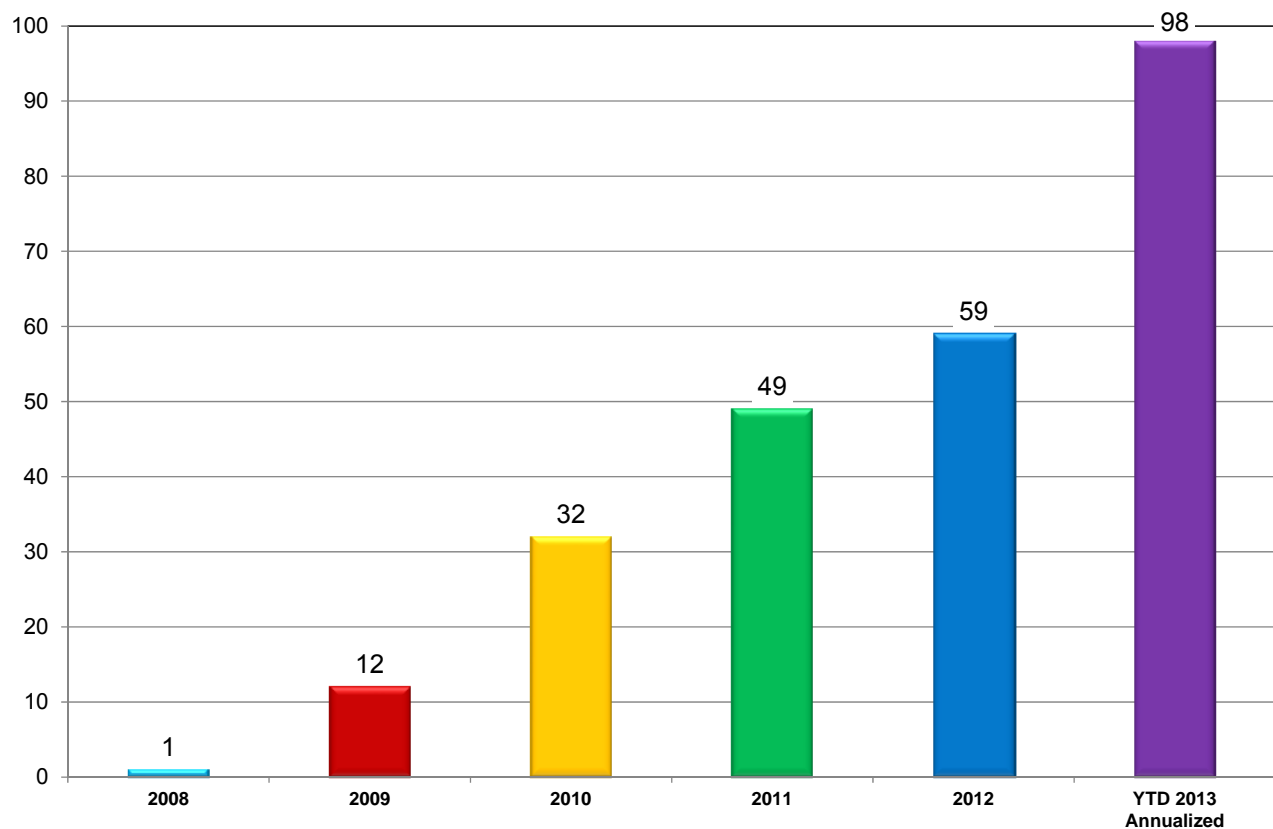


## 2013 Transplants by Wait Time

90% of transplanted patients waited < 12 months

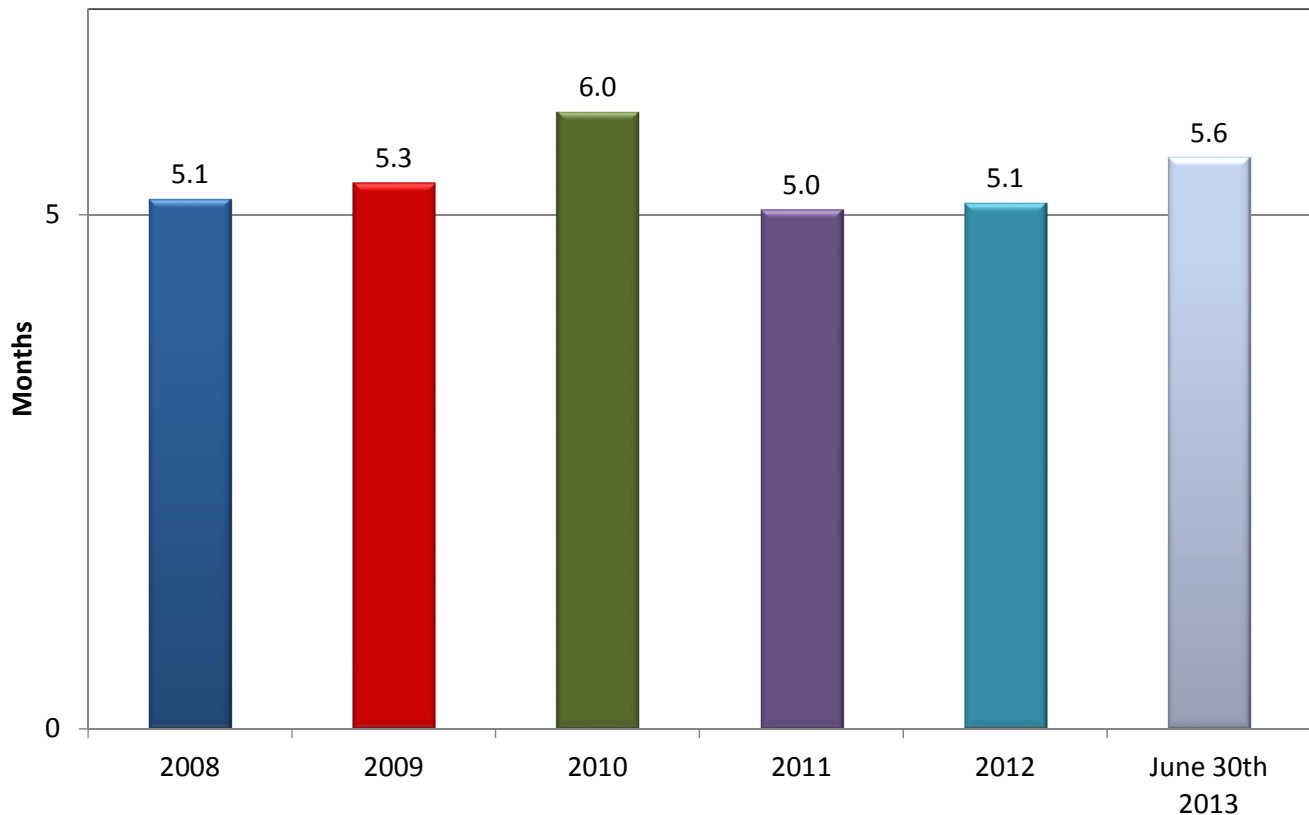


## Transplanted Patients with cPRA > 80%



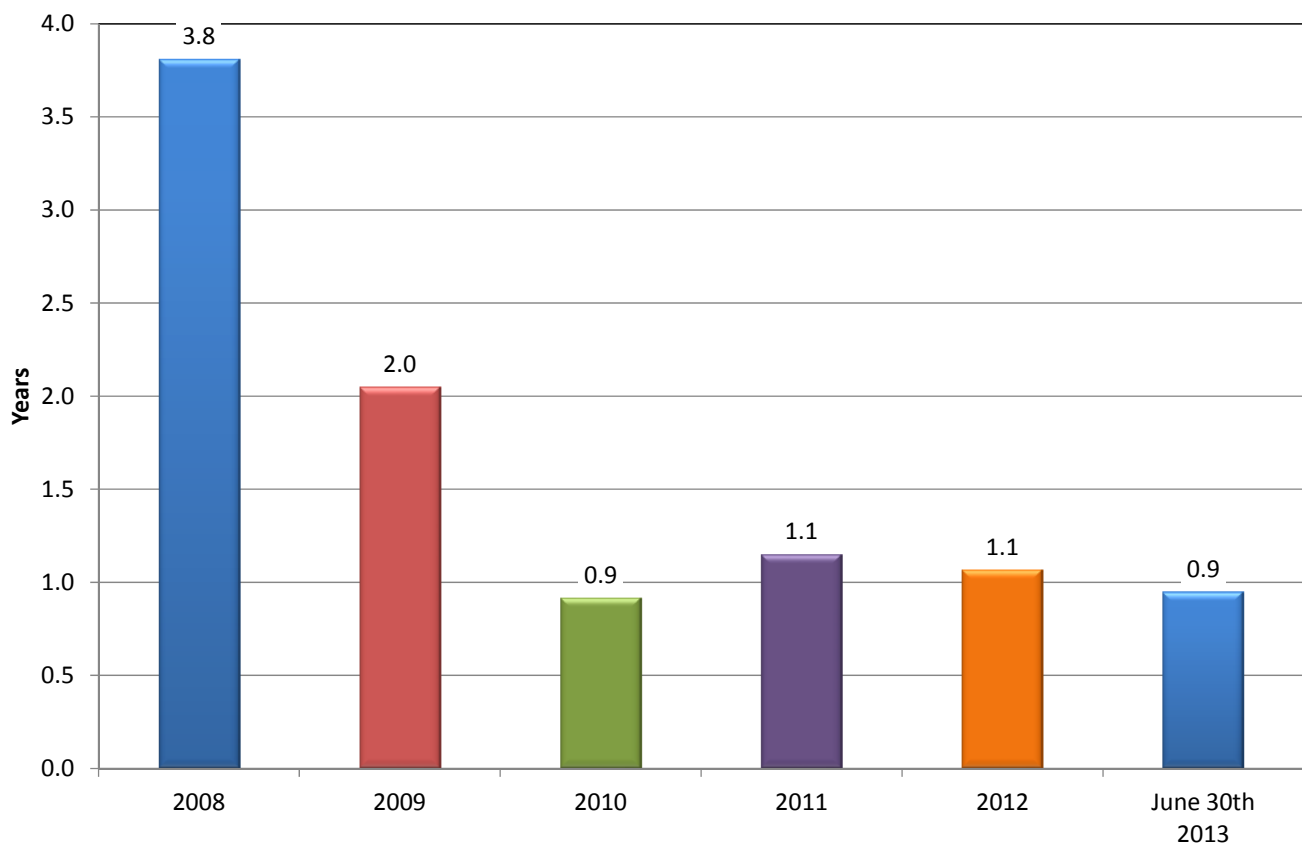
## Transplanted Patient Average Wait Time

The average of the actual wait times of patients transplanted during the year

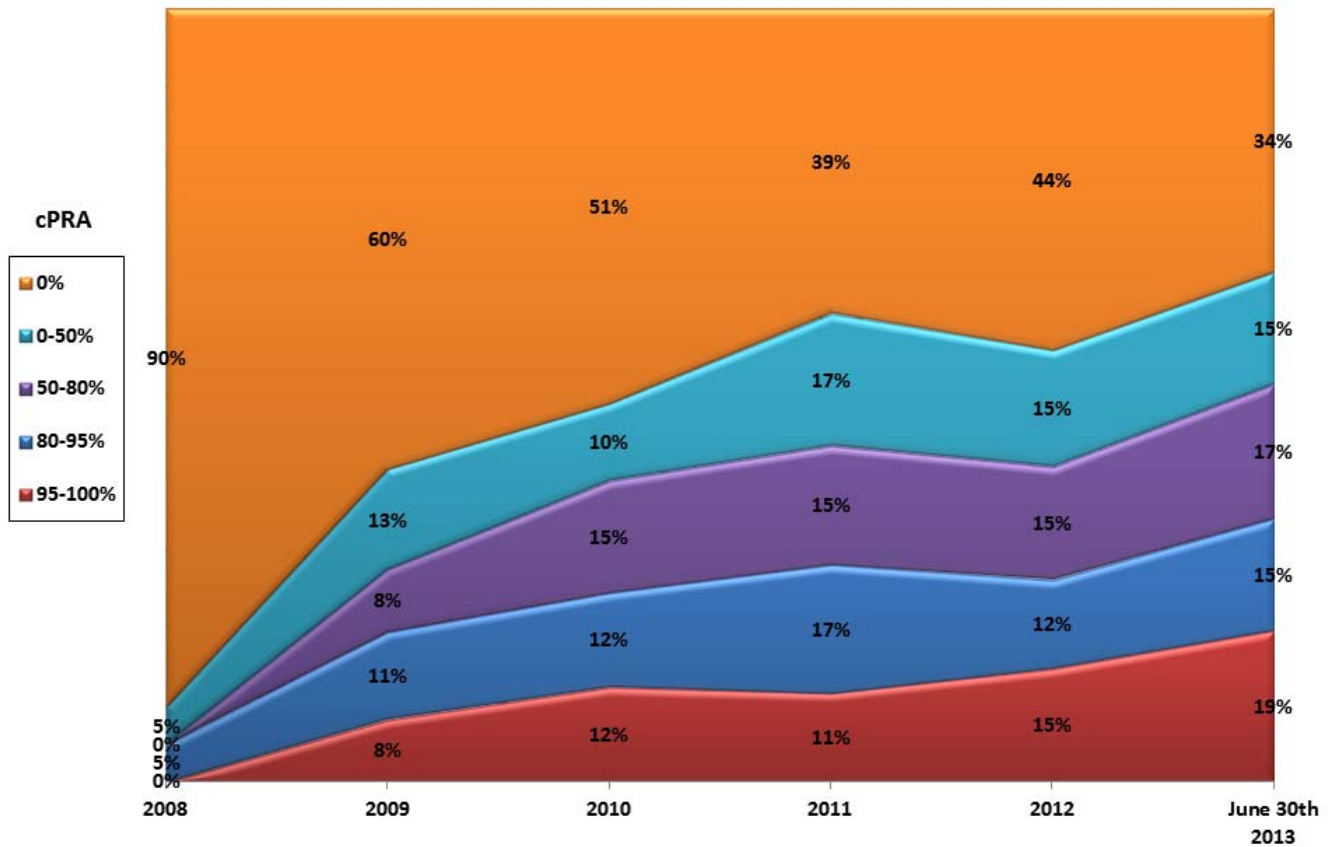


## Enrolled Patient Average Wait Time

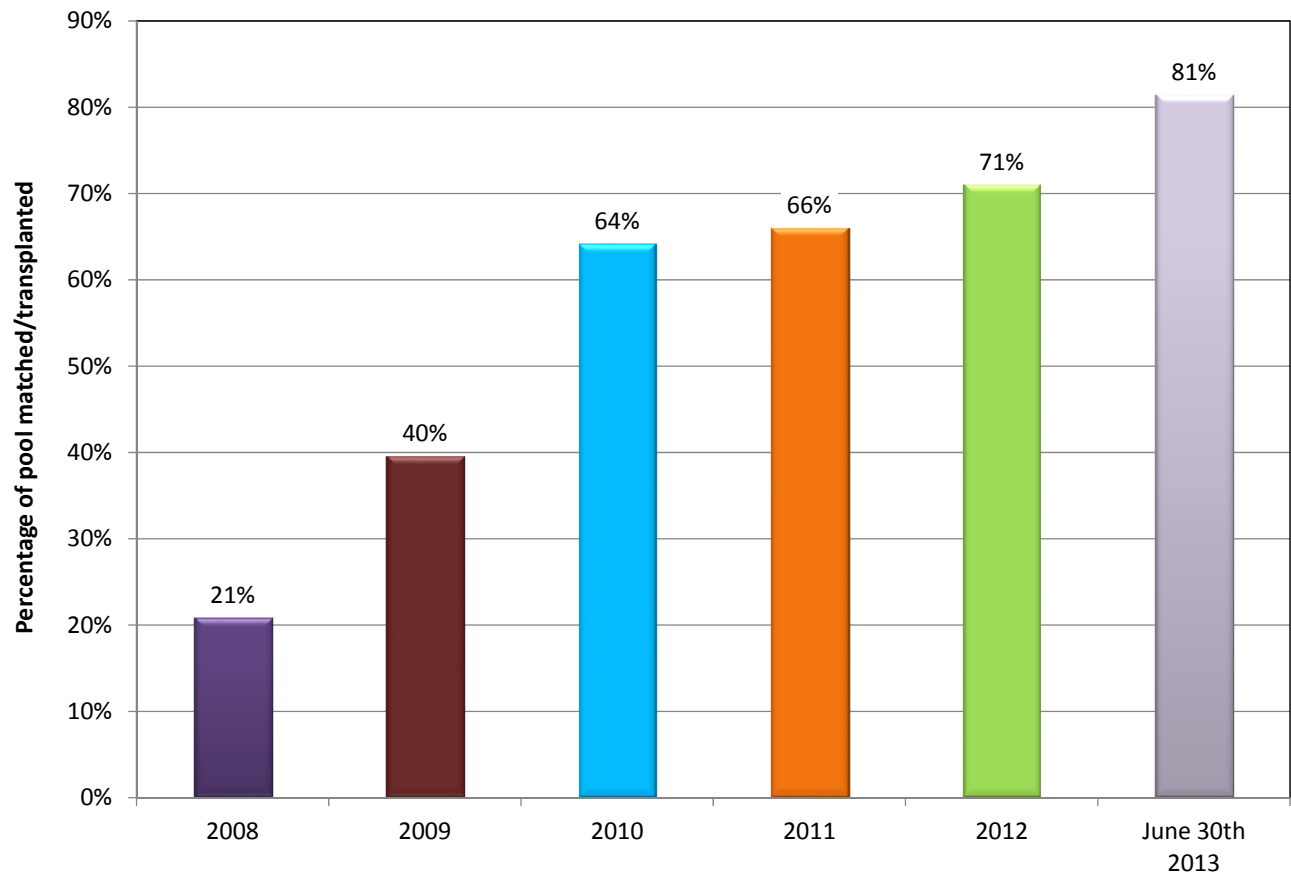
Ending unmatched patient pool/annual transplant run rate



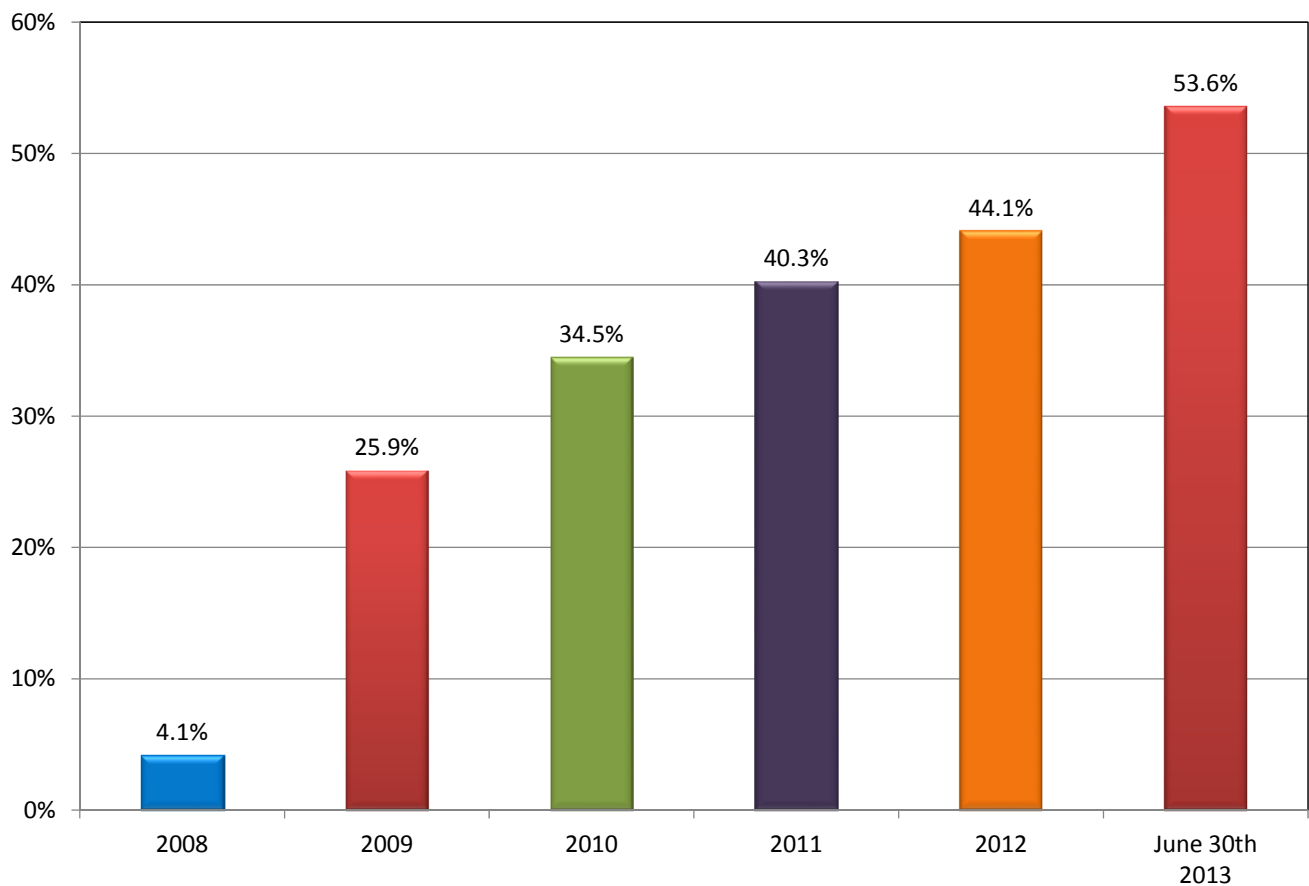
## Transplanted Patients by Year by cPRA



## Cumulative Pool Matched/Transplanted by Year

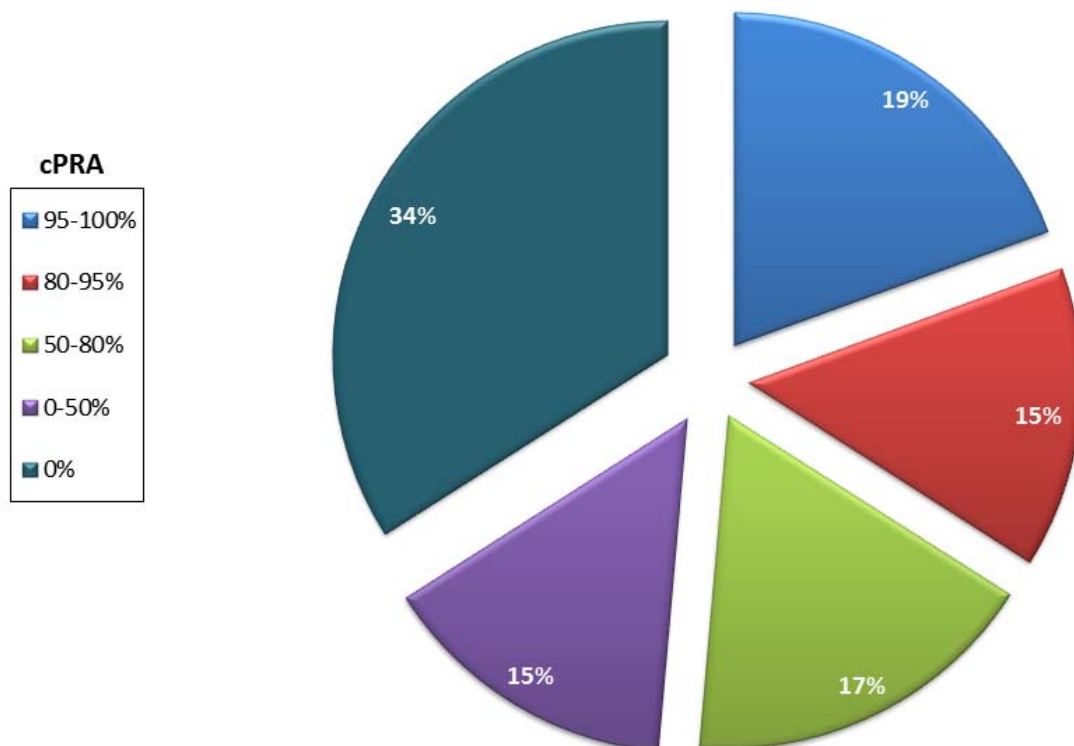


## Average cPRA of Transplanted Patients by Year



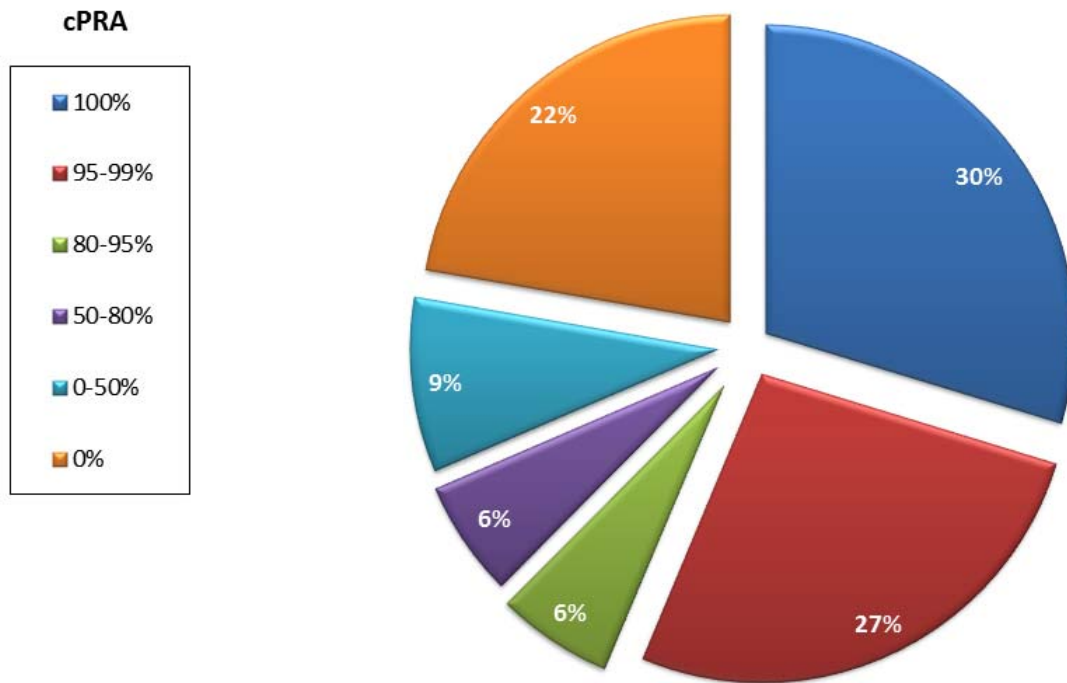
## Transplants by cPRA

1/1/2013 - 6/30/2013

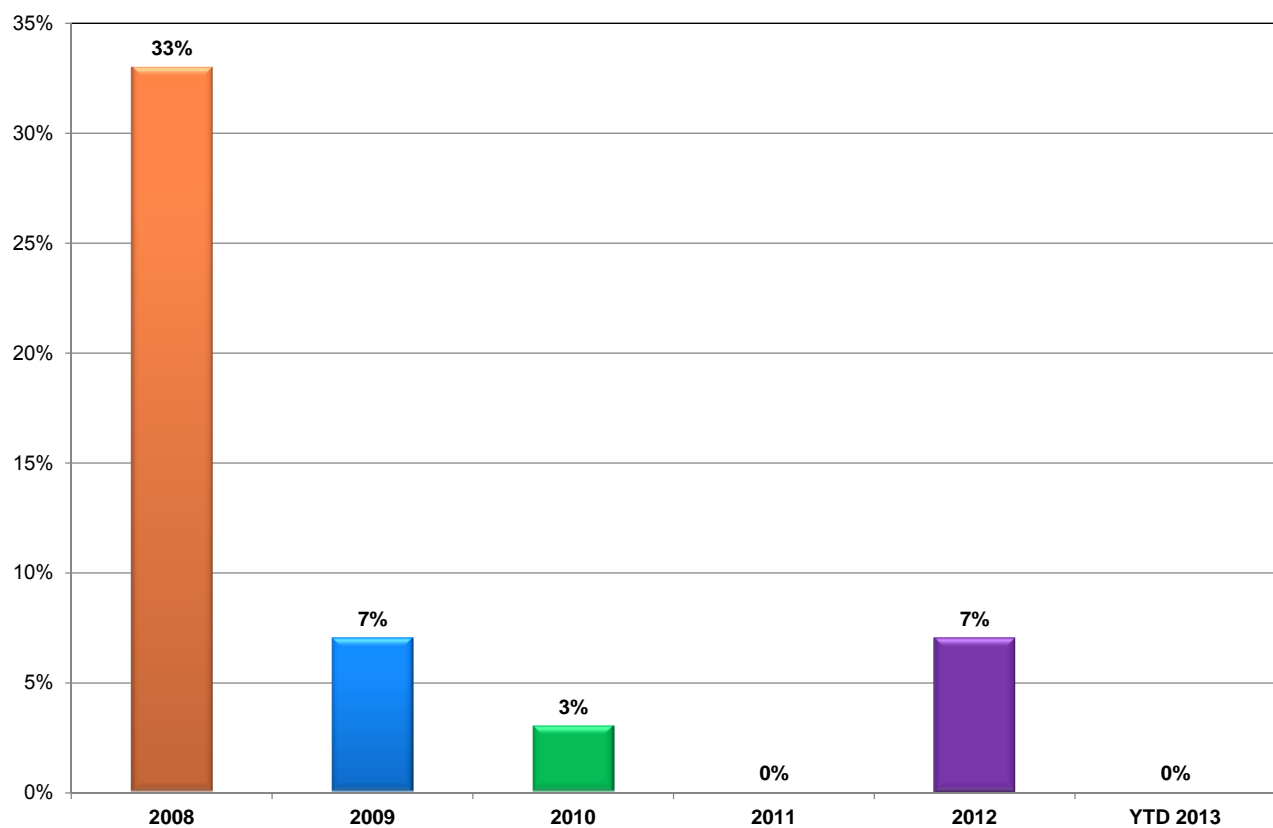


# Pool Composition by cPRA

As of 6/30/2013



## Broken Chains by Year - Summary



## Broken Chains by Year - Detail

<b>Year</b>	<b># Bridge Donors</b>	<b># Broken Chains</b>	<b>% Broken Per Year</b>
2008	9	3	33%
2009	29	2	7%
2010	61	2	3%
2011	75	0	0%
2012	54	4	7%
2013 Est.	32	0	0%
<b>Total Bridge Donors</b>	<b>228</b>	<b>11</b>	

## Summary of Broken Chains

<b>#</b>	<b>Reason Given</b>	<b>Center</b>	<b>Date</b>
1	Job Issues/ long wait time/ many failed XMs	Cornell	5/1/2008
2	No Reason	Cornell	8/21/2008
3	No Reason	CPMC	11/19/2008
4	Two cancelled swaps/ long wait time	UTMC	6/9/2009
5	Medical	UCSF	11/10/2009
6	Medical	UCLA	3/16/2010
7	Second nuclear GFR test < 80 (79 down from 82)	AGH	9/16/2010
8	No Reason	MethodistTX	2/3/2012
9	No Reason	UCSF	4/4/2012
10	Medical	UCLA	6/28/2012
11	Medical/Surgical	Washington	11/5/2012

# NKR Program Statistics

		2008	2009	2010	2011	2012	June 30th 2013
1	Transplants Facilitated	21	62	131	175	226	144
2	Paired Transplants Facilitated	21	39	91	131	164	121
3	Chip Transplants Facilitated	0	23	40	44	62	23
4	Ending Unmatched Patient Pool	80	127	120	201	241	229
5	Cumulative Transplants	21	83	214	389	615	759
6	Cumulative Paired Transplants	21	60	150	280	526	647
7	Cumulative Chip Transplants	0	23	64	109	89	112
8	Cumulative Paired Patient Pool	101	210	334	590	805	933
9	Percent of Pool Transplanted (Paired Recipients)	21%	40%	64%	66%	71%	81%
10	Enrolled Patient Average Wait Time (years)	3.8	2.0	0.9	1.1	1.1	0.9
11	Transplanted Patient Average Wait Time (months)	5.1	5.3	6.0	5.0	5.1	5.6
12	Average cPRA of Transplanted Patients	4.1%	25.9%	34.5%	40.3%	44.1%	53.6%
13	Number of Transplants Completed by cPRA						
14	100%	0	1	4	10	4	1
15	95-100%	0	4	12	10	29	27
16	80-95%	1	7	16	29	26	21
17	50-80%	0	5	19	27	33	25
18	0-50%	1	8	13	30	34	21
19	0%	19	37	67	69	100	49
20	Sub-total	21	62	131	175	226	144
21	Percent of Transplants Completed by cPRA						
22	100%	0%	2%	3%	6%	2%	1%
23	95-100%	0%	6%	9%	6%	13%	19%
24	80-95%	5%	11%	12%	17%	12%	15%
25	50-80%	0%	8%	15%	15%	15%	17%
26	0-50%	5%	13%	10%	17%	15%	15%
27	0%	90%	60%	51%	39%	44%	34%
28	Sub-total	100%	100%	100%	100%	100%	100%
29	Number of Transplanted Patients with cPRA >80%	1	12	32	49	59	49
30	Percent of Transplanted Patients with cPRA >80%	5%	19%	24%	28%	26%	35%
31	Number of Unmatched Patients by cPRA (6/30/2013)						
32	100%					73	68
33	95-99%					73	61
34	80-95%					15	14
35	50-80%					11	14
36	0-50%					10	21
37	0%					59	51
38	Sub-total					241	229
39	Percent of Unmatched Patients by cPRA (6/30/2013)						
40	100%					30%	30%
41	95-99%					30%	27%
42	80-95%					6%	6%
43	50-80%					5%	6%
44	0-50%					4%	9%
45	0%					24%	22%
46	Sub-total					100%	100%
47	Number of Transplants Completed by Wait Time (6/30/2013)						
48	< 6 months	21	42	74	106	180	106
49	6-12 months	0	10	14	19	24	23
50	1-2 years	0	4	15	14	20	11
51	2+ years	0	0	2	2	2	4
52	Sub-total	21	56	105	141	226	144
53	Percent of Transplants Completed by Wait Time (6/30/2013)						
54	< 6 months	100.0%	75.0%	70.5%	75.2%	79.6%	73.6%
55	6-12 months	0.0%	17.9%	13.3%	13.5%	10.6%	16.0%
56	1-2 years	0.0%	7.1%	14.3%	9.9%	8.8%	7.6%
57	2+ years	0.0%	0.0%	1.9%	1.4%	0.9%	2.8%
58	Sub-total	100%	100%	100%	100%	100%	100%
59	Total Chains Started	3	8	28	38	54	29
60	Total Loops Completed	0	3	2	3	12	13
61	Number of broken chains	3	2	2	0	4	0
62	Bridge Donors Held (2013 estimated)	9	29	61	75	54	32
63	Percent of broken chains	33%	7%	3%	0%	7%	0%



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