

Paired Exchange Results Quarterly Report

As of December 31, 2018

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Message from the Founder and CEO

We are pleased to report strong growth this year with 619 KPD transplants facilitated in 2018, up from 462 transplants in 2017, driving a year over year growth rate of 34%. Additionally, in 2018 we surpassed the 3,000 transplant program-to-date milestone.

With 3,000+ transplants facilitated over 10 years, we have increased our investments in research to measure outcomes of NKR facilitated transplants compared to other relevant cohorts. The initial transplant outcome results included in this report demonstrate that NKR facilitated transplants exhibit lower graft failure rates and lower patient mortality rates over time.

After three years of preparation, we have successfully launched the Family Voucher pilot program which removes the restriction that a voucher recipient must have some form of kidney impairment. The Family Voucher program allows up to 5 immediate family members, not in imminent need of a transplant, to receive Vouchers. We plan to complete the pilot phase over the next 3-6 months and make the Family Voucher program available to all member centers later in the year.

With 25 centers now using the DASH automated donor work flow systems, we have further enhanced the capabilities of the platform with the successful launch of the Microsite module. This new module allows patients who are on the kidney transplant wait list to set up a personalized web site at no cost so they can share their story with potential donors. The personalized web site is designed to help patients find a living donor and is directly connected to the DASH intake systems so that potential donors can begin the DASH screening process right from the microsite page. We believe the Microsite module will facilitate more living donor transplants by enabling patients to find donors by leveraging the internet, social media and other forms of outreach.

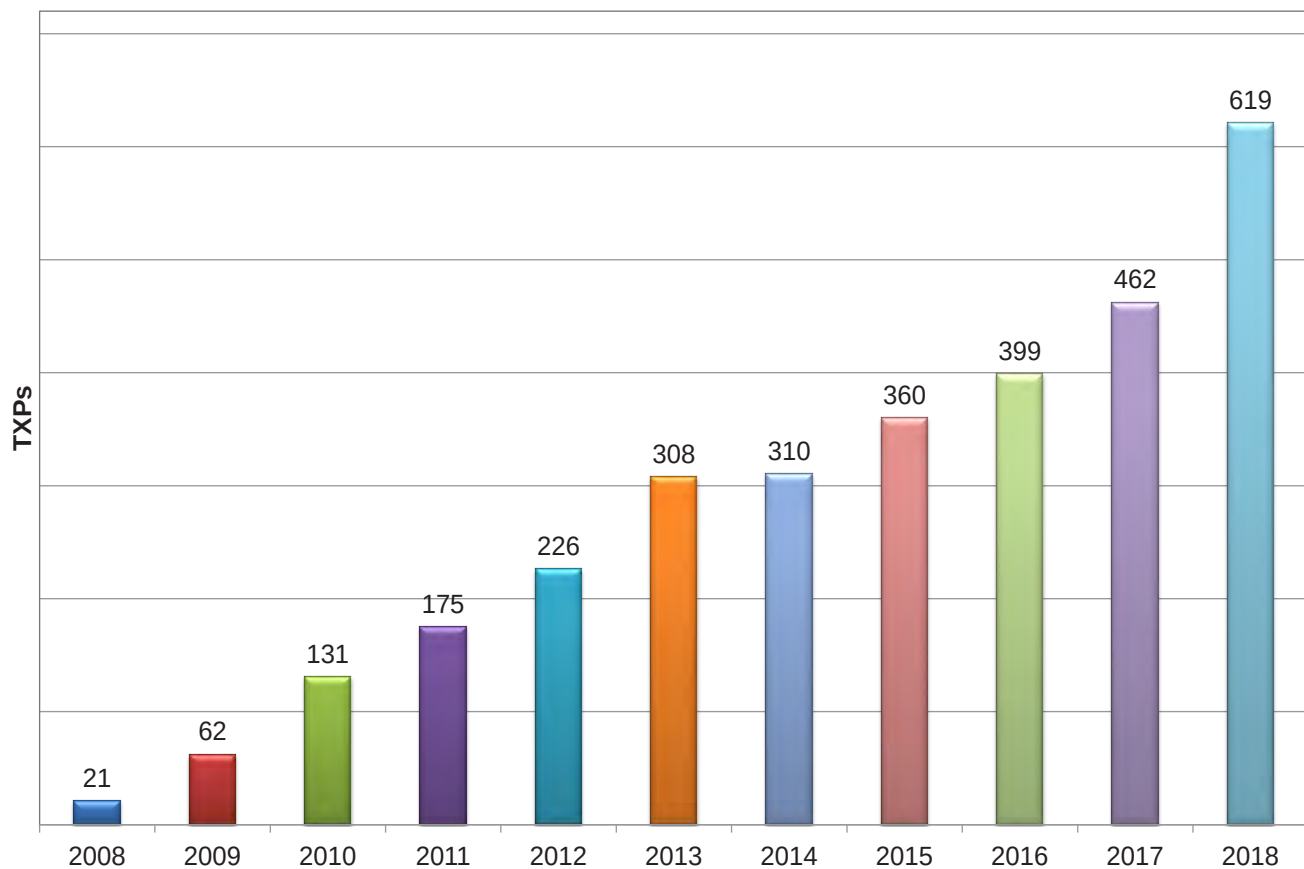
It is the ongoing dedication and effort of our Member Centers that enable us to continue breaking records and achieving new milestones. Thank you for your support and keep up the great work.

Sincerely,

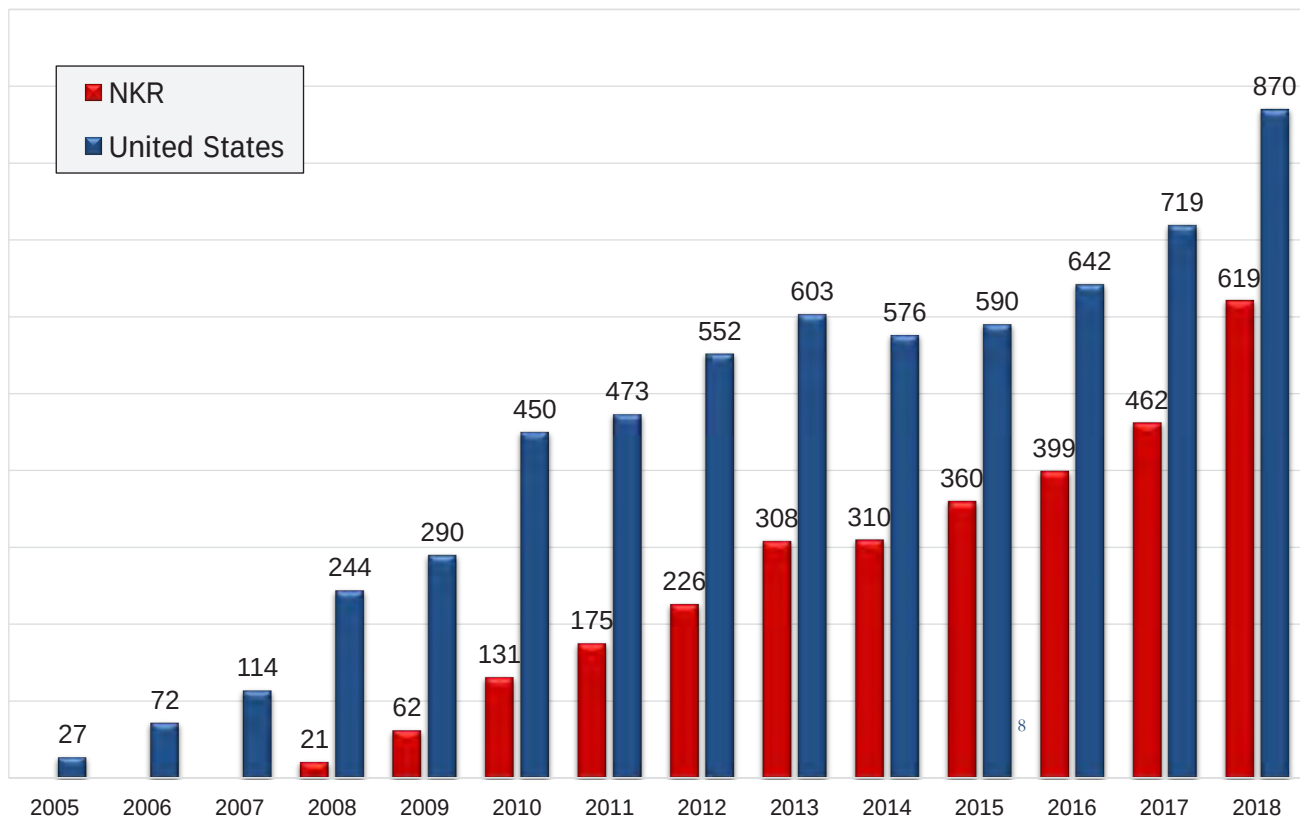
A handwritten signature in blue ink, appearing to be 'G Hil', with a long, sweeping horizontal line extending to the right.

Garet Hil
Founder & CEO
National Kidney Registry

KPD Transplants Facilitated

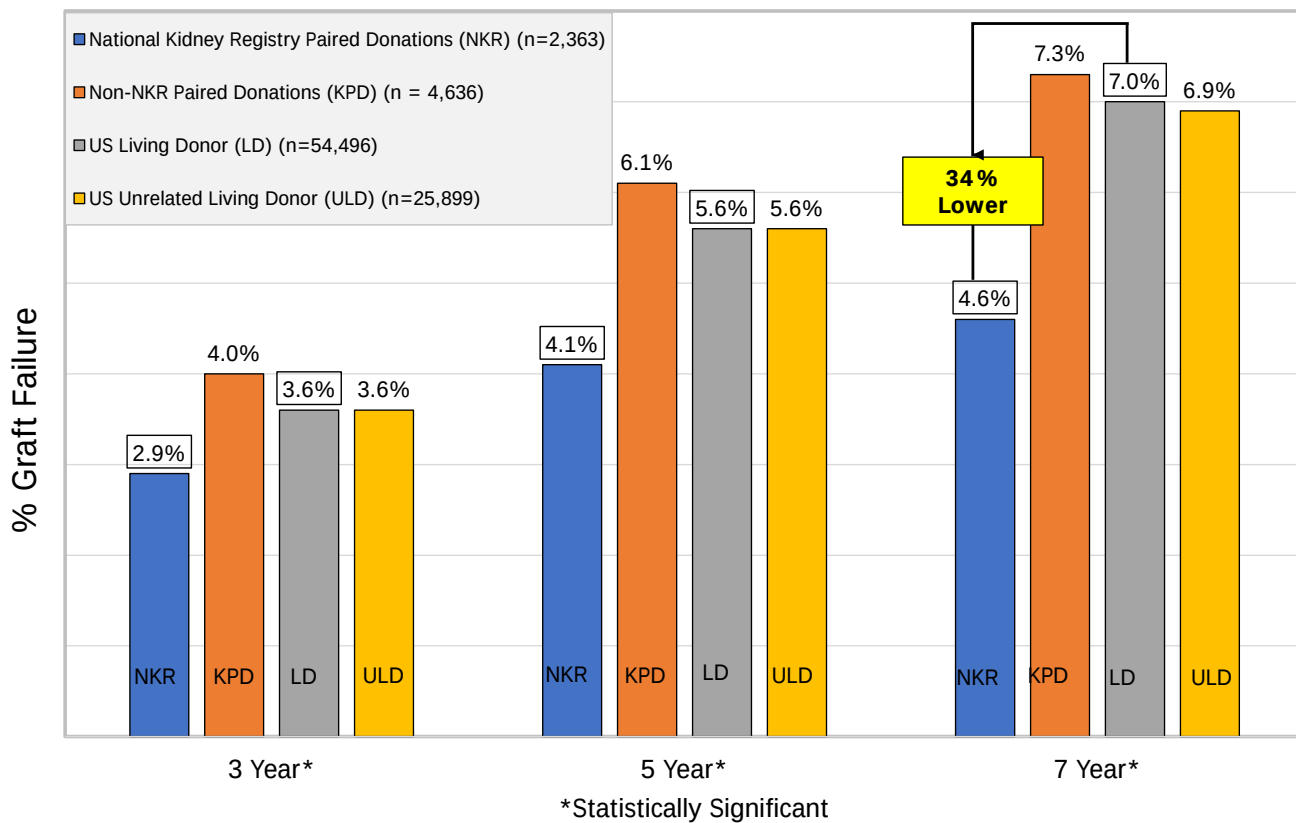


NKR Leading U.S. KPD Growth



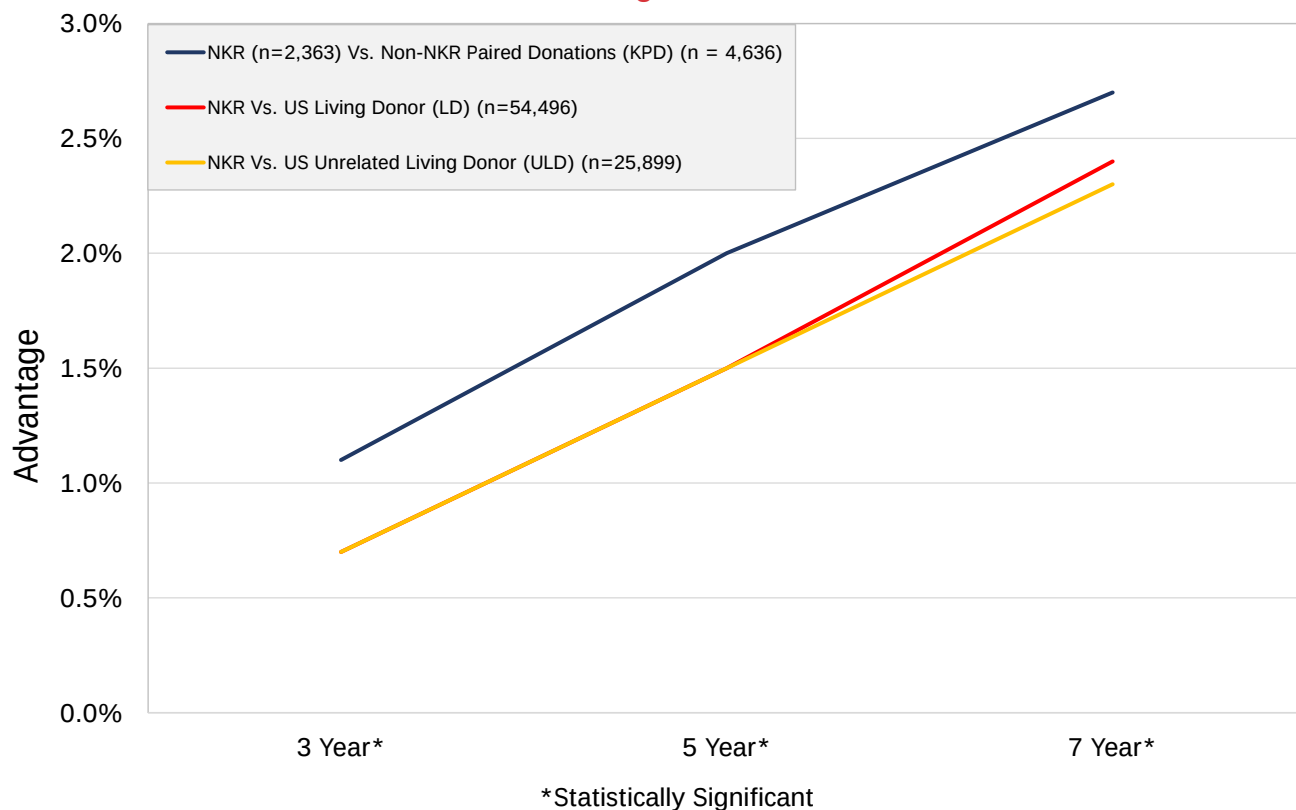
*Organ Procurement and Transplantation Network. <https://optn.transplant.hrsa.gov/> Accessed 10/31/18

34% Lower Transplanted Kidney Failure Rate



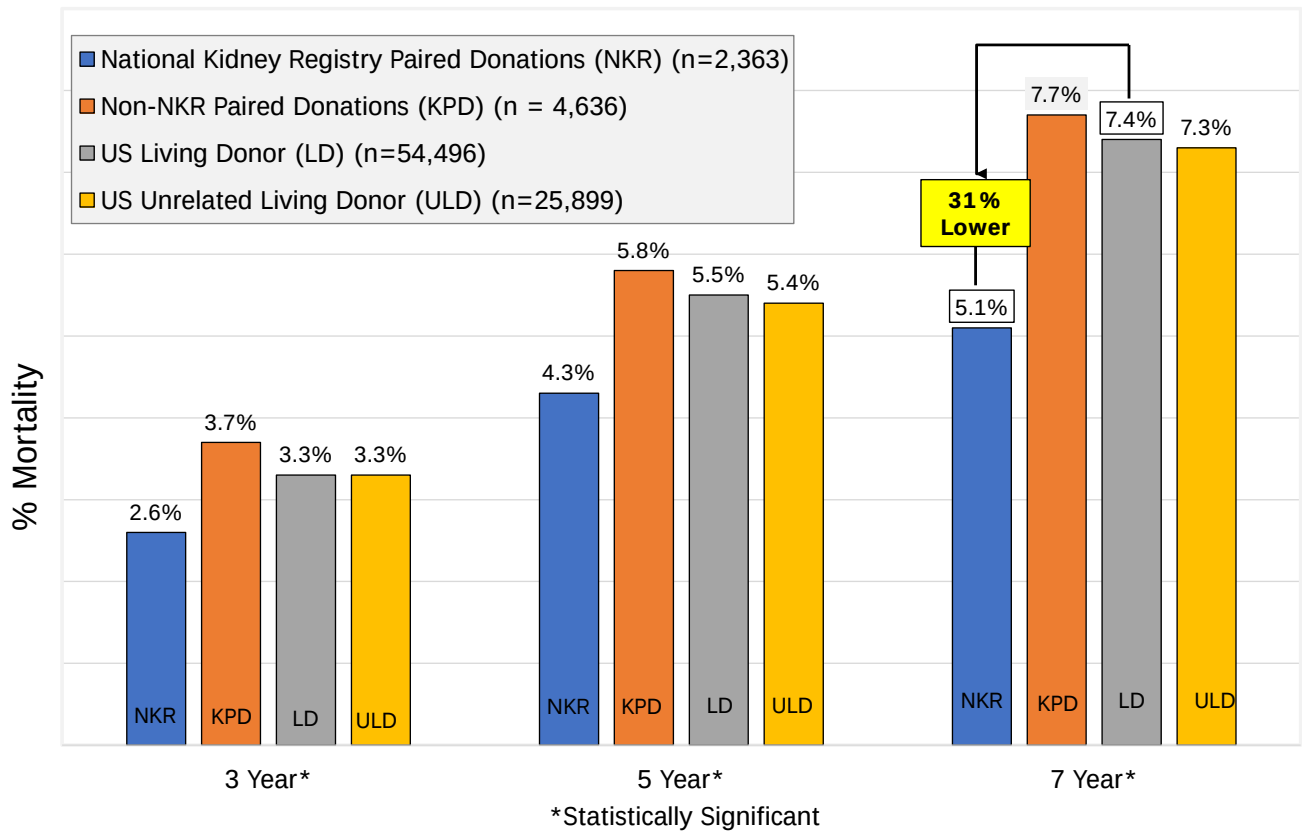
Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including CHIP patients;
Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 12/31/2017 <https://www.srtr.org/> SRTR data as of June, 2018

NKR Death Censored Graft Survival Advantage Increasing Over Time



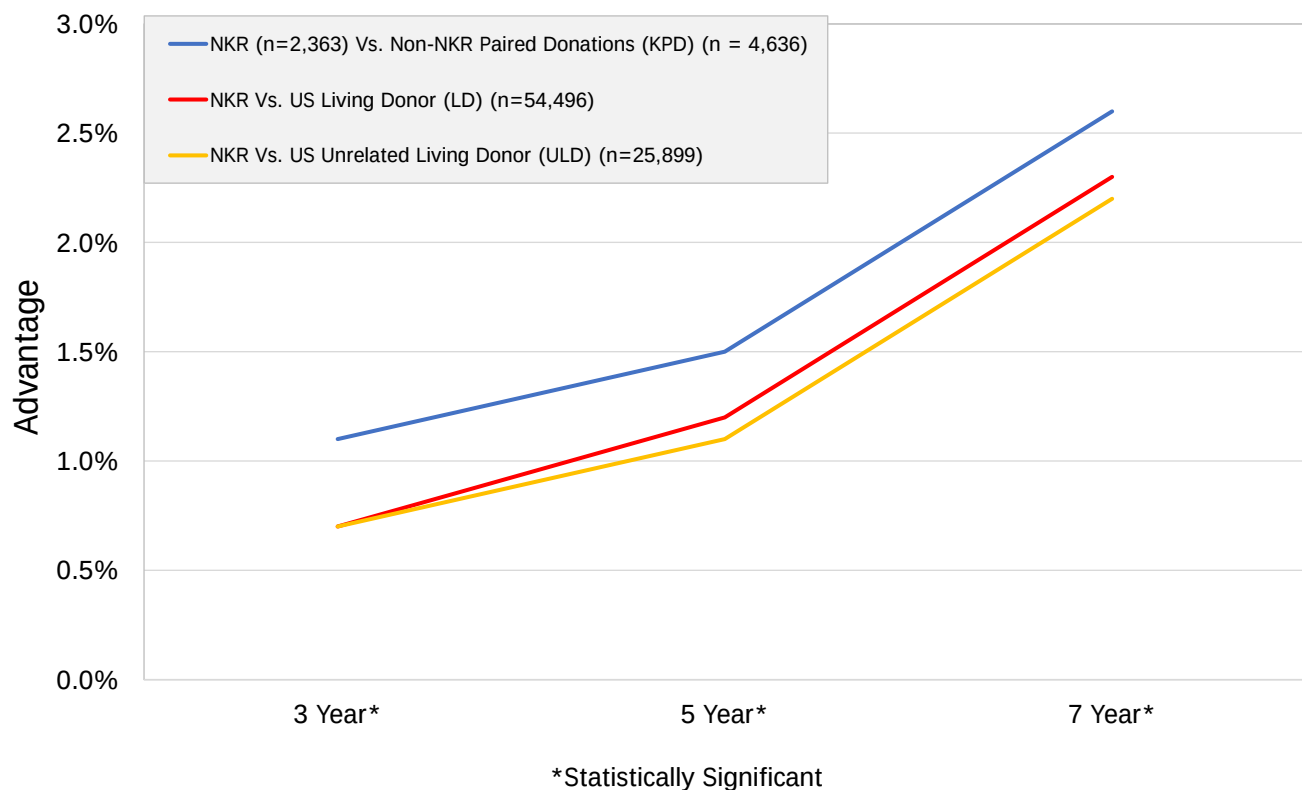
Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including CHIP patients;
Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 12/31/2017 <https://www.srtr.org/> SRTR data as of June, 2018

31% Lower Patient Mortality Rate



Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including CHIP patients;
Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 12/31/2017 <https://www.srtr.org/> SRTR data as of June, 2018

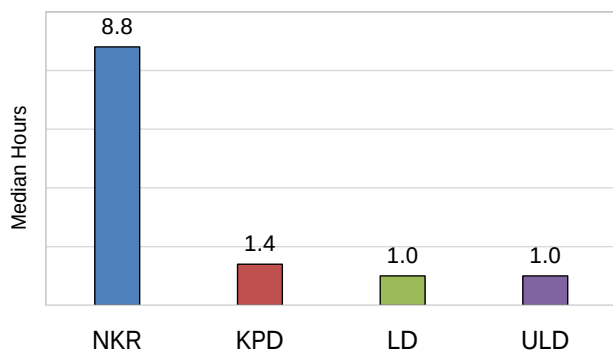
NKR Patient Mortality Rate Advantage Increasing Over Time



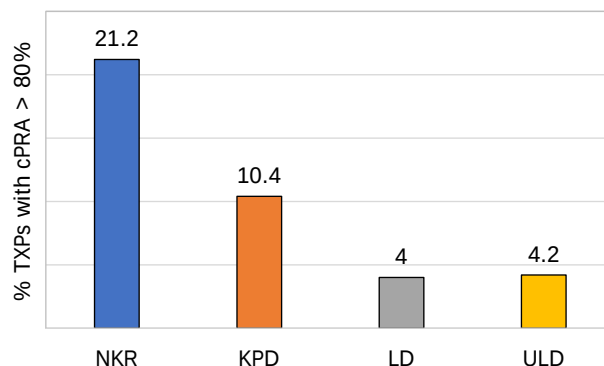
Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including CHIP patients;
Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 12/31/2017 <https://www.srtr.org/> SRTR data as of June, 2018

NKR is Achieving Superior Outcomes While Transplanting Tougher Cases

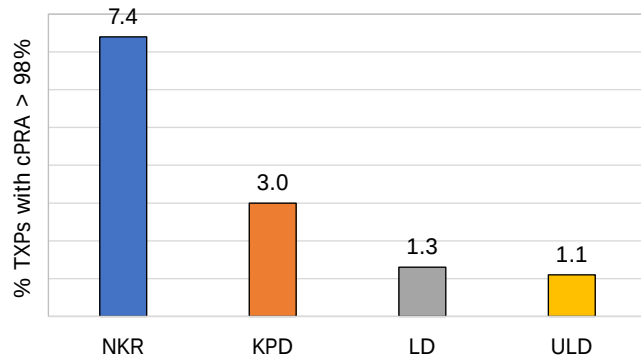
More Cold Ischemic Time



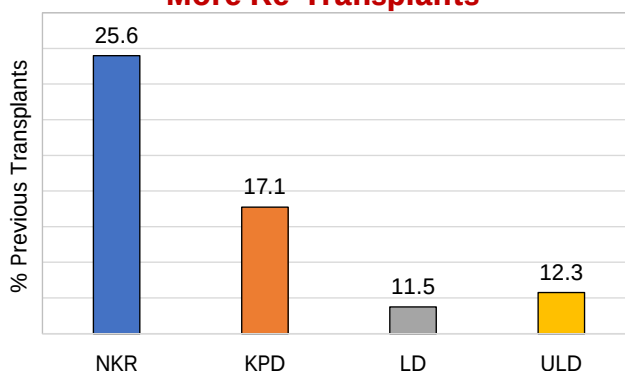
More Highly Sensitized Patients



More Hyper Sensitized Patients

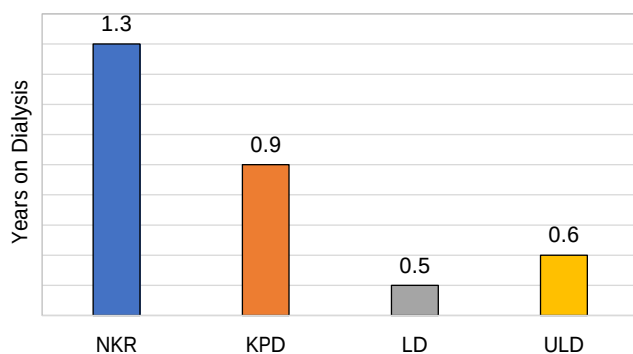


More Re-Transplants

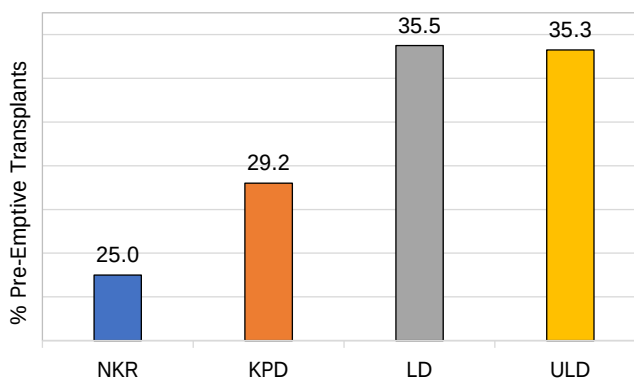


Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including CHIP patients;
Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 12/31/2017 <https://www.srtr.org/> SRTR data as of June, 2018

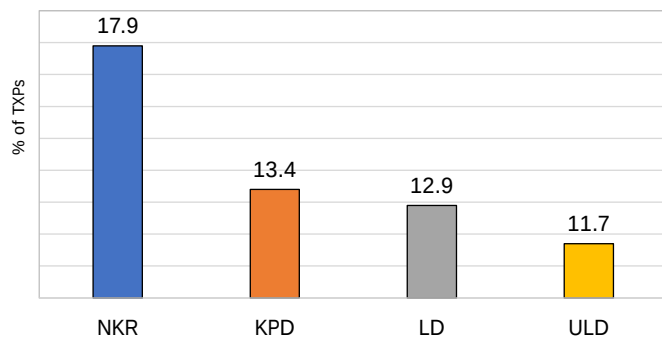
More Time on Dialysis



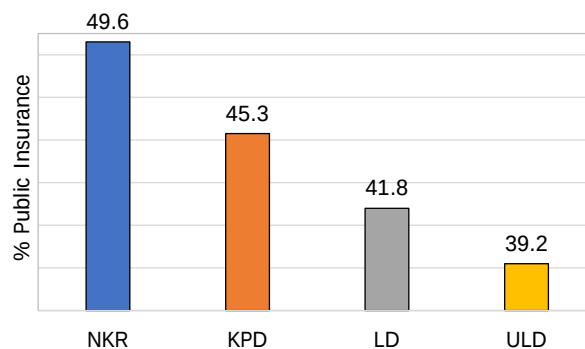
Fewer Pre-Emptive Transplants



More African American Patients

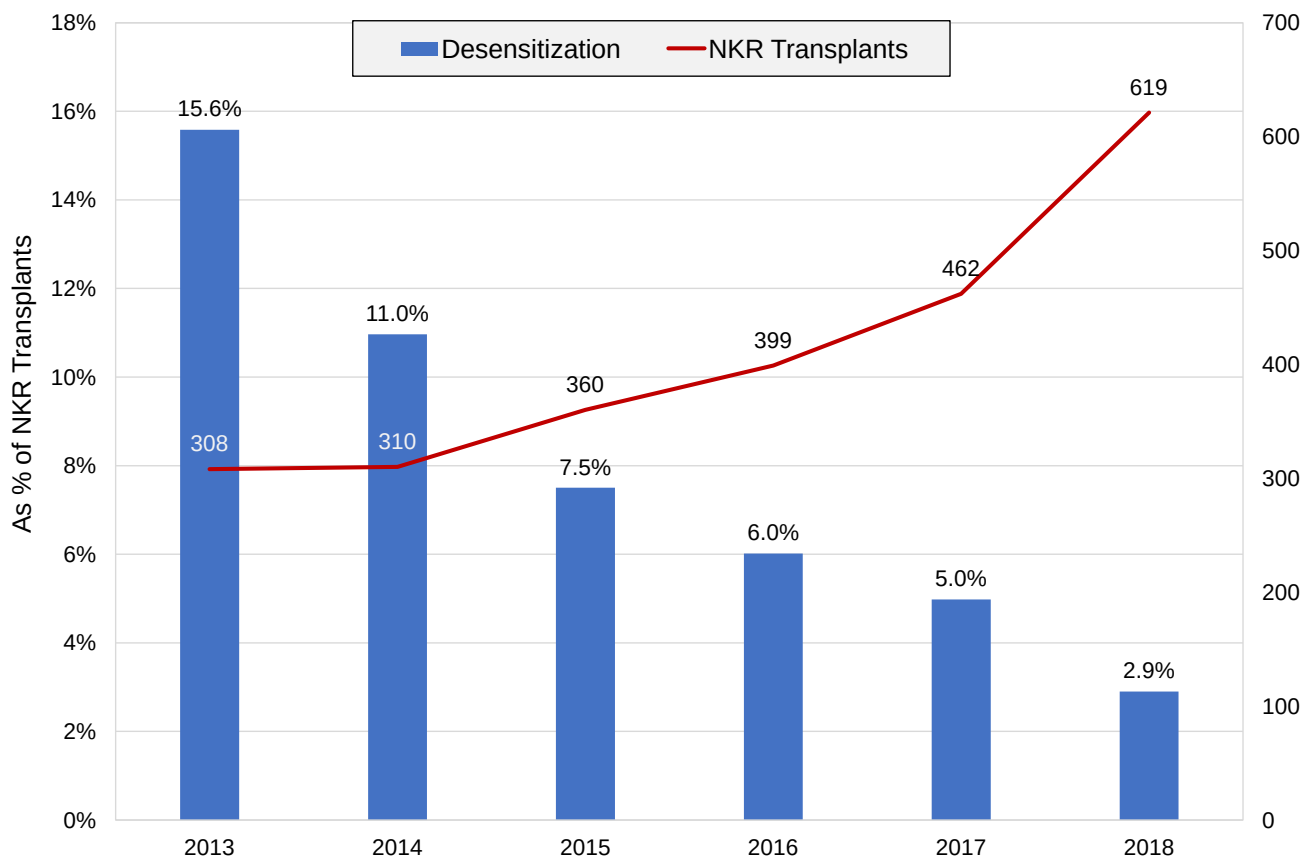


More Patients with Public Insurance



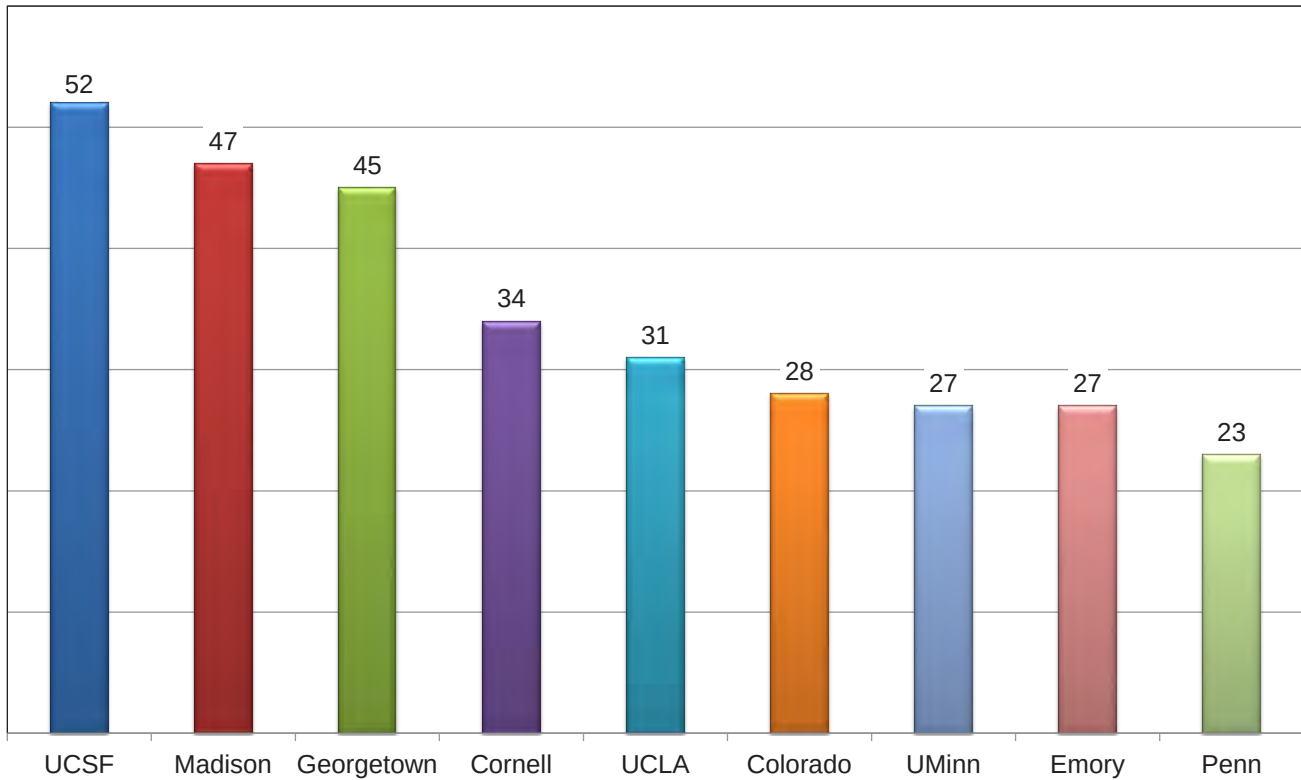
Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including CHIP patients;
Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 12/31/2017 <https://www.srtr.org/> SRTR data as of June, 2018

Desensitization is Trending Down



Top Centers

Transplants Last 12 Months



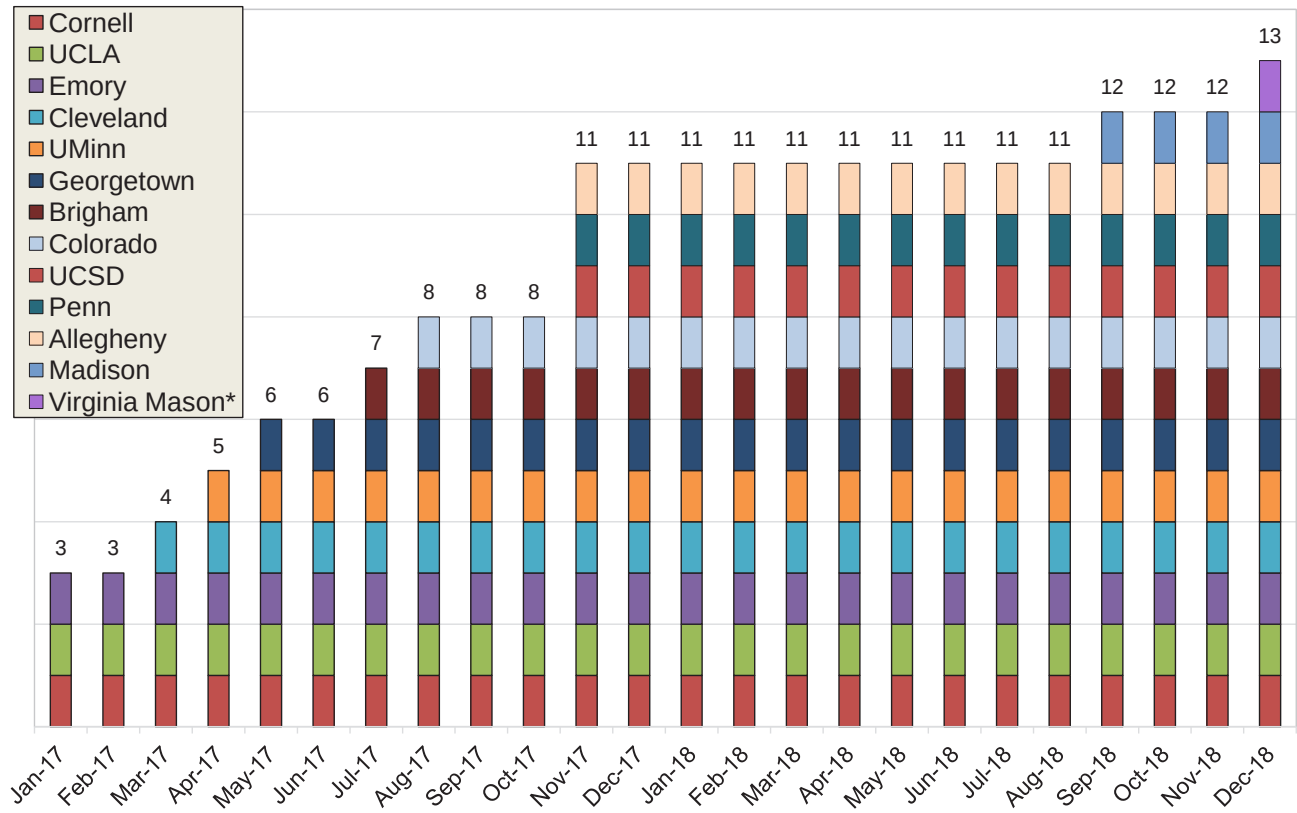
*As of 12/31/18

NKR Member Centers

As of 12/31/2018

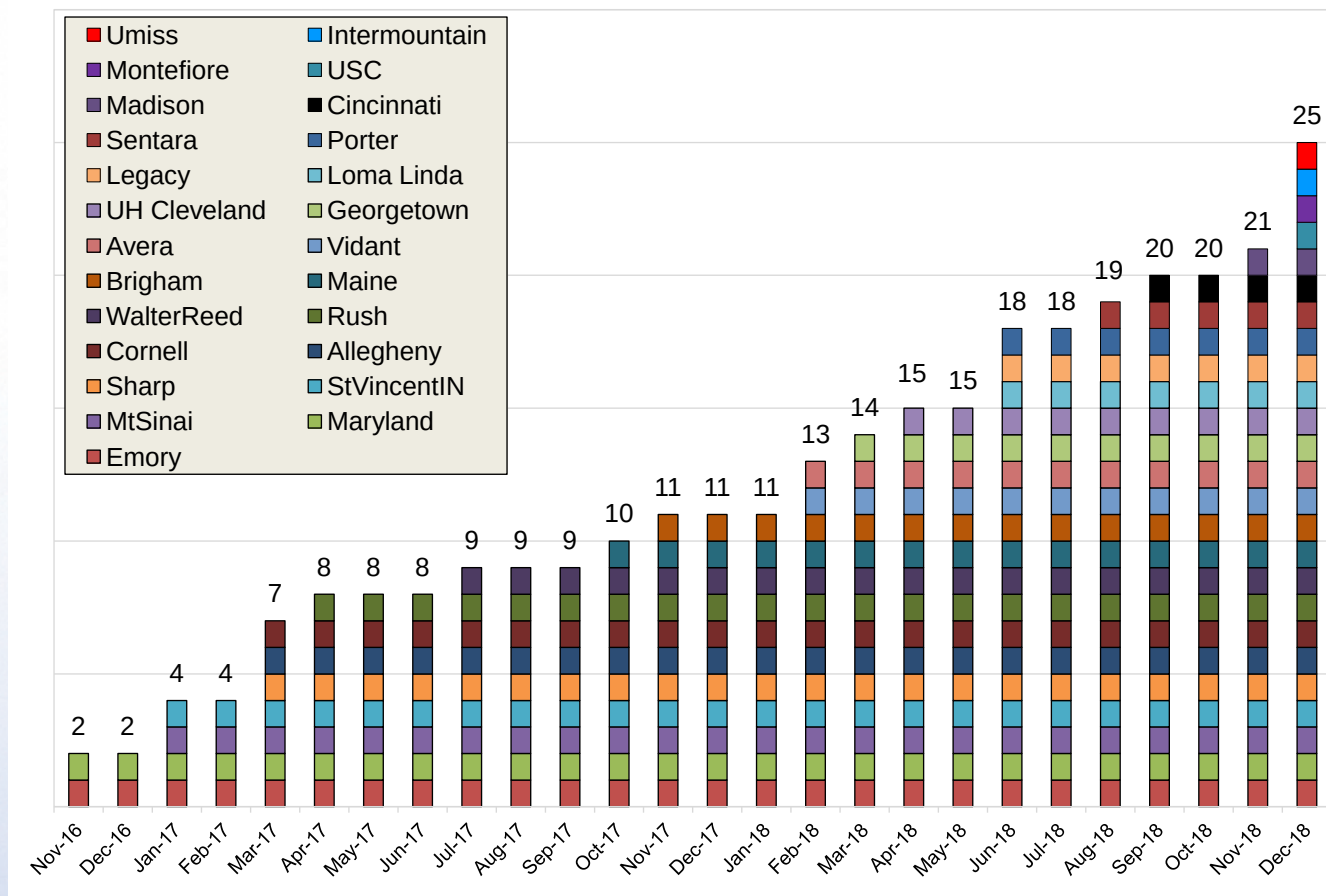


Donor Care Network® Centers of Excellence

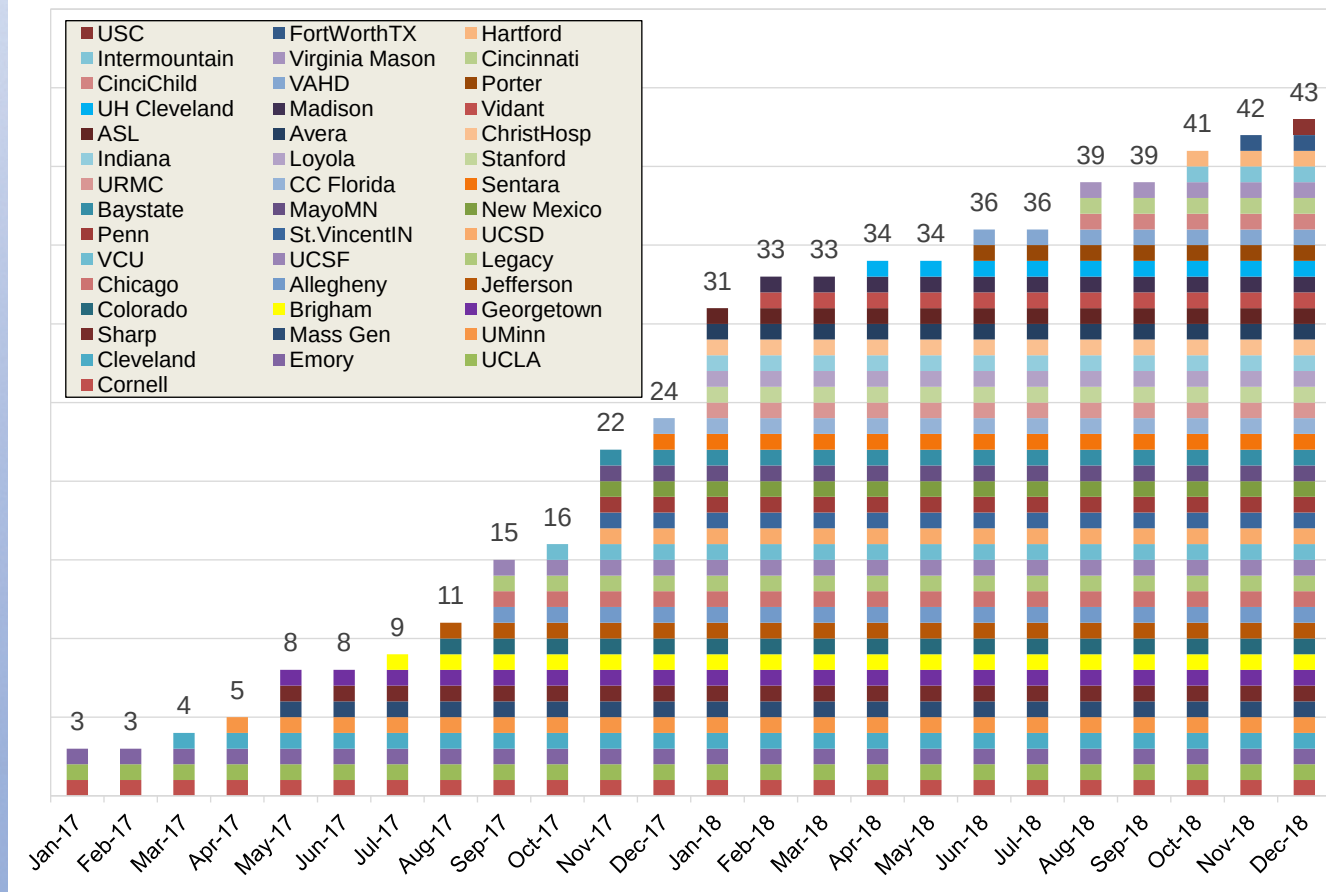


*Virginia Mason joined January 2019

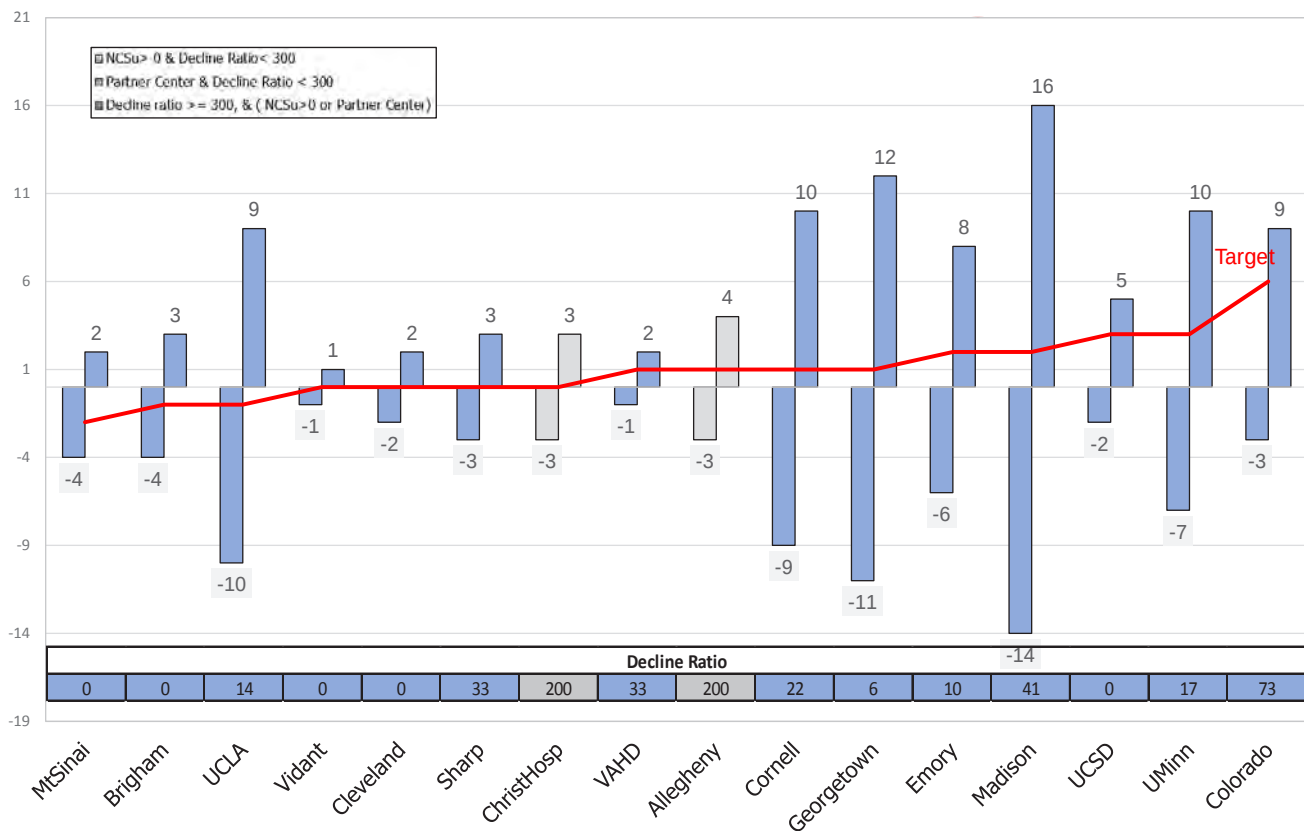
Private Label DASH Installations



Remote Donor Centers



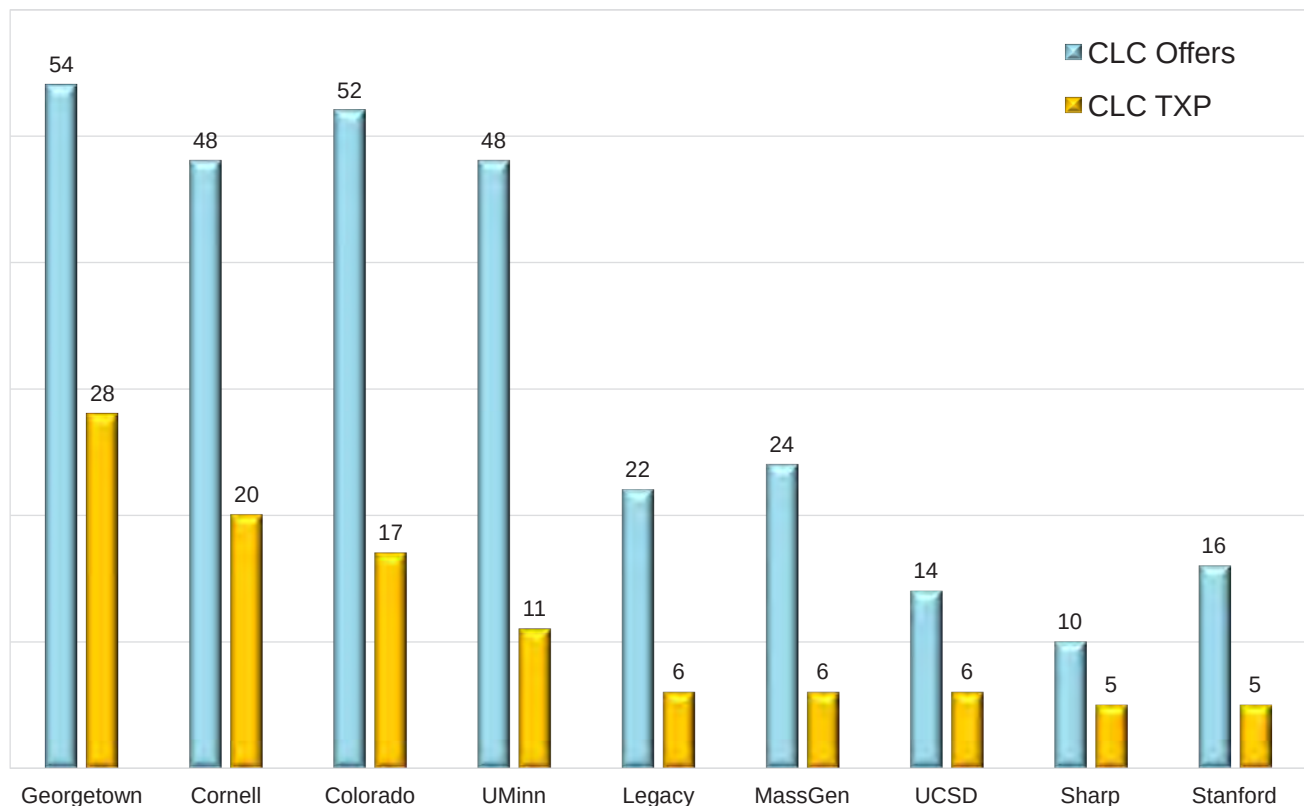
Partner Center Chain End Targets



* <https://clc.kidneyregistry.org/WebForm1.aspx?ReportKeyPass=ag5Ghnf76Tghd765GFire&NcsSummary=1&Sort=DefaultSort&Supress=1> Accessed 1/22/19 at 9:49 ET

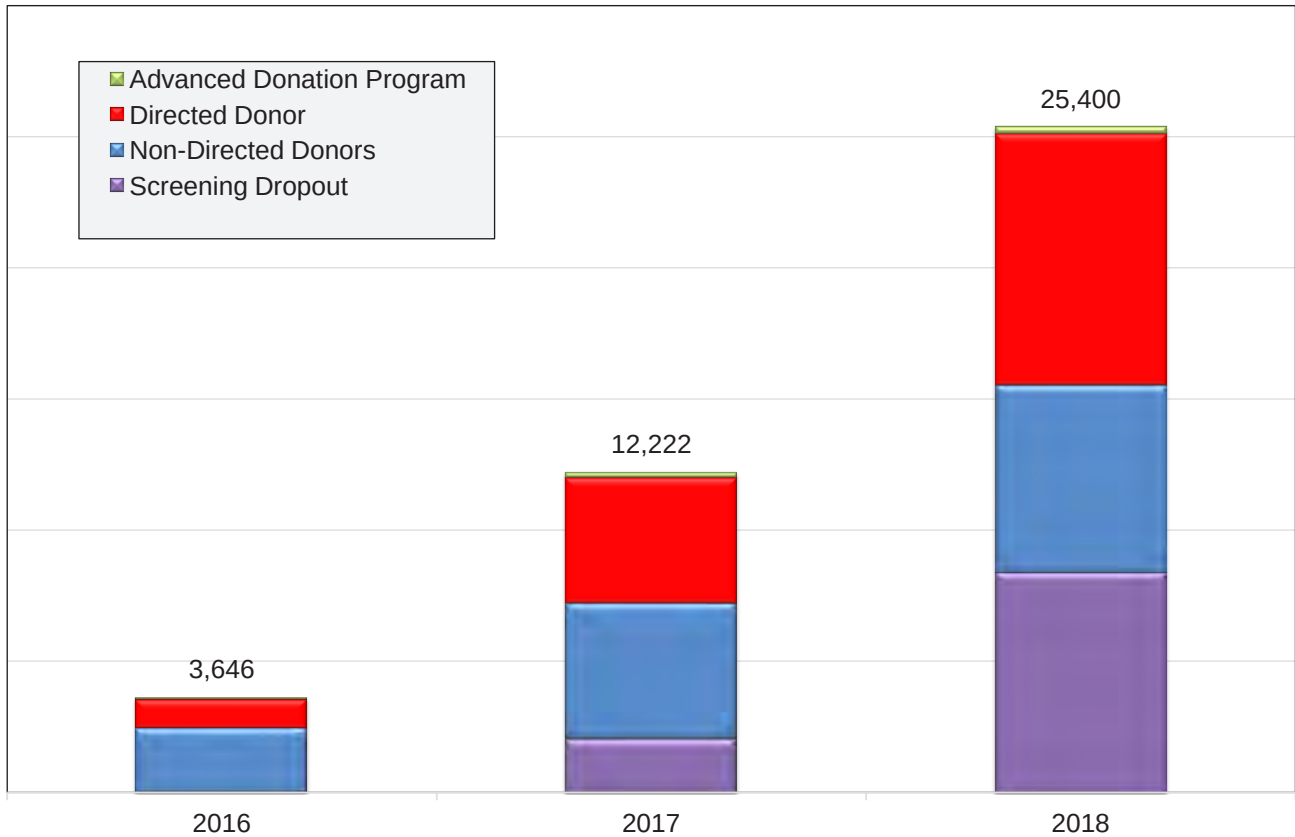
Top Center Liquidity Contributors

CLC Driven Match Offers - 12/17 - 12/18



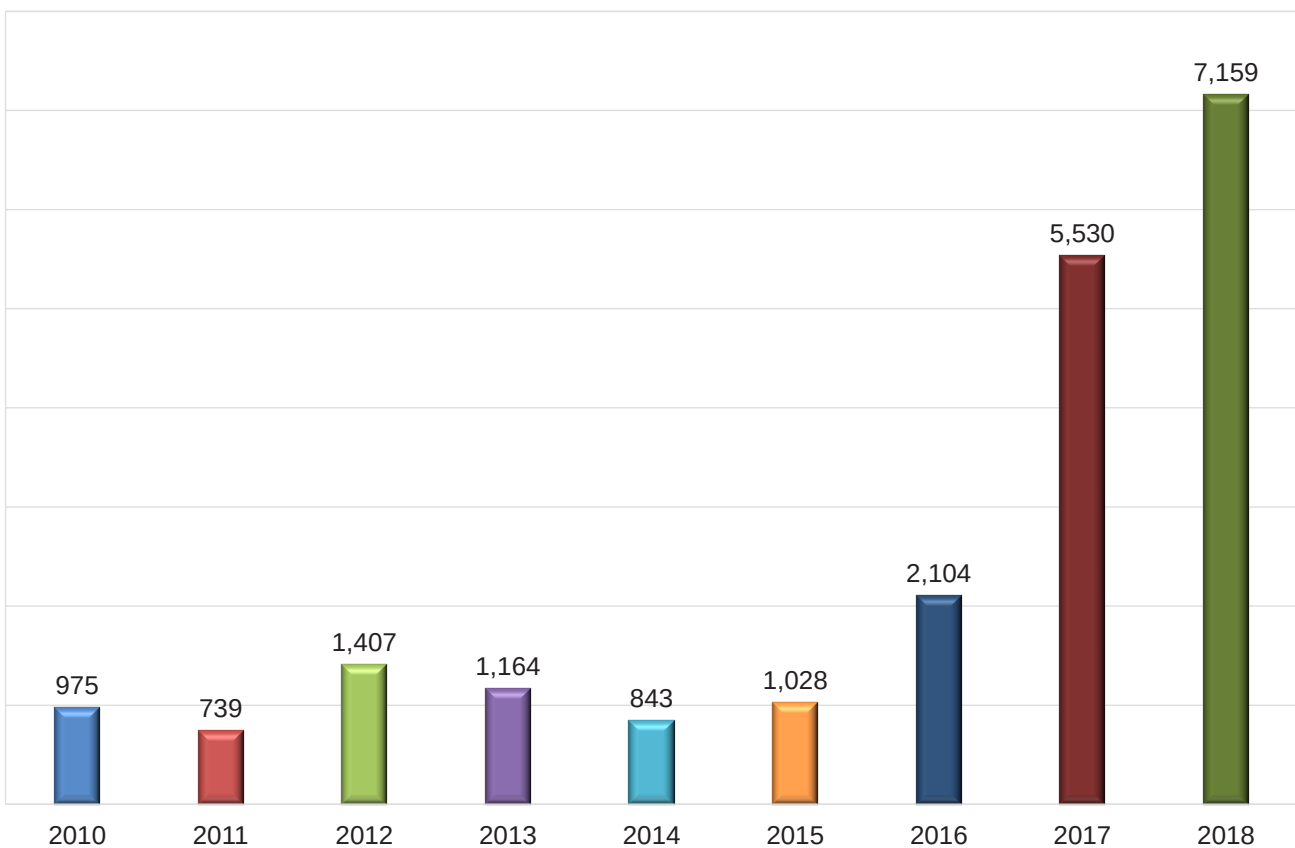
Donor Contacts

Across All Donor Intake Platforms



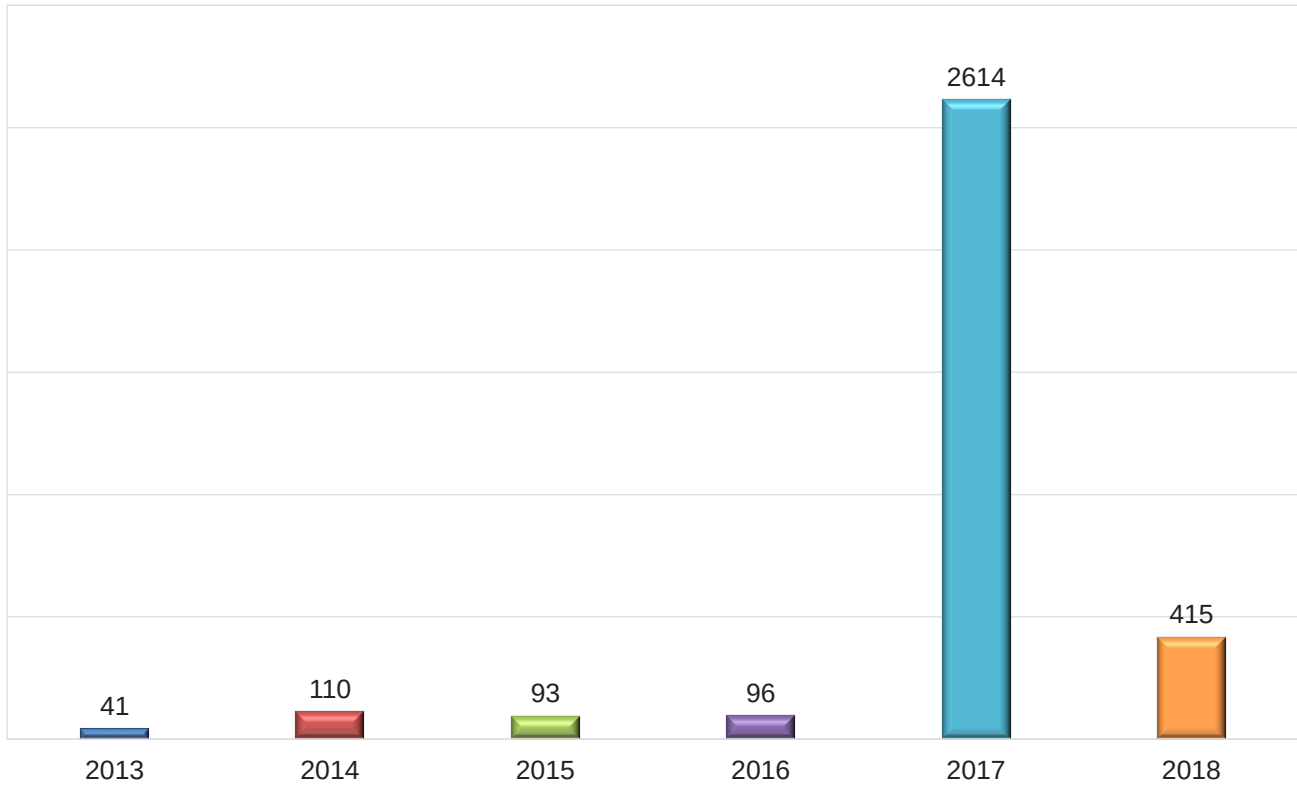
Non-Directed Donor Contacts

Via NKR DASH



Non-Directed Donor Referrals

Referred to NKR Member Centers

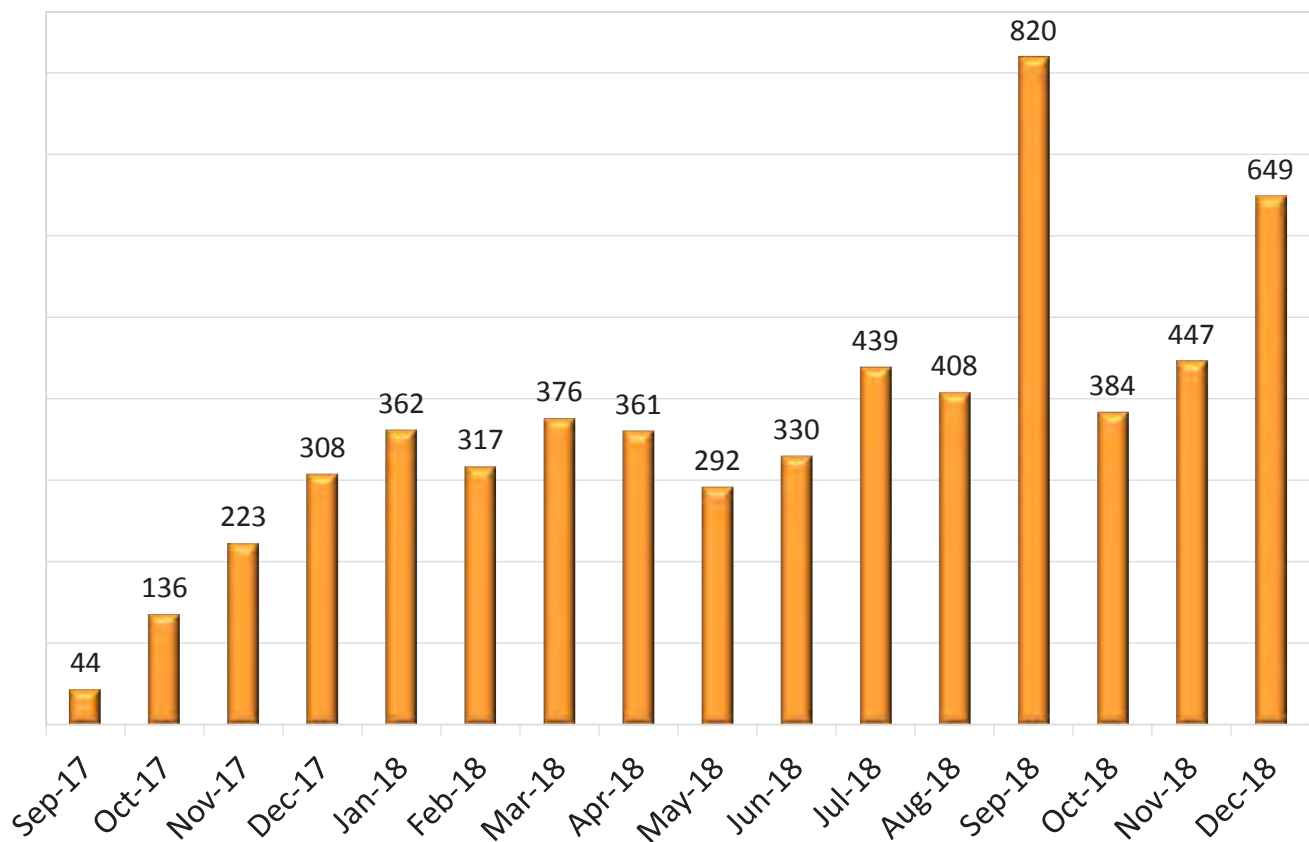


*2017: Donor intake system was re-engineered and the donor certification form was removed

*2018: Pre-workup labs were implemented which screened out candidates not willing to complete 24 hour urine test

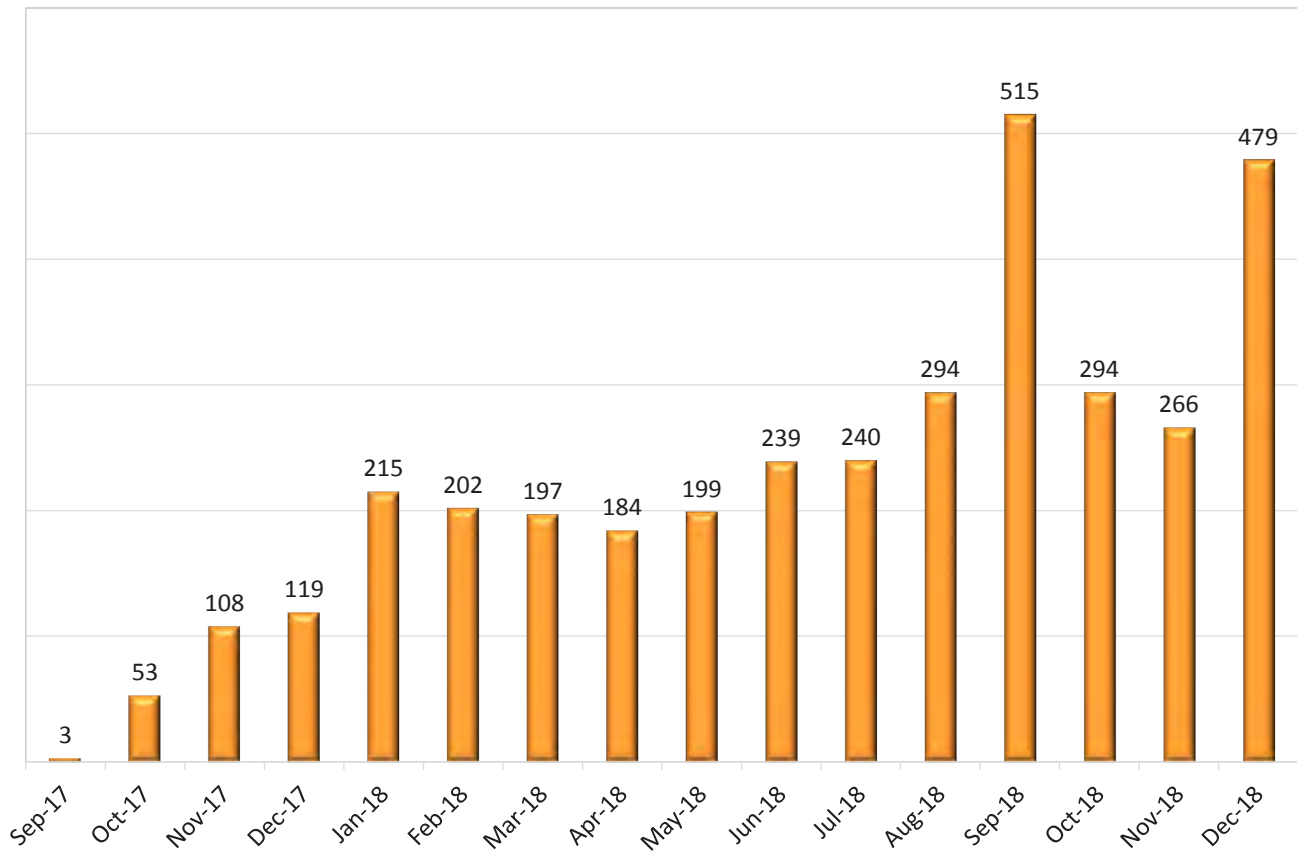
Pre-Workup Labs

24-Hour Urine Jugs Shipped



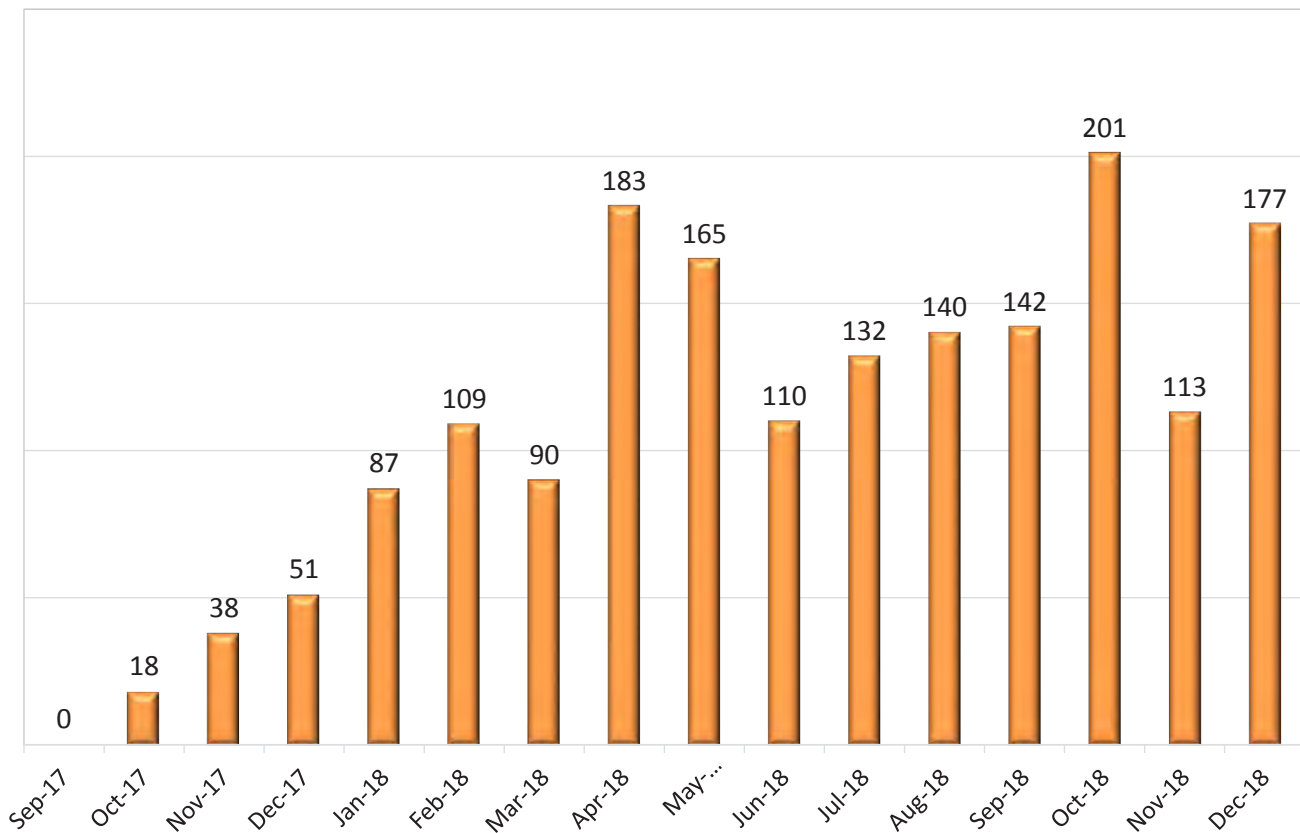
Pre-Workup Labs

Scripts Uploaded



Pre-Workup Labs

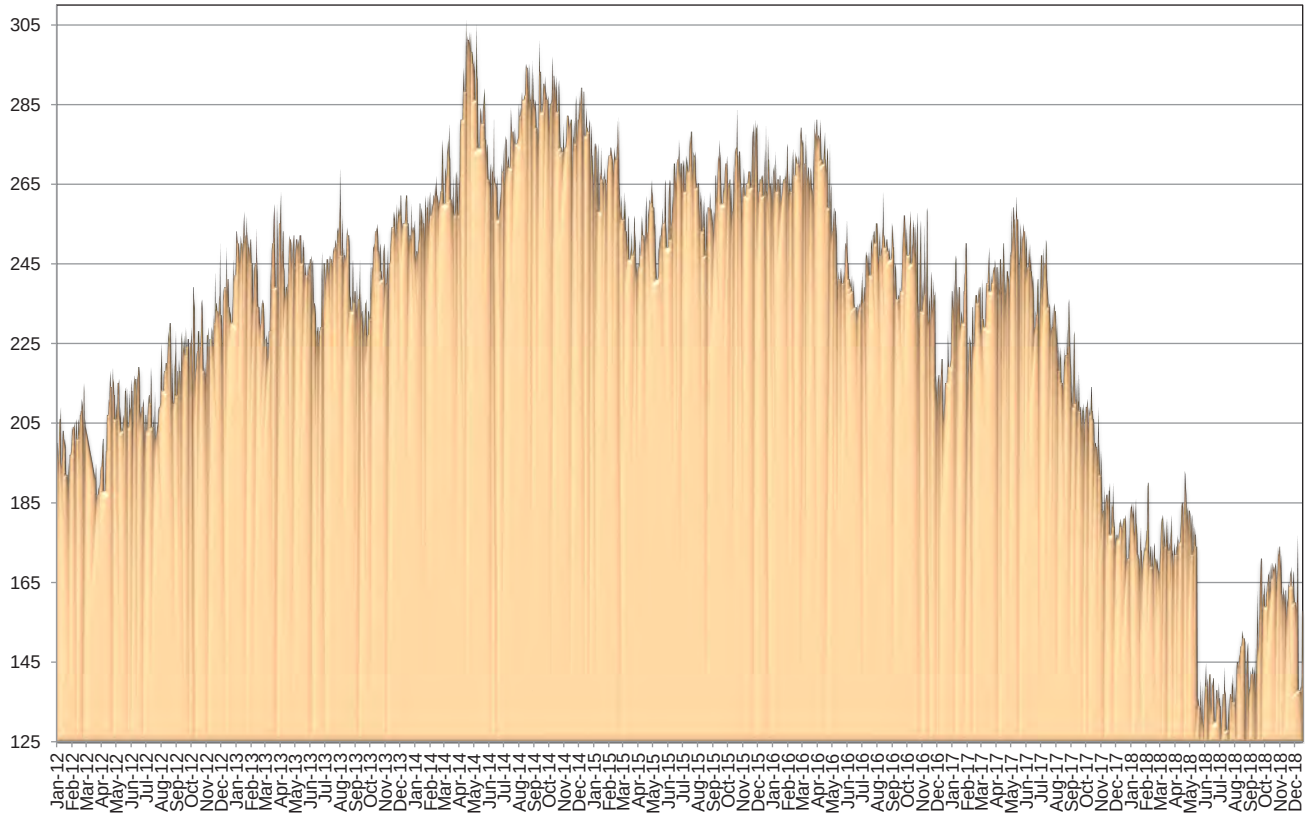
Results Uploaded



Pool Size

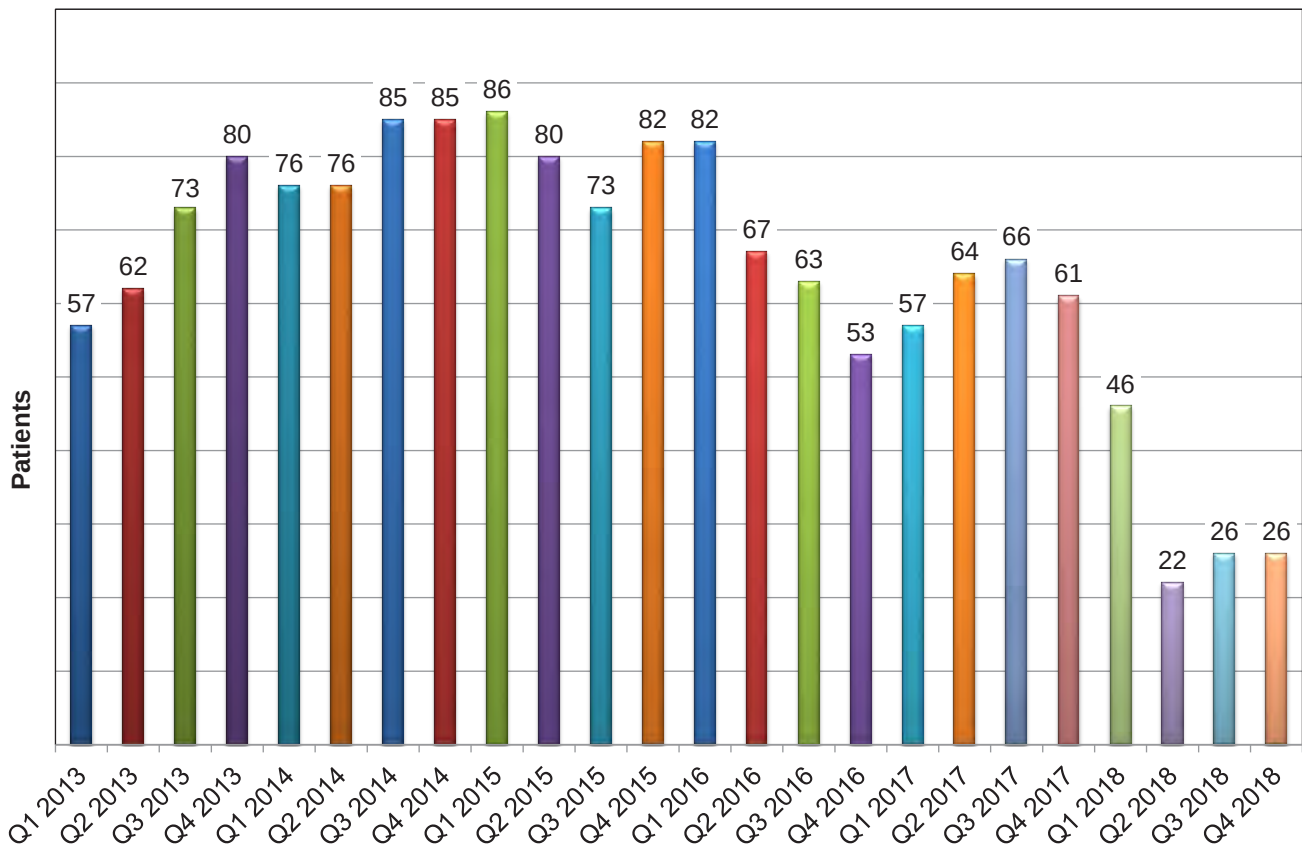
Unmatched Patients by Day

1/14/2012 – 12/31/2018



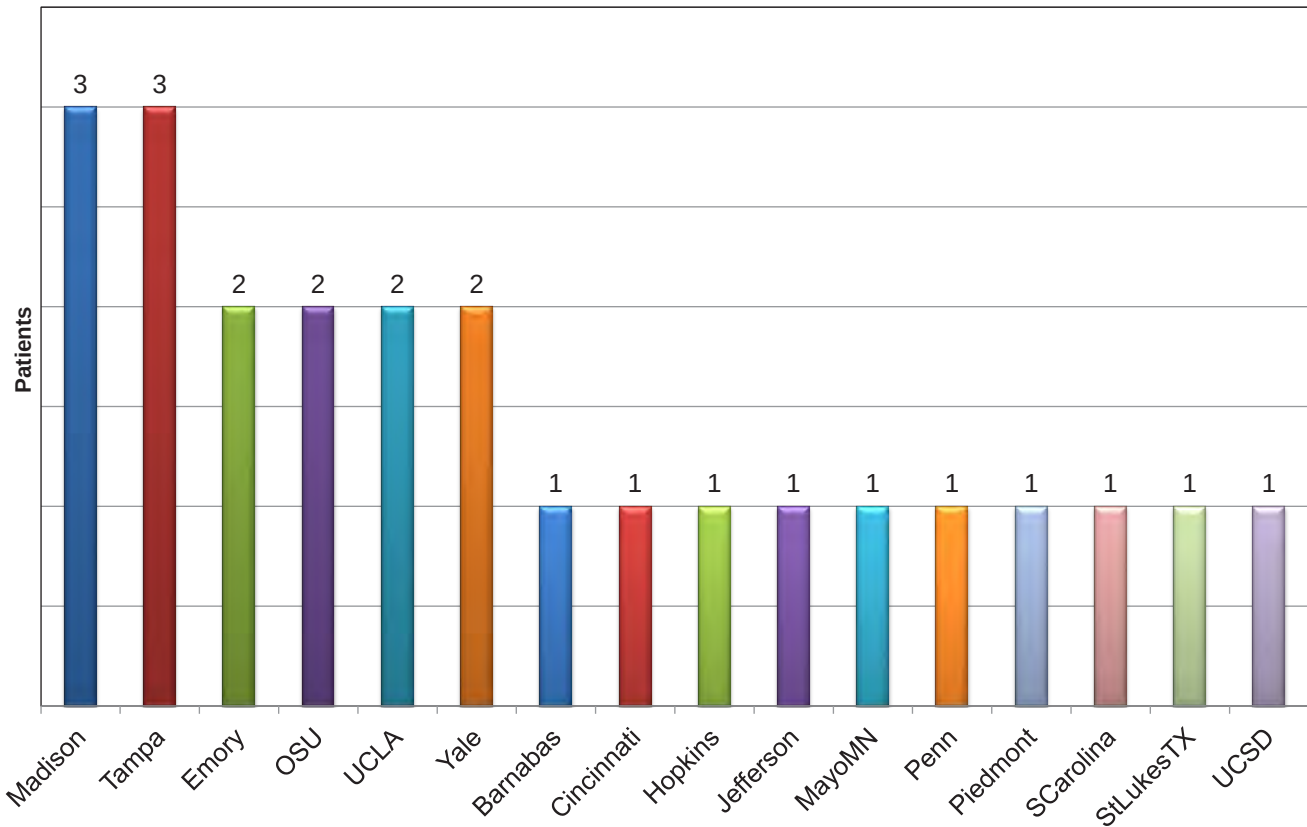
Patients Waiting > 1 Year by Quarter

As of 12/31/2018



Patients Waiting > 1 Year by Center

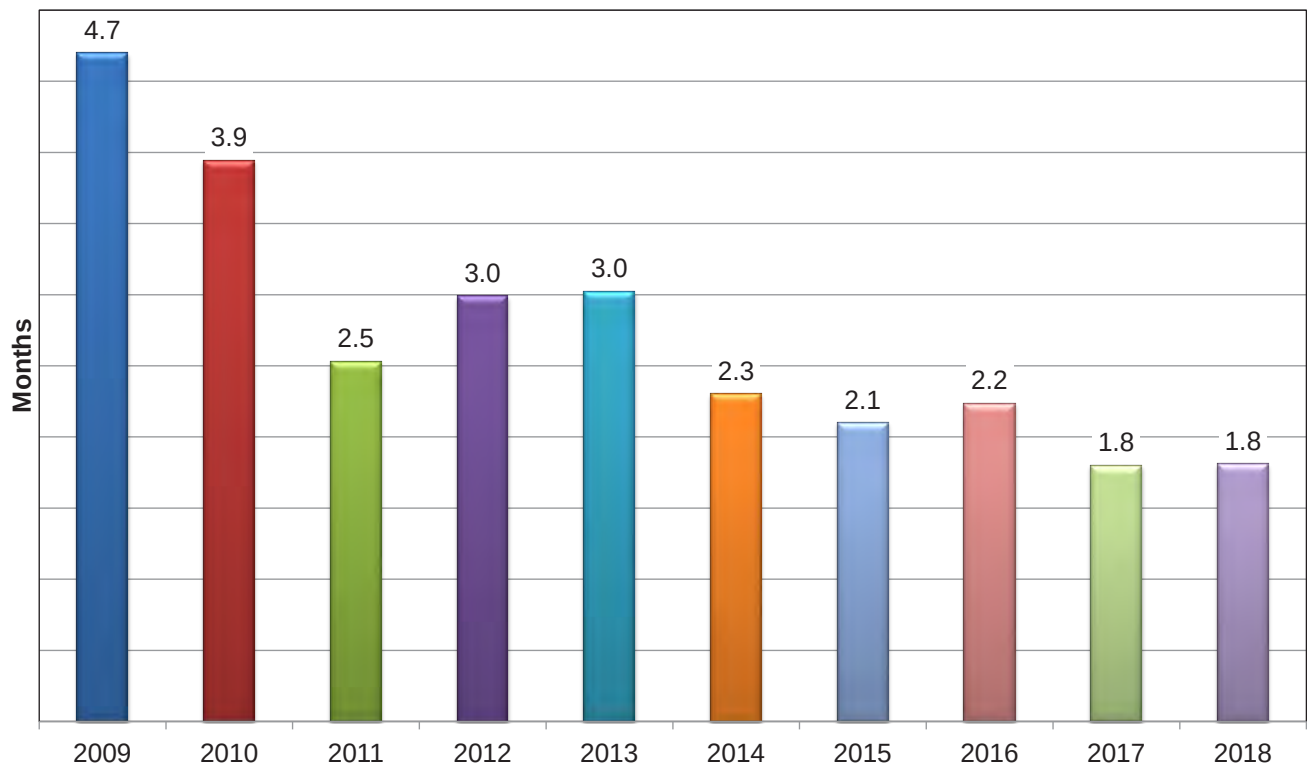
As of 12/31/2018



Transplanted Patient Median Wait Time

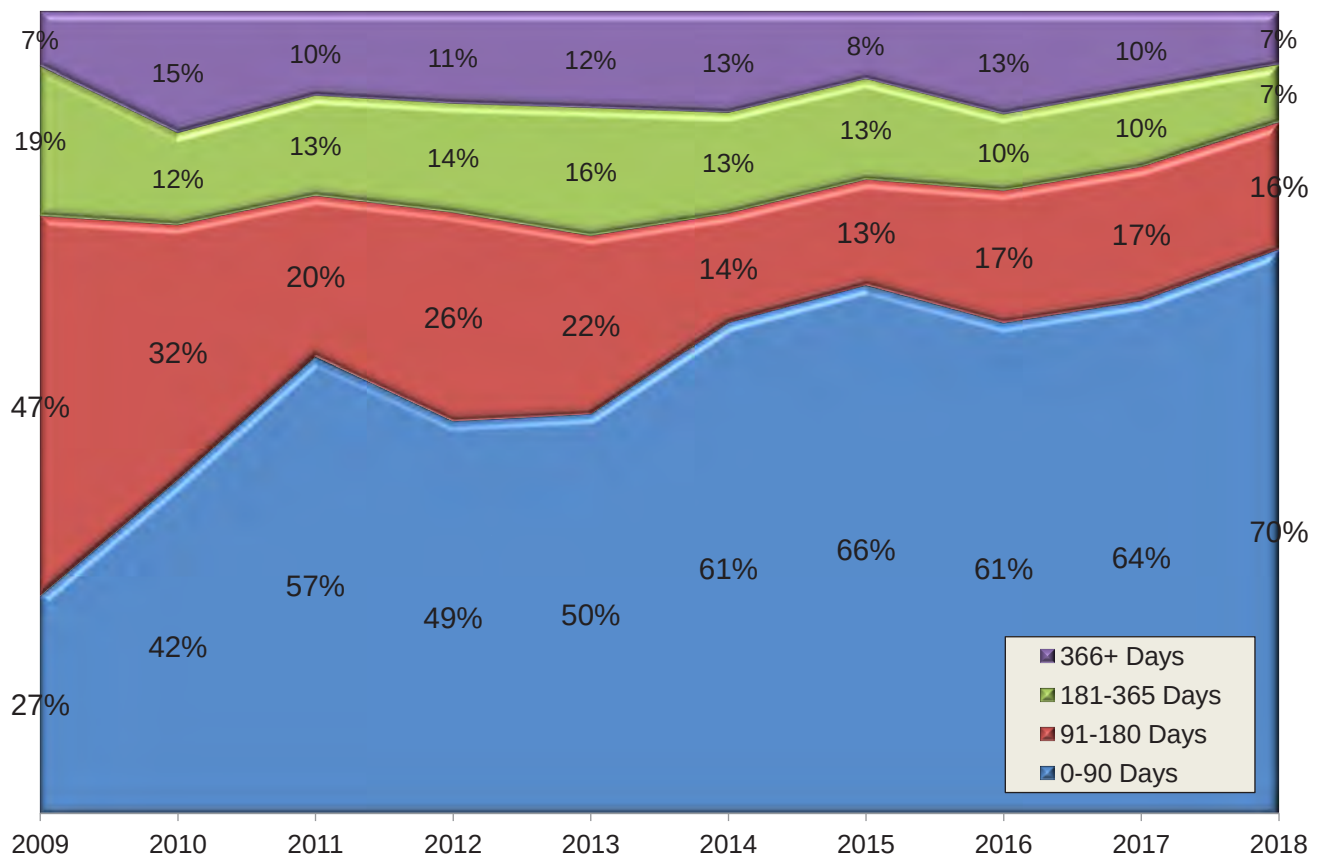
Wait times of patients transplanted during prior 12 months

As of 12/31/2018

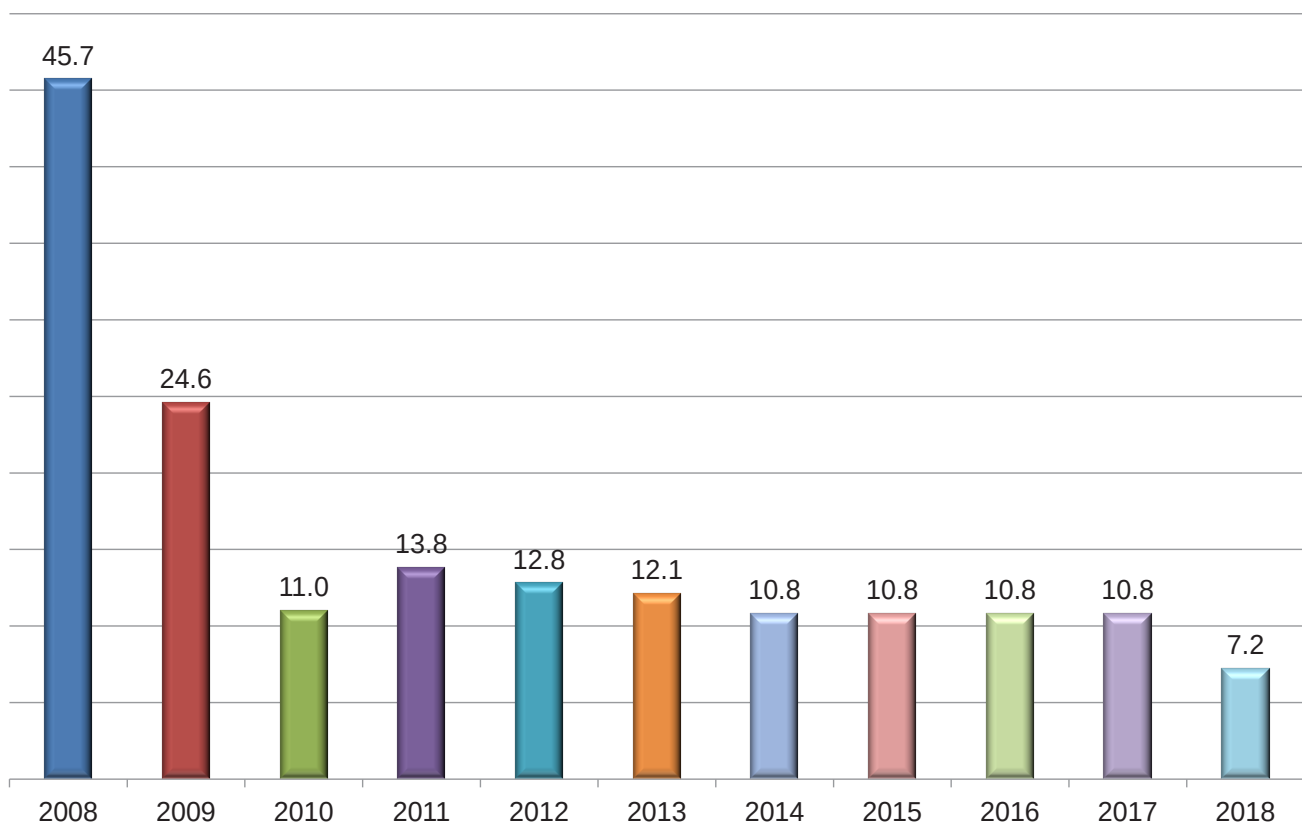


Wait Time Distribution

Transplanted Pairs

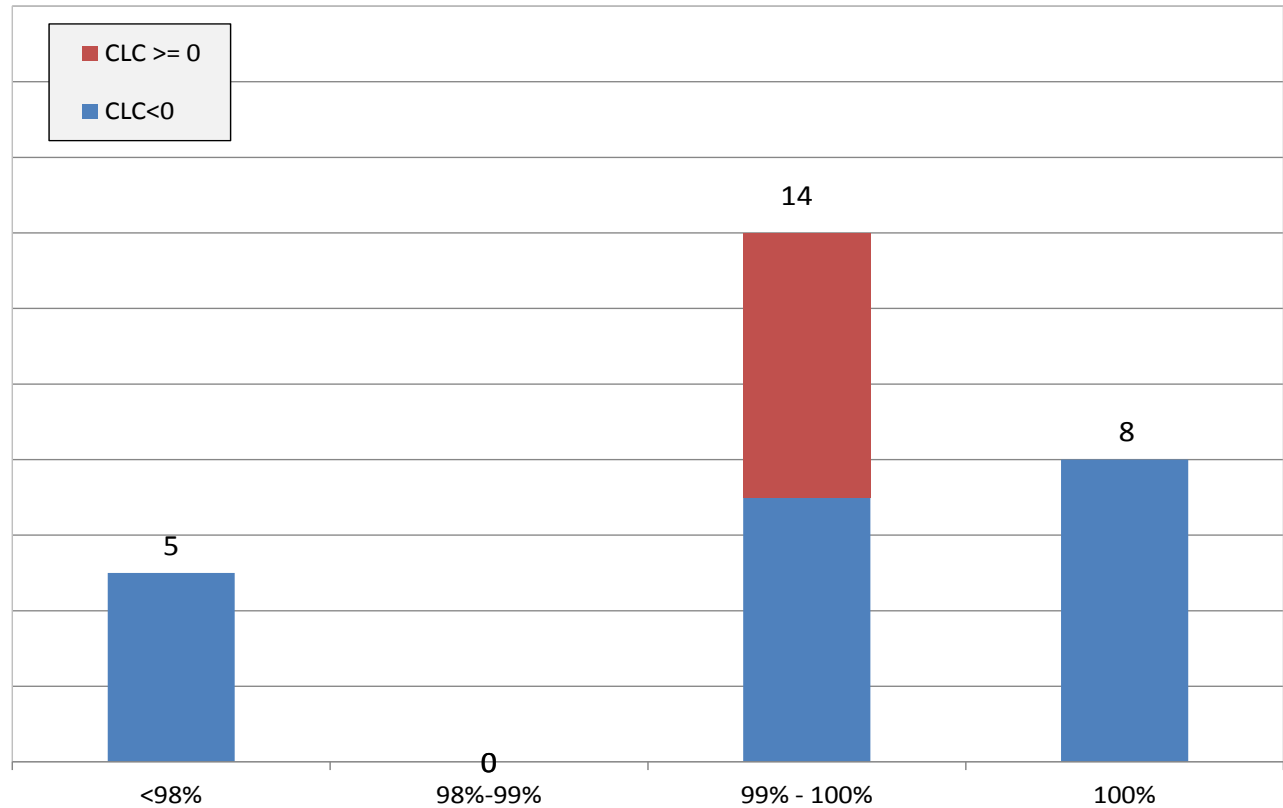


Unmatched Patient Mean Wait Time (months)



Unmatched Target Pairs

Waiting more than 12 Months



*As of 1/22/18, 11:11pm

Pairs Waiting > 1 Year

Due to Unfavorable Blood Type Combination

#	R Alias	R ABO	D ABO	MHP	cPRA4	R Age	D Age	PMPc	Wait (Months)	CLCu
1	R393130	O	A1	0	0.00	36	65	50	20	-5880
2	EVADEB	O	A2	0	57.60	65	62	67	18	-6070
3	JTCH817	O	B	0	0.00	49	59	138	14	-2460
4	ELLIXJO	O	A1	25	22.21	55	55	46	13	-8630

*As of 1/30/19, excludes patients matched since close of fourth quarter

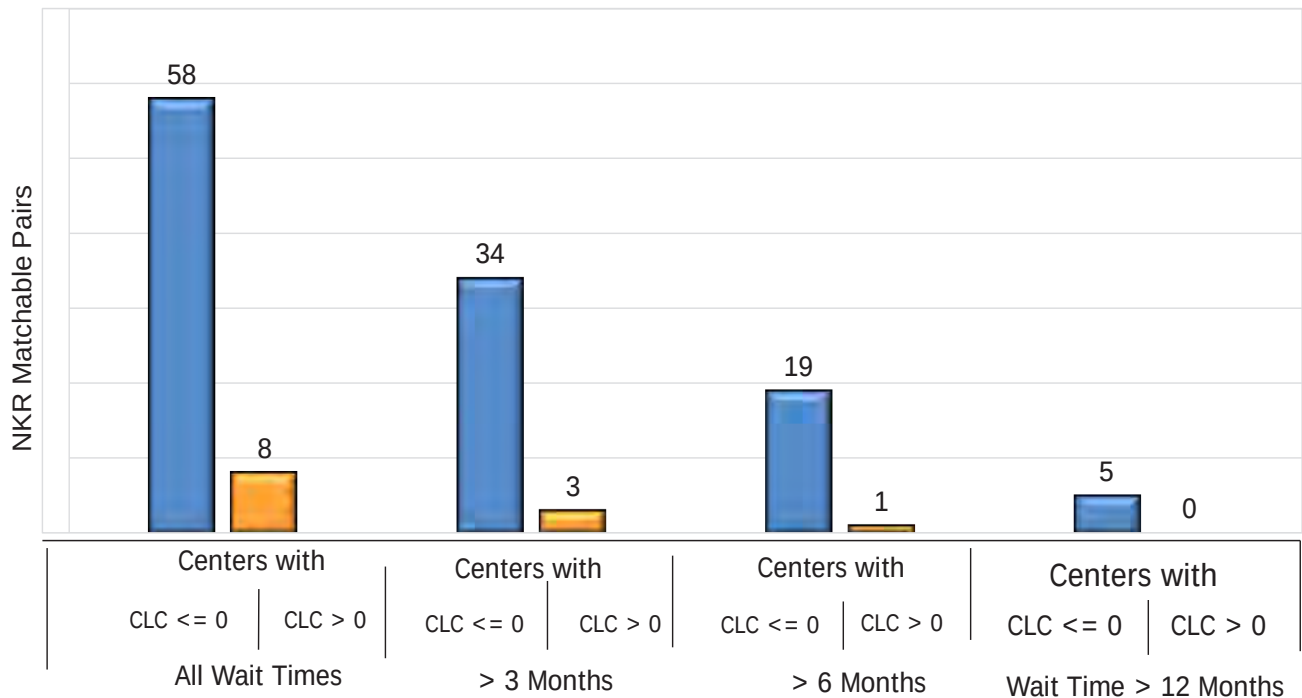
Pairs Waiting > 1 Year

Due to High cPRA

#	R Alias	R ABO	D ABO	MHP	cPRA4	R Age	D Age	PMPc	Wait (Months)
1	MAB1402991	AB	O	0	100.00	15	51	0	64
2	R3148	A	A2B	0	100.00	40	35	0	34
3	SCHNALRE	O	O	0	100.00	55	55	0	25
4	DEKEDRE	O	O	0	100.00	48	36	0	23
5	SS4105110	A	A1	0	100.00	55	49	0	22
6	STESCA	B	B	6	100.00	45	42	0	20
7	H903961717	O*	O A1	0	100.00	23	24 53	0	13
8	TC400574	O	O	0	100.00	60	49	0	13
9	TP0728	O	B	0	99.98	54	53	0	15
10	LANDBRE	O	O	0	99.98	30	55	0	14
11	R203DV	O	O	0	99.98	50	49	0	13
12	UC06142609	O	O	0	99.95	67	50	0	28
13	CR02221971	O	A1	0	99.91	47	46	0	16
15	JAJO7378	B	O A1 O	0	99.86	40	48 38 37	0	65
14	LCL2183933	O	O O	0	99.77	24	35 58	0	26
16	AD0043	O	O	0	99.73	51	54	0	46
17	MISNEH3211	O	B	0	99.73	59	37	0	14
18	WDUR980	A	A2B	0	99.39	49	56	0	21
19	GISA510195	B	O	0	99.37	62	58	0	20

As of 1/30/19, excludes patients matched since close of fourth quarter

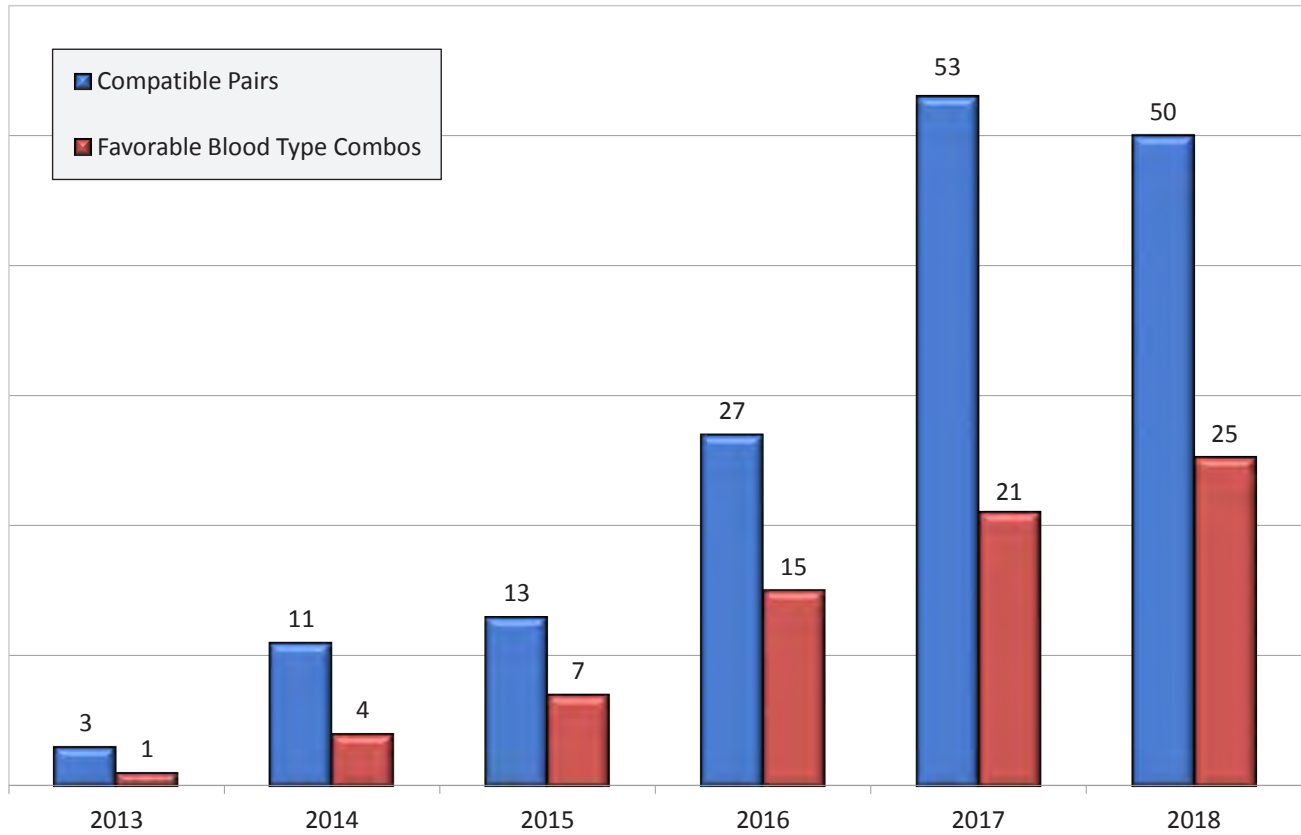
Pair Wait Time Analysis



* Data as of 1/22, 11:11pm

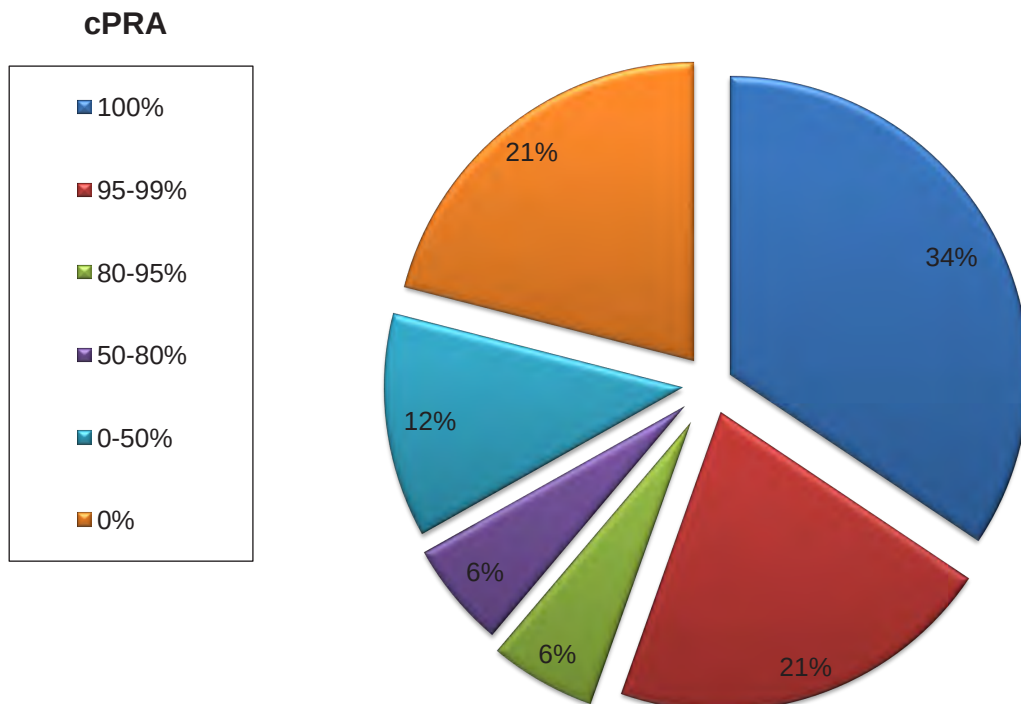
Compatible Pairs Transplanted

As of 12/31/18

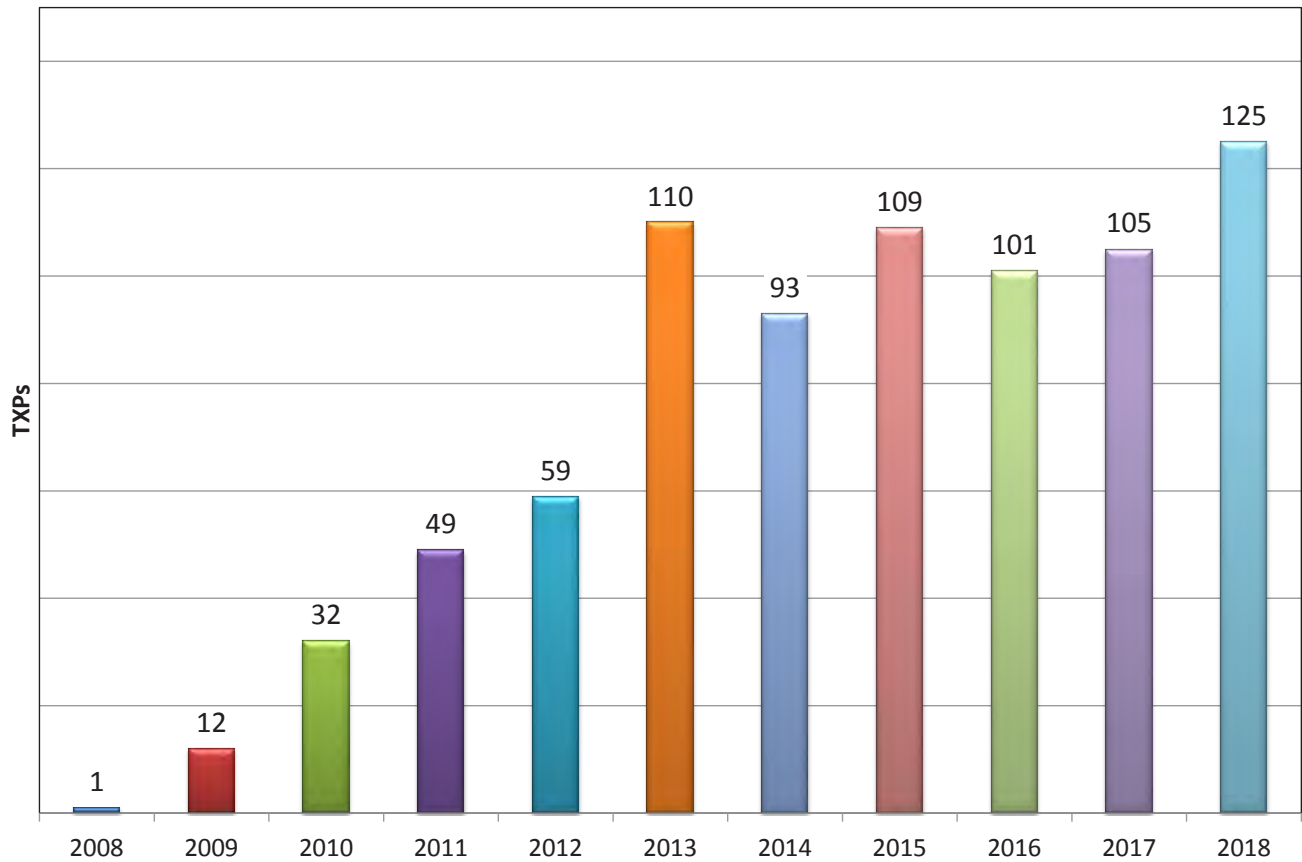


Pool Composition by cPRA

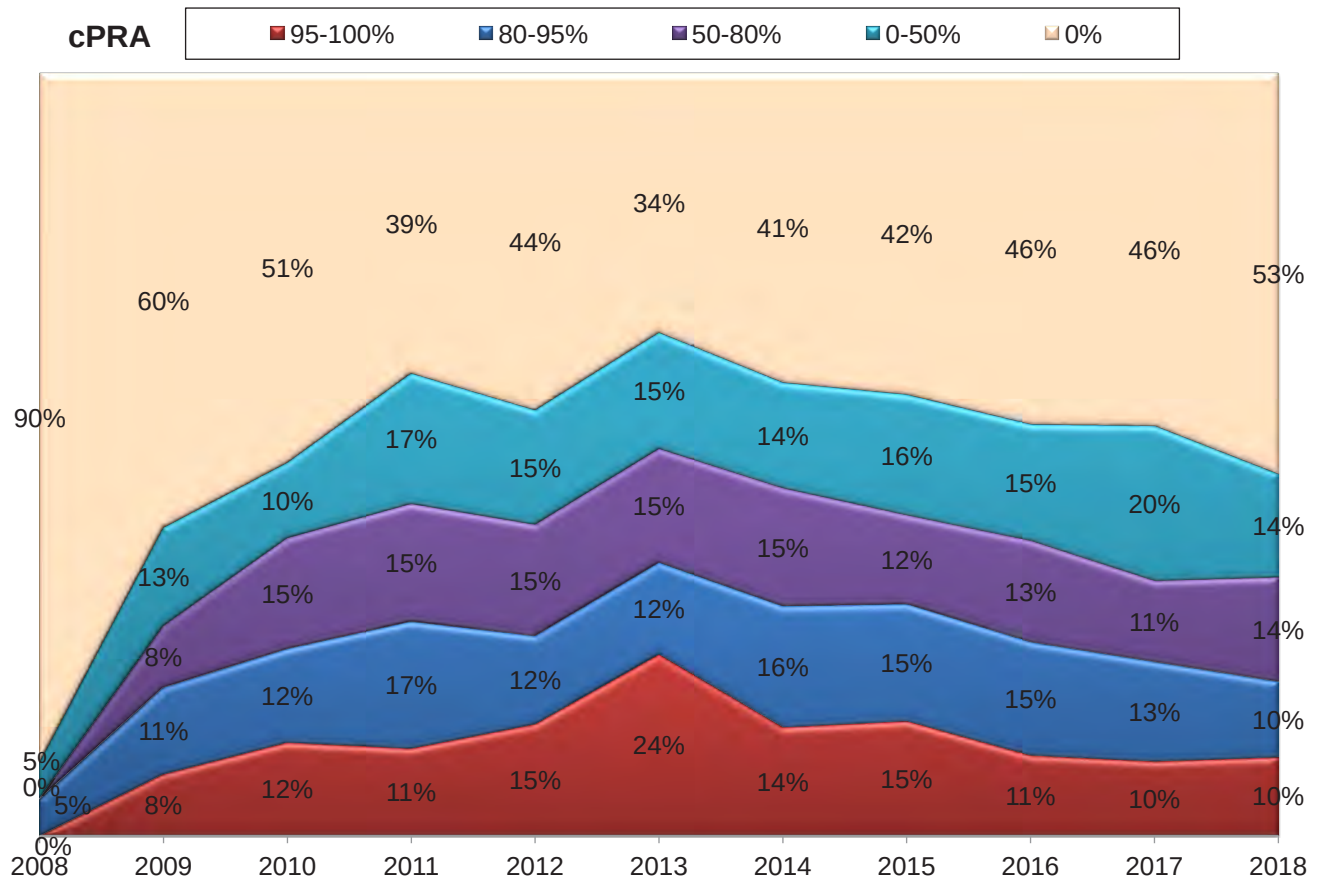
As of 12/31/18



Transplanted Patients with cPRA > 80%



Transplanted Patients by cPRA

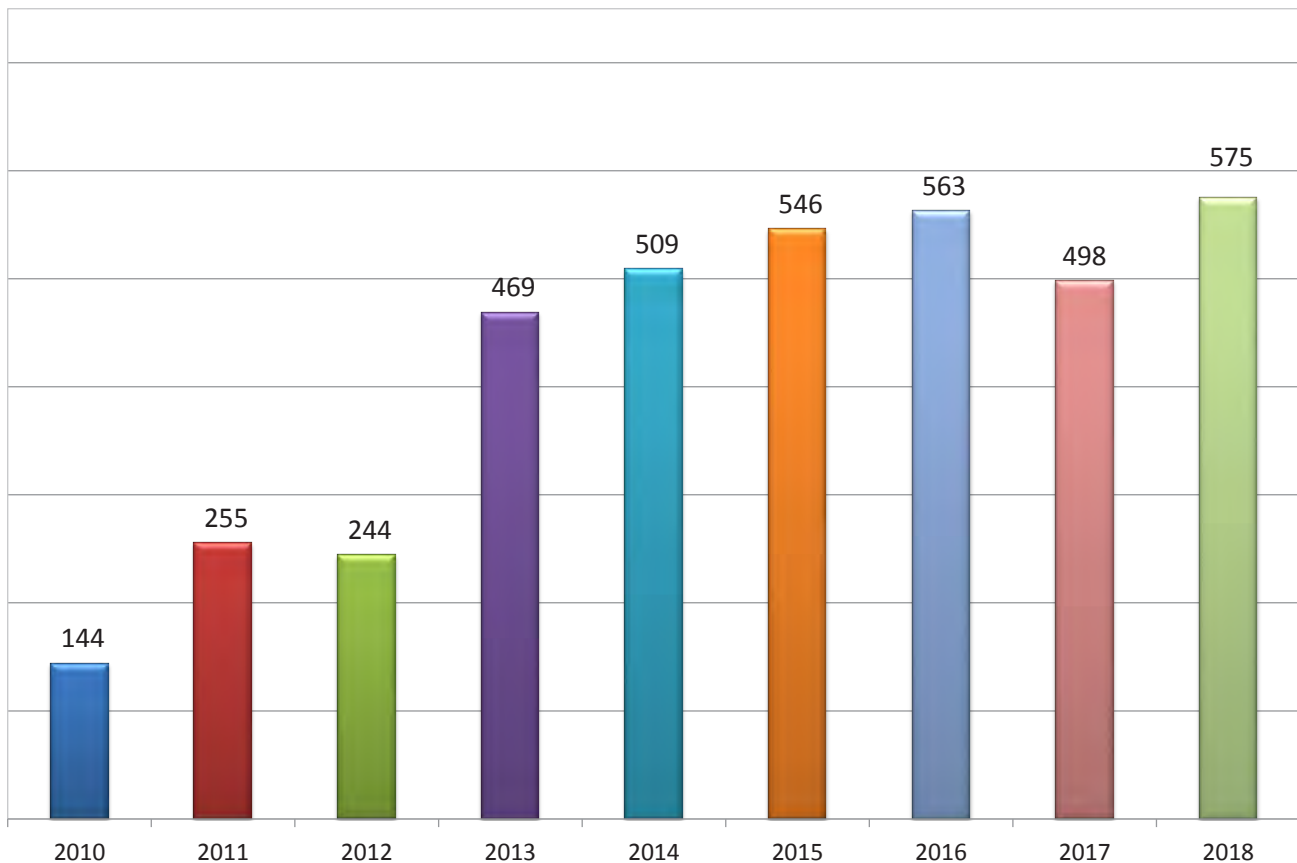


Great HLA Matches

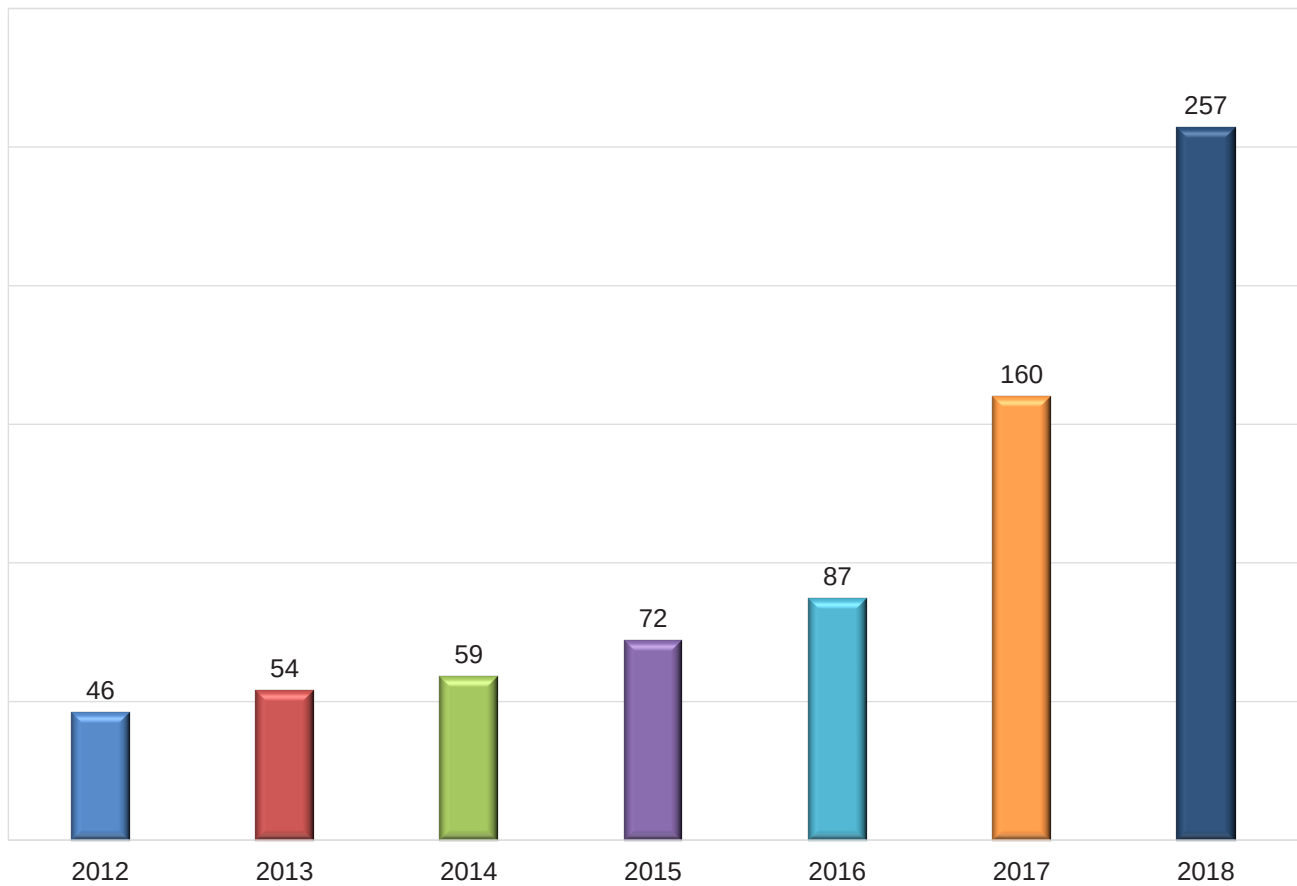
Zero Mismatch

Count	Recipient Center	Swap #	TXP Date	Donor ABO	Recipient ABO	NKR cPRA	Wait Time In Months	Donor Age ATOT	Recipient Age ATOT	HLA Points
1	UMinn	1468	11/1/2018	A	AB	100	12	49	51	100
2	Piedmont	1295	6/12/2018	O	O	100	2	29	61	100
3	Cornell	1266	4/4/2018	B	AB	0	1	68	63	100
4	Penn	1227	2/14/2018	O	O	7	3	58	26	100
5	Walter Reed	1203	2/8/2018	A	AB	100	5	61	40	100
6	Maine	1157	1/3/2018	A	A	100	9	54	52	100
7	Hartford	1191	1/3/2018	O	O	0	9	46	59	100
8	Hopkins	1019	6/1/2017	A	AB	0	2	40	55	100
9	Brigham	1026	5/24/2017	A	A	95	2	58	33	100
10	ChristHosp	952	1/18/2017	A	A	99	1	57	34	100
11	UMinn	928	11/8/2016	A	A	100	4	66	12	100
12	Cincinnati	884	8/31/2016	A	A	73	1	28	40	100
13	OSU	509	8/30/2016	A	A	91	1	38	67	100
14	SCarolina	459	2/11/2016	A	A	100	3	64	53	100
15	Madison	442	12/22/2015	A	A	97	6	22	63	100
16	UMinn	440	11/19/2015	O	O	100	5	23	20	100
17	UCLA	357	2/17/2015	A	A	100	34	39	52	100
18	Emory	351	12/11/2014	A	A	100	5	25	33	100
19	Hopkins	330	11/13/2014	A	O	96	1	41	38	100
20	Loyola	324	8/5/2014	A	A	100	1	37	55	100
21	Madison	674	1/9/2014	O	A	99	5	29	33	100
22	Barnabas	182	10/3/2012	A	A	92	4	51	50	100
23	Barnes	105	3/31/2011	A	A	100	7	60	32	100
24	UCSF	58	6/15/2010	A	A	100	6	47	58	100

New Exportable Pairs



Chains Started



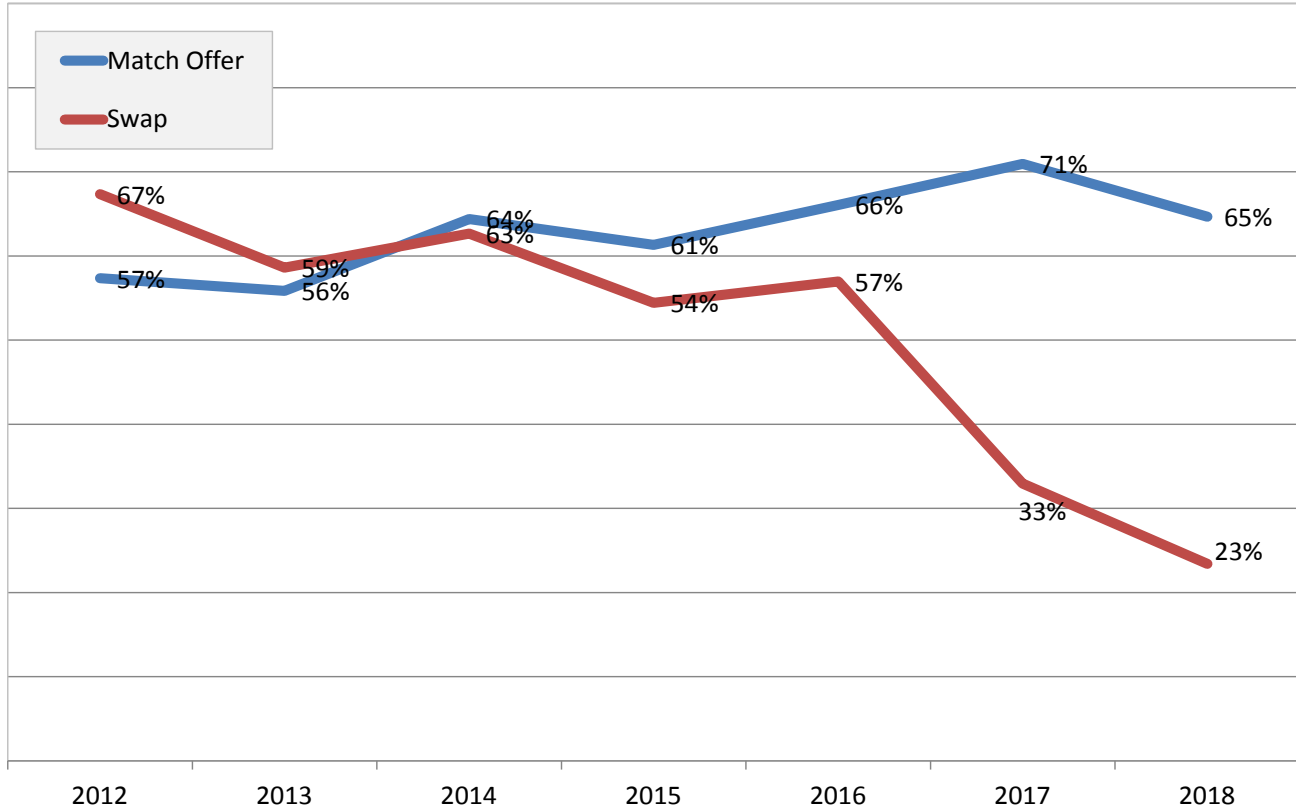
Chain and Loop Statistics

Category	Count	Mean Length	Transplants
Ended	791	3.48	2751
Broken	27	3.85	104
Active	3	1.67	5
Chain Total	821	3.48	2860
Loops	122	2.31	282
Total	943	3.33	3142

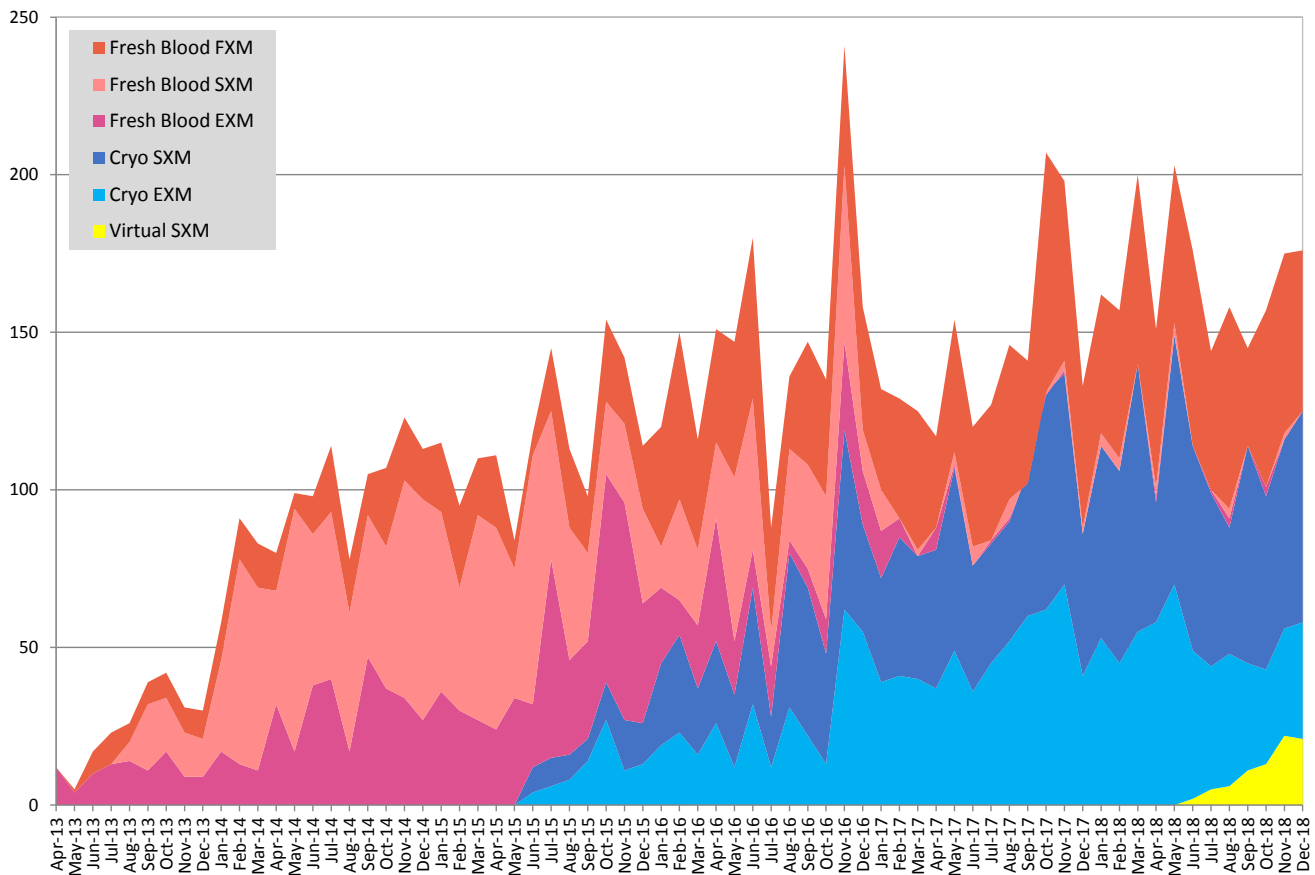
**Updates as of 2/08/19

Failure Rates

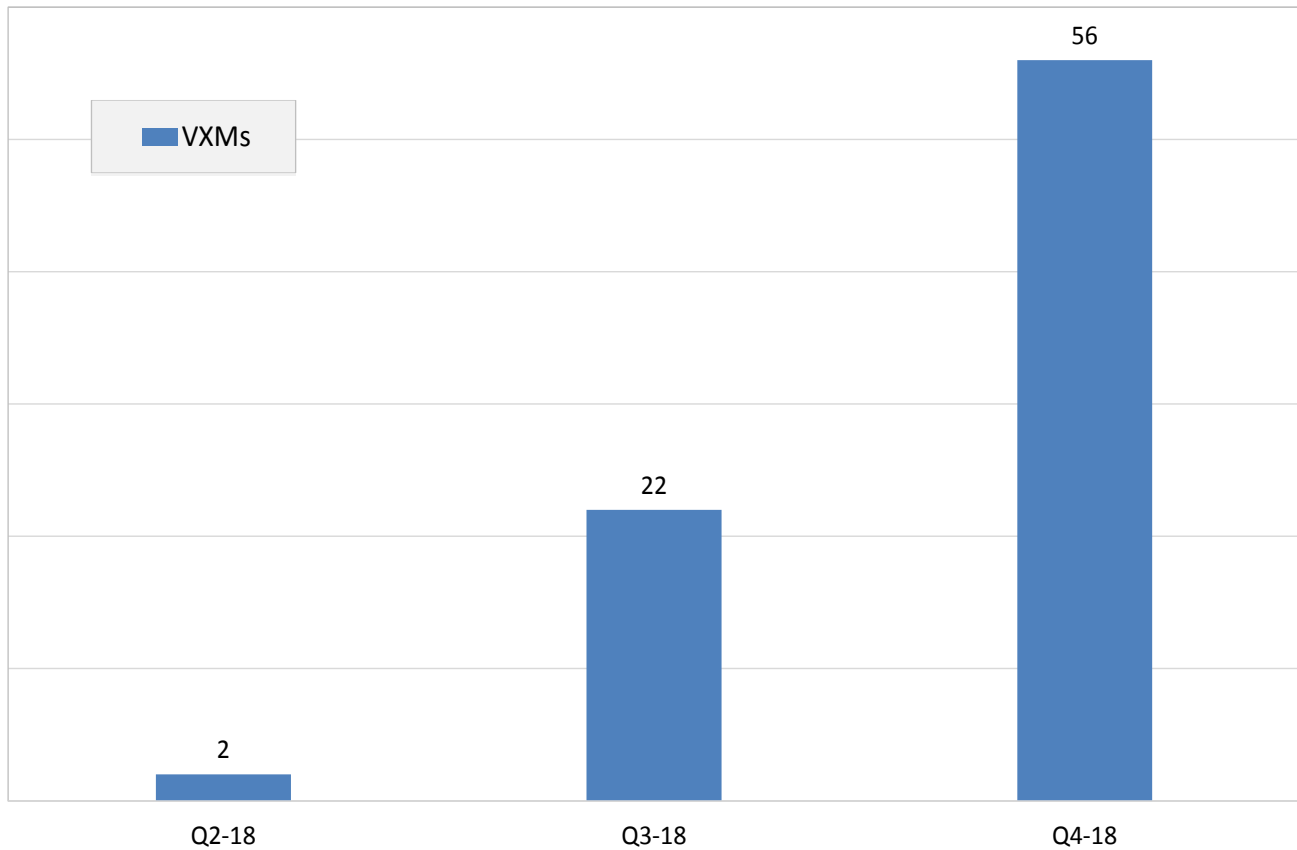
MO Rate = $1 - (XM/MO)$
 Swap Rate = $1 - (TXP/XM)$



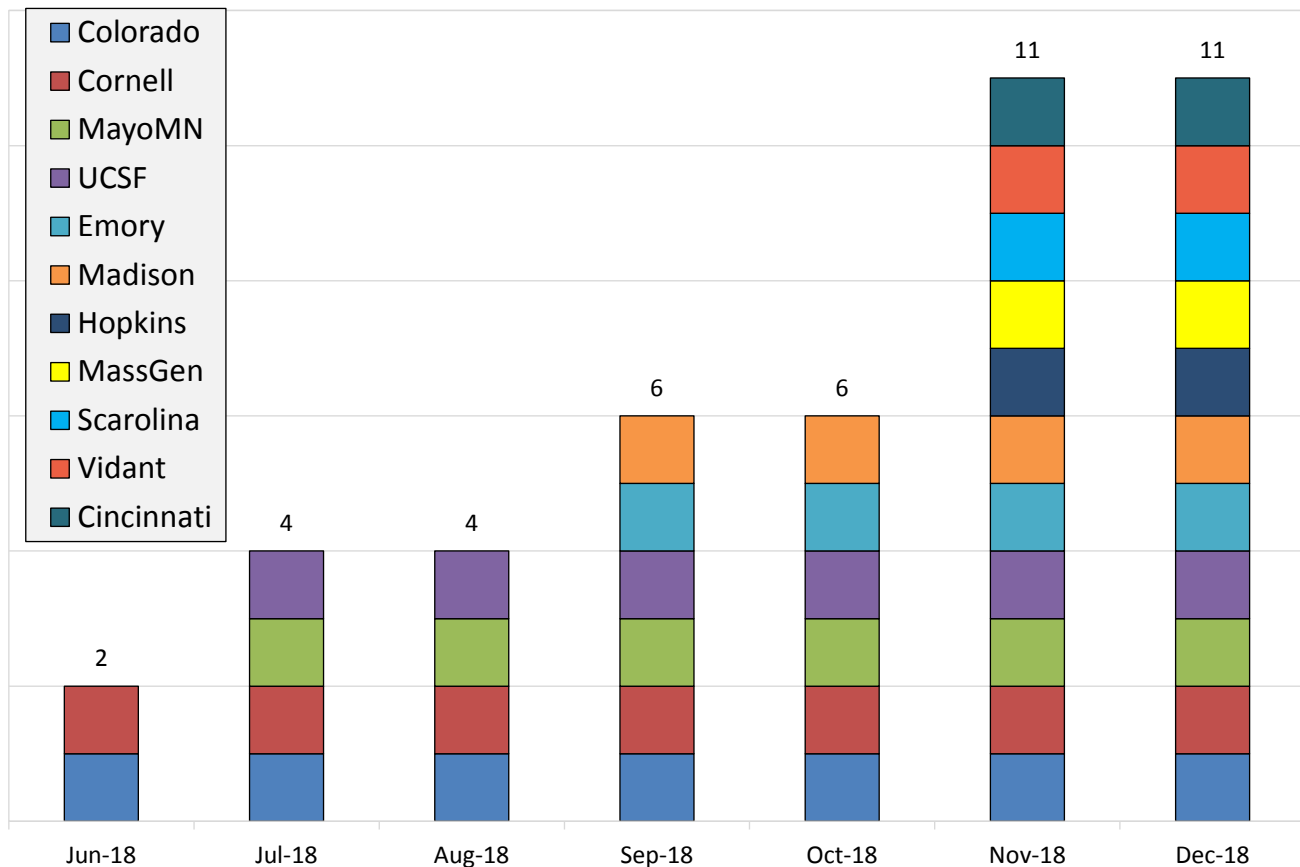
Streamlined XMs Requested



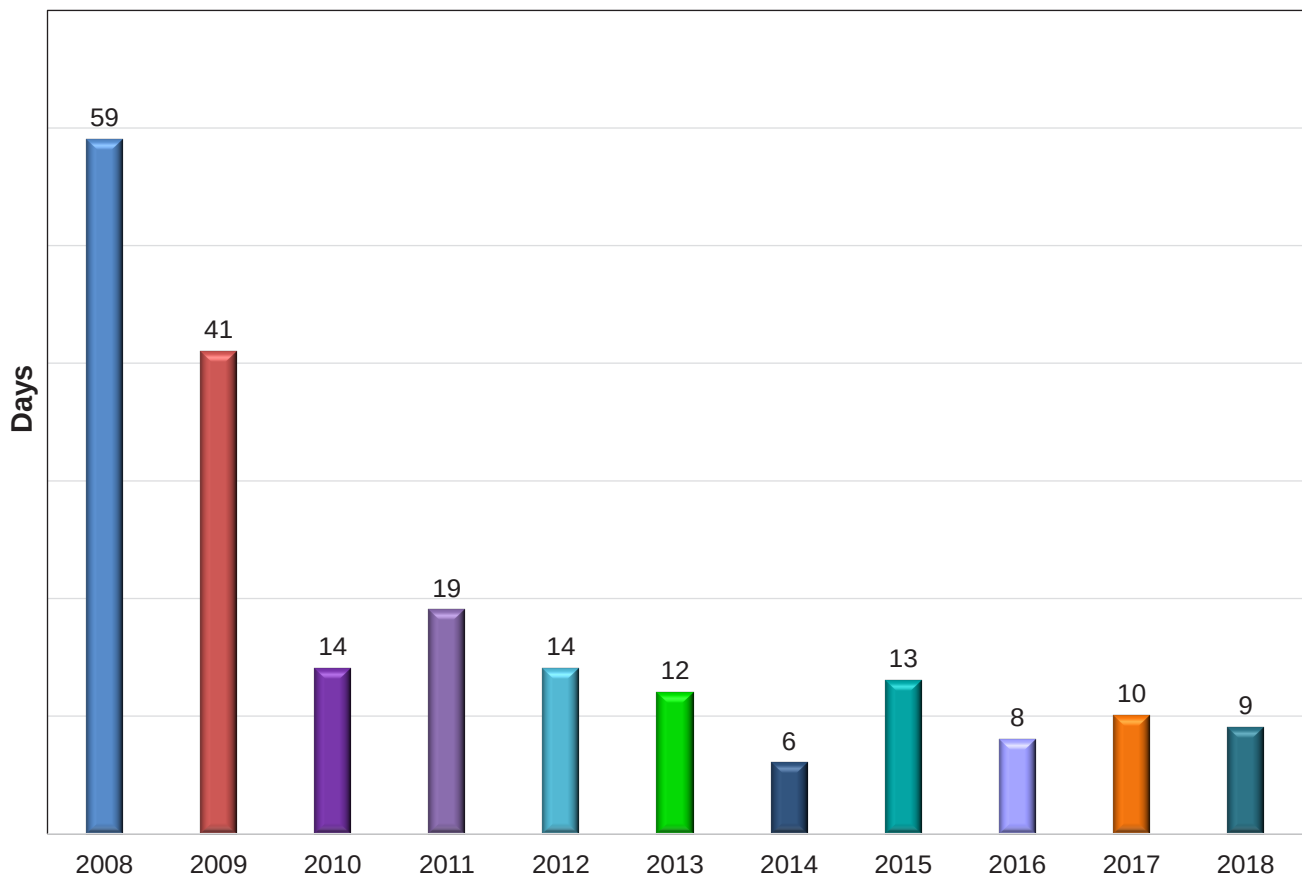
Virtual Screening Crossmatches



Centers Utilizing Virtual Screening Cross Matching



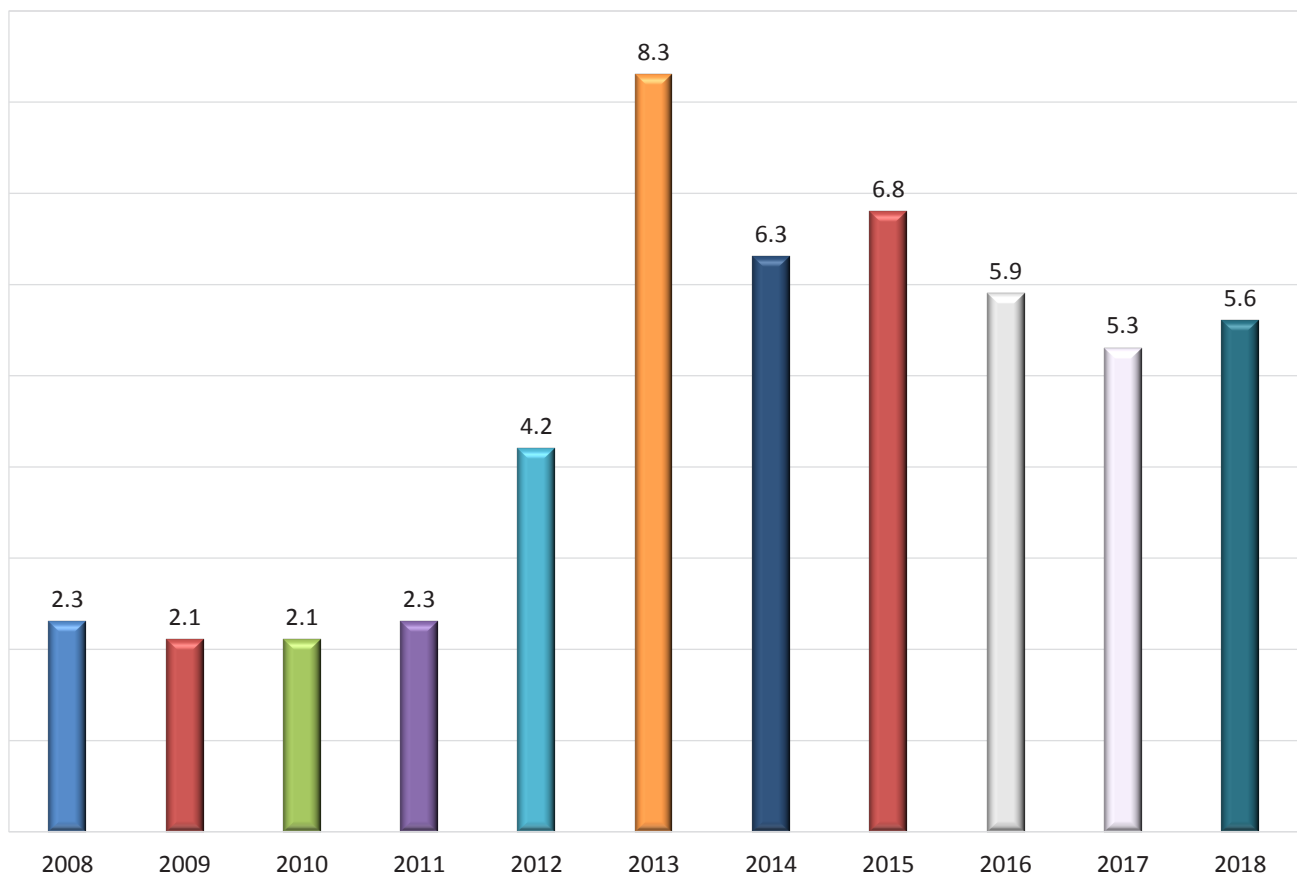
Bridge Donor Median Wait Times



Bridge Donor Wait Times

Year	Median	Mean	Max	Min
2008	59	53	77	16
2009	41	59	187	3
2010	14	51	385	2
2011	19	23	68	4
2012	14	29	314	2
2013	12	20	92	2
2014	6	11	97	2
2015	13	26	175	2
2016	8	14	71	2
2017	10	16	114	2
2018	9	13	46	2

NKR Transplants per Bridge Donor



Summary Report

Broken Chains & Real Time Swap Failures

Year	# Chains	% Broken Chains	# Bridge Donors	# Real Time Swap Failures	# Broken Chains	% Bridge Donations Canceled ¹
2008	4	75%	9	--	3	33%
2009	9	22%	29	1	2	7%
2010	28	7%	61	--	2	3%
2011	36	0%	75	--	0	0%
2012	46	9%	54	--	4	7%
2013	55	5%	37	3	3	8%
2014	63	6%	49	2	4	8%
2015	83	1%	53	1	1	2%
2016	99	1%	68	1	1	3%
2017	160	2%	62	1	3	5%
2018	257	2%	*64	2	4	6%
Total	840	3%	532	11	27	5%

¹Includes, donors who did not donate due to back outs, medical or surgical issues on the day of scheduled surgery. See report on following chart for further detail

Detail Report

Broken Chains & Real Time Swap Failures

#	Reason Given	Real Time Swap Failures	Broken Chains	Center	Date
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	Donor sick for swap then reneged later	✓	✓	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
12	Aborted donor surgery	✓	✓	CPMC	6/27/2013
13	Kidney declined by recipient surgeon	✓	✓	RWJ/UPenn	7/23/2013
14	Recipient Medical Issue	✓	✓	Porter	10/16/13
15	Kidney Declined by Recipient Surgeon	✓	✓	Porter/Jefferson	1/9/14
16	Medical		✓	UCLA	3/4/14
17	Recipient Medical Issue	✓	Loop	ChristHosp	3/11/14
18	Medical		✓	Hopkins	7/15/14
19	Medical		✓	Hopkins	10/9/14
20	Kidney Declined by Recipient Surgeon	✓	✓	Tampa/Hopkins	7/7/15
21	Kidney Declined by Recipient Surgeon	✓	--	Porter/Aurora St Lukes	3/17/16
22	Donor reneged		✓	Maryland	8/8/16
23	Donor reneged		✓	SCarolina	1/10/17
24	Kidney Declined by Recipient Surgeon	✓	✓	Indiana/UNC	9/27/2017
25	Donor Ruled Out- Medical Issue		✓	UMinn	8/23/2017
26	Donor reneged		✓	CC Florida	4/4/2018
27	Recipient became too sick for transplant	✓	✓	Loyola	6/19/2018
28	Late Stage Donor Decline		✓	Legacy	7/9/2018
29	Kidney Thrombosis		✓	CC Florida	8/14/2018
30	Donor Surgery Aborted; Donor Safety	✓		Cincinnati	11/6/18
Total		11	27		

Advanced Donation Program (ADP)

Summary

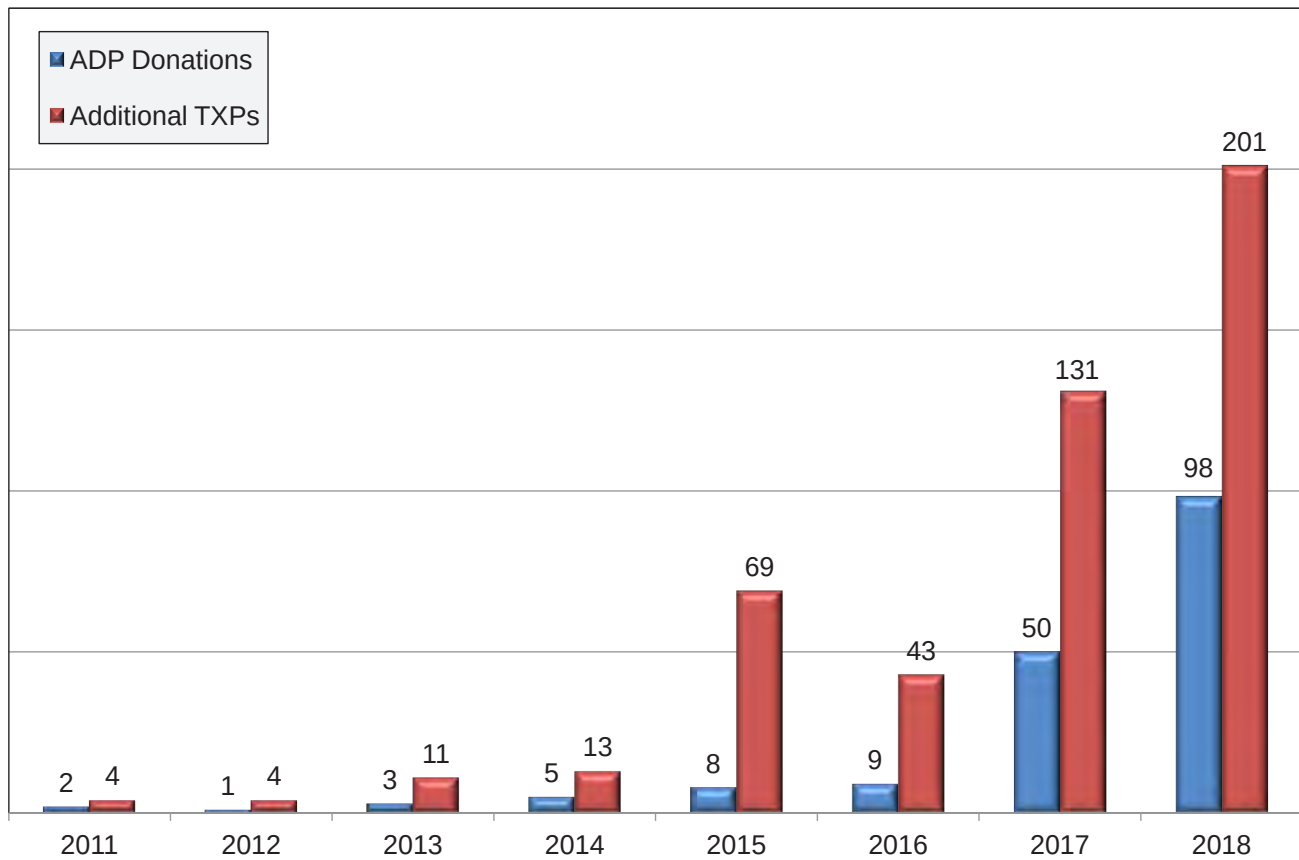
As of 12/31/2018

Type	Cases	Add'l TXPs Facilitated	80 % + cPRA TXPs Facilitated	95 % + cPRA TXPs Facilitated
Short-Term*	130	361	104	52
Voucher**	46	115	21	10
Total	176	476	125	62

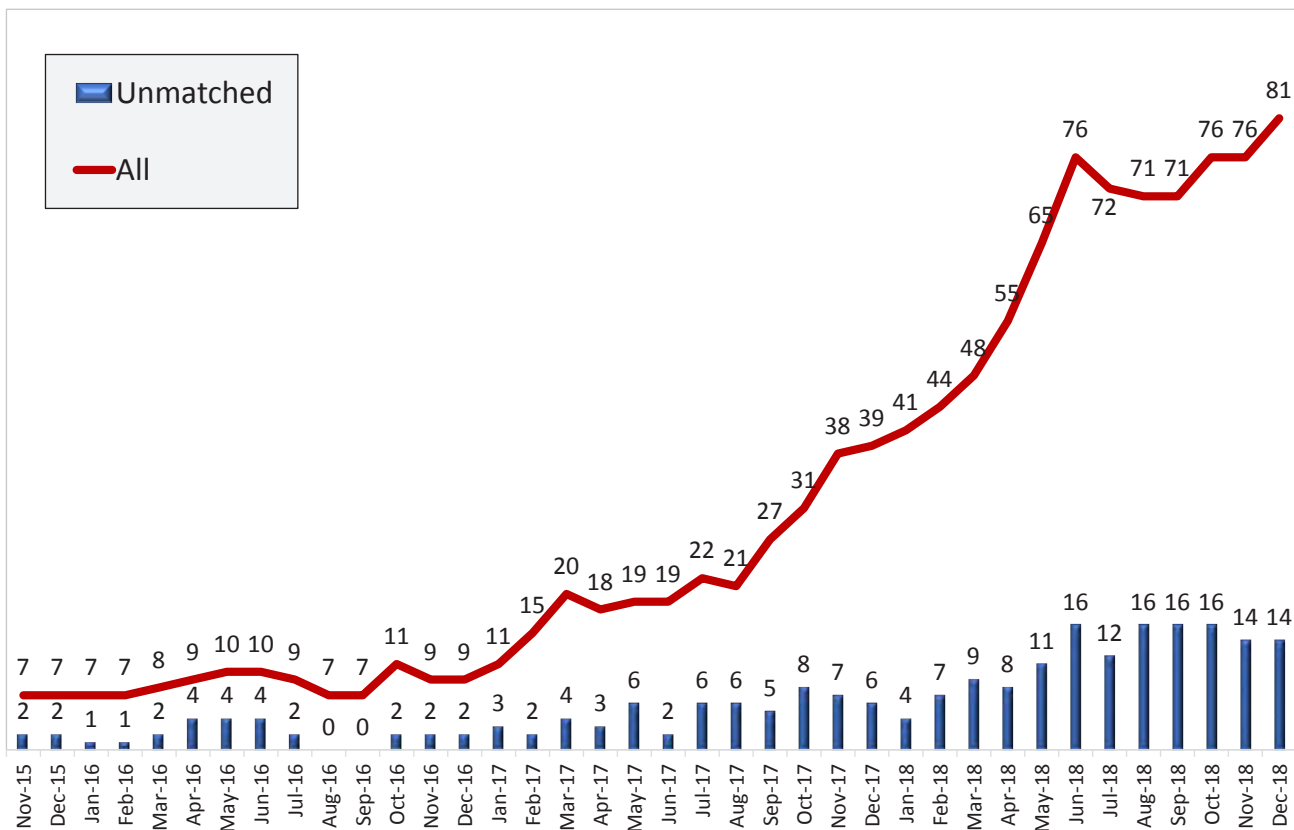
*Short-Term— At time of advanced donation the intended ADP Recipient is in need of transplant.

**Voucher - At time of advanced donation the intended ADP Recipient is not in need and may never be in need of transplant.

ADP Donations & Additional TXPs Facilitated

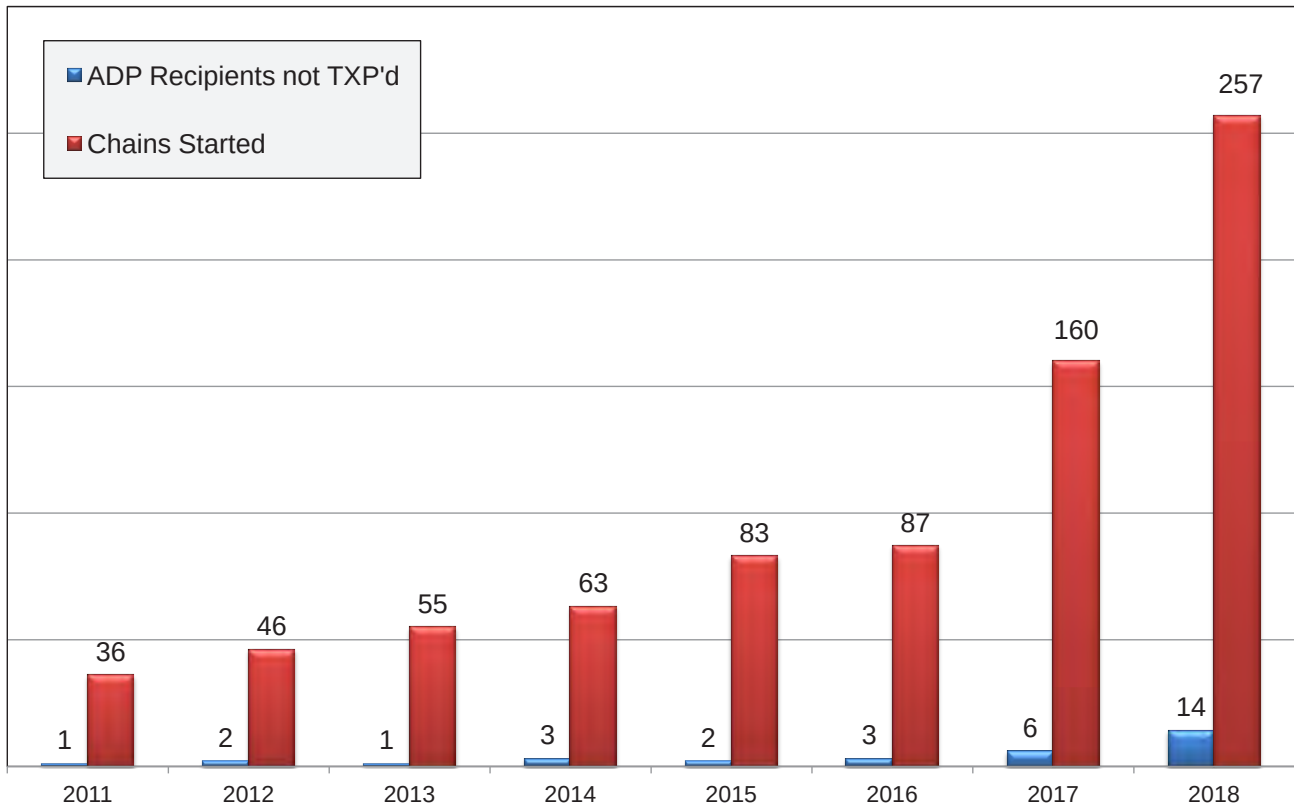


ADP Recipient Pool



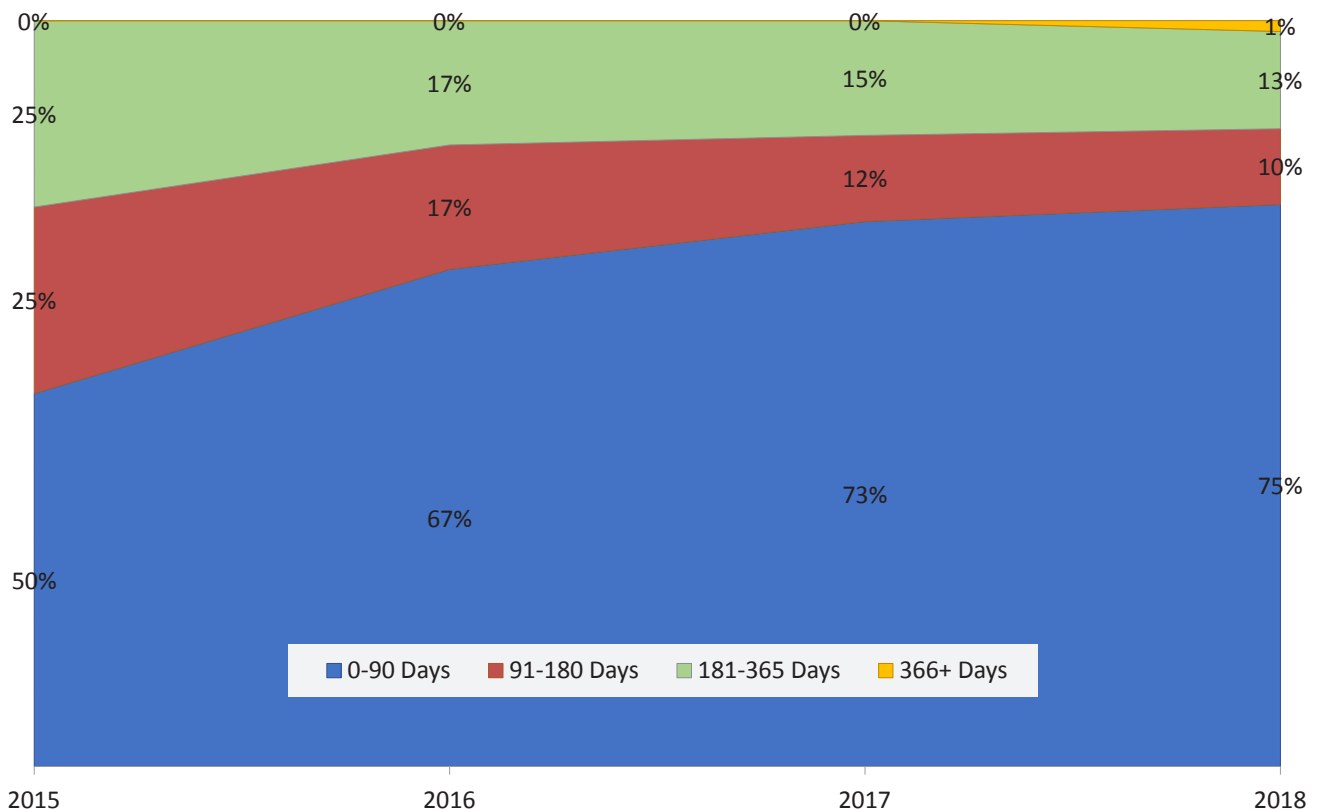
*As of 1/22/19, 10:11 ET

ADP Recipients Outstanding vs. Overall Chains Started



*ADP Recipients not transplanted are recipients whose donor has donated and they are "Active" and "Need Match."

ADP Recipient Wait Time Distribution



*Wait time count begins after the ADP donor has donated and recipient has been activated.

Program Statistics

As of 12/31/2018

		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1	Transplants Facilitated	21	62	131	175	226	308	310	360	399	462	619
2	Paired Transplants Facilitated	21	39	91	131	164	252	255	288	315	318	376
3	Chip Transplants Facilitated	0	23	40	44	62	56	55	72	84	144	245
4	Ending Unmatched Patient Pool	80	127	120	201	241	255	279	280	215	181	157
5	Cumulative Transplants	21	83	214	389	615	923	1233	1593	1992	2454	3075
6	Cumulative Paired Transplants	21	60	150	280	526	777	1030	1316	1630	1946	2322
7	Cumulative Chip Transplants	0	23	64	109	89	146	203	277	362	508	753
8	Cumulative Paired Patient Pool	101	210	334	590	805	1062	1351	1615	1877	2152	2514
9	Percent of Pool Transplanted (Paired Recipients)	21%	40%	64%	66%	71%	76%	79%	84%	89%	92%	94%
10	Enrolled Patient Mean Wait Time (years)	3.8	2.0	0.9	1.1	1.1	1.0	0.9	0.9	0.9	0.9	0.6
11	Transplanted Patient Mean Wait Time (months)	5.1	5.3	6.0	5.0	5.1	5.4	4.8	4.1	4.7	4.0	3.5
12	Transplanted Patient Median Wait Time (months)	5.3	5.3	3.9	2.5	3.0	3.0	2.3	2.1	2.2	1.8	1.8
13	Mean cPRA of Transplanted Patients	4.1%	25.9%	34.5%	40.3%	44.1%	54.0%	48.3%	48.9%	42.8%	41.9%	40.8%
14	Number of Transplants Completed by cPRA											
15	100%	0	1	4	10	4	5	3	7	3	4	7
16	95-100%	0	4	12	10	29	68	41	47	39	41	57
17	80-95%	1	7	16	29	26	37	49	55	59	60	61
18	50-80%	0	5	19	27	33	46	48	42	53	49	85
19	0-50%	1	8	13	30	34	47	43	57	61	94	84
20	0%	19	37	67	69	100	105	126	152	184	214	327
21	Sub-total	21	62	131	175	226	308	310	360	399	462	621
22	Percent of Transplants Completed by cPRA											
23	100%	0%	2%	3%	6%	2%	2%	1%	2%	1%	1%	1%
24	95-100%	0%	6%	9%	6%	13%	22%	13%	13%	10%	9%	9%
25	80-95%	5%	11%	12%	17%	12%	12%	16%	15%	15%	13%	10%
26	50-80%	0%	8%	15%	15%	15%	15%	15%	12%	13%	11%	14%
27	0-50%	5%	13%	10%	17%	15%	15%	14%	16%	15%	20%	14%
28	0%	90%	60%	51%	39%	44%	34%	41%	42%	46%	46%	53%
29	Sub-total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
30	Number of Transplanted Patients with cPRA >80%	1	12	32	49	59	110	93	109	101	105	125
31	Percent of Transplanted Patients with cPRA >80%	5%	19%	24%	28%	26%	36%	30%	30%	26%	23%	20%

Program Statistics

As of 12/31/2018

		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
32	Number of Unmatched Patients by cPRA											
33	100%				79	73	83	81	80	80	63	54
34	95-99%				73	73	61	61	53	37	32	33
35	80-95%				15	15	24	19	22	12	14	9
36	50-80%				14	11	14	13	25	13	8	9
37	0-50%				14	10	22	37	35	28	16	19
38	0%				50	59	51	68	65	45	48	33
39	Sub-total				245	241	255	279	280	215	181	157
40	Percent of Unmatched Patients by cPRA											
41	100%				32%	30%	33%	29%	29%	37%	35%	34%
42	95-99%				30%	30%	24%	22%	19%	17%	18%	21%
43	80-95%				6%	6%	9%	7%	8%	6%	8%	6%
44	50-80%				6%	5%	5%	5%	9%	6%	4%	6%
45	0-50%				6%	4%	9%	13%	13%	13%	9%	12%
46	0%				20%	24%	20%	24%	23%	21%	27%	21%
47	Sub-total				100%	100%	100%	100%	100%	100%	100%	100%
48	Number of Transplants Completed by Wait Time											
49	< 6 months	21	42	74	106	180	232	243	298	327	392	555
50	6-12 months	0	10	14	19	24	44	35	38	30	37	37
51	1-2 years	0	4	15	14	20	25	27	22	32	29	25
52	2+ years	0	0	2	2	2	7	5	2	10	4	4
53	Sub-total	21	56	105	141	226	308	310	360	399	462	621
54	Percent of Transplants Completed by Wait Time											
55	< 6 months	100%	75.0%	70.5%	75.2%	79.6%	75.3%	78.4%	82.8%	82.0%	84.8%	89.4%
56	6-12 months	0.0%	17.9%	13.3%	13.5%	10.6%	14.3%	11.3%	10.6%	7.5%	8.0%	6.0%
57	1-2 years	0.0%	7.1%	14.3%	9.9%	8.8%	8.1%	8.7%	6.1%	8.0%	6.3%	4.0%
58	2+ years	0.0%	0.0%	1.9%	1.4%	0.9%	2.3%	1.6%	0.6%	2.5%	0.9%	0.6%
59	Sub-total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
60	Total Chains Started	4	9	28	36	46	55	63	83	99	160	257
61	Total Loops Completed	0	3	2	3	12	24	17	15	7	15	16
62	Number of broken chains	3	2	2	0	4	3	4	1	2	3	2
63	Bridge Donors Held	9	29	61	75	54	37	49	53	68	62	66
64	Percent of broken chains	33%	7%	3%	0%	7%	8%	8%	2%	3%	5%	3%



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