

NATIONAL KIDNEY REGISTRY®

FACILITATING LIVING DONOR TRANSPLANTS



Quarterly Report

Q3 Results 2020

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Message from the Founder & CEO



Starting in June, NKR activity returned to pre-pandemic levels with October setting a record for the most KPD transplants in a single month. As our volumes continue to grow, patient wait times continue to drop. Because wait times have dropped so much over the years, we have added a new category in the Wait Time Distribution chart for patients matched and transplanted in under 45 days. In the third quarter, a remarkable 49% of patients were matched and transplanted in under 45 days.

During the third quarter, there was a dramatic improvement in the swap failure rate, dropping from 33% in the prior two quarters to 13% in the third quarter. This significant improvement was primarily driven by widespread adoption of virtual cross-matching and the increasing accuracy of this methodology. Most centers now exceed a 95% virtual cross-match accuracy rate. Our goal is to achieve a 95% accuracy rate at all NKR Member Centers by the end of 2020.

The Voucher Program continues to gain popularity with over half of Good Samaritan donor candidates choosing to become Family Voucher donors and over a third of paired donors now choosing to enter the Standard Voucher Program. In the third quarter we deployed the Voucher Education Module to better educate donor candidates about the advantages of voucher donation. Early results indicate that only 10% of donor candidates choose to opt out of the Voucher Program and about 50% indicate an interest in learning more about the Voucher Program.

This decoupling of pairs is particularly important as we see the increasing success of the Kidney for Life program. To date, we have found 11 low eplet mismatches including 5 zero mismatch matches across the 7 centers.

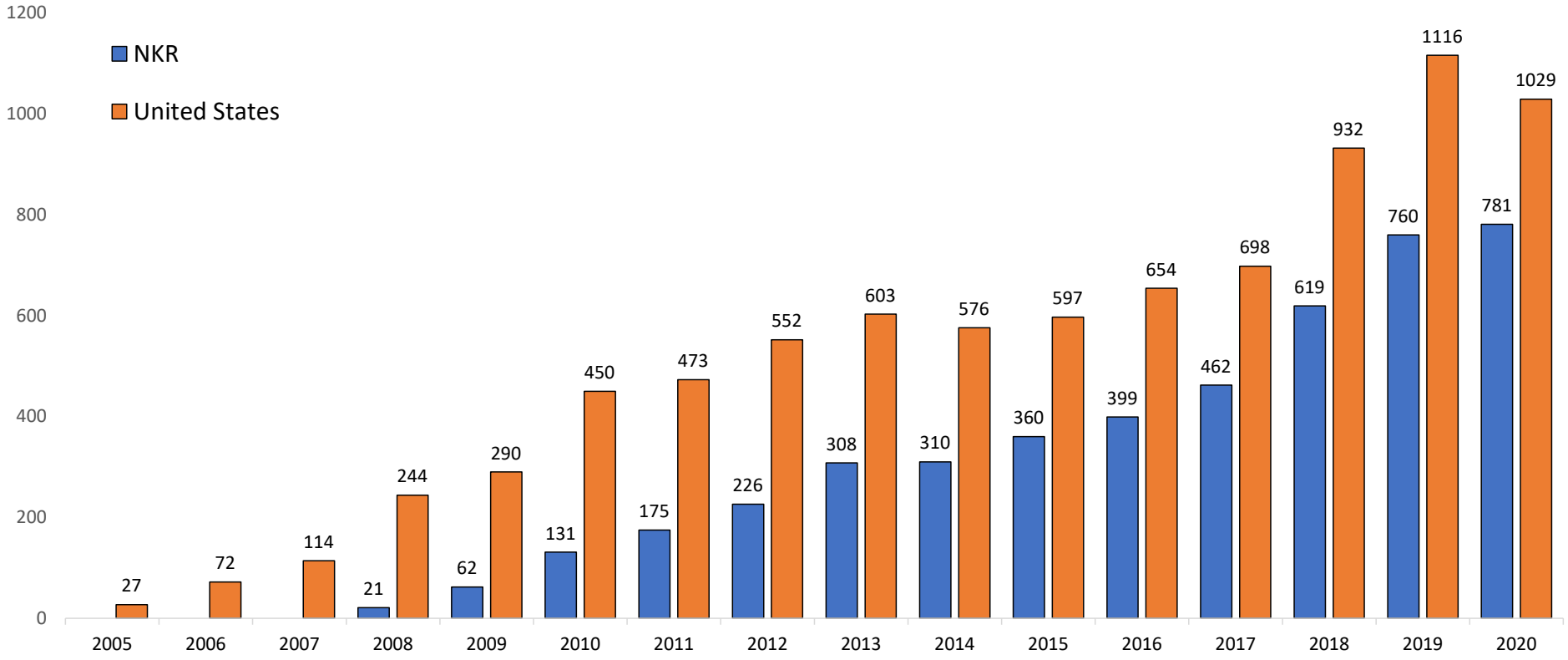
Thank you for your support and keep up the great work!

Sincerely,



Garet Hil
Founder & CEO
National Kidney Registry

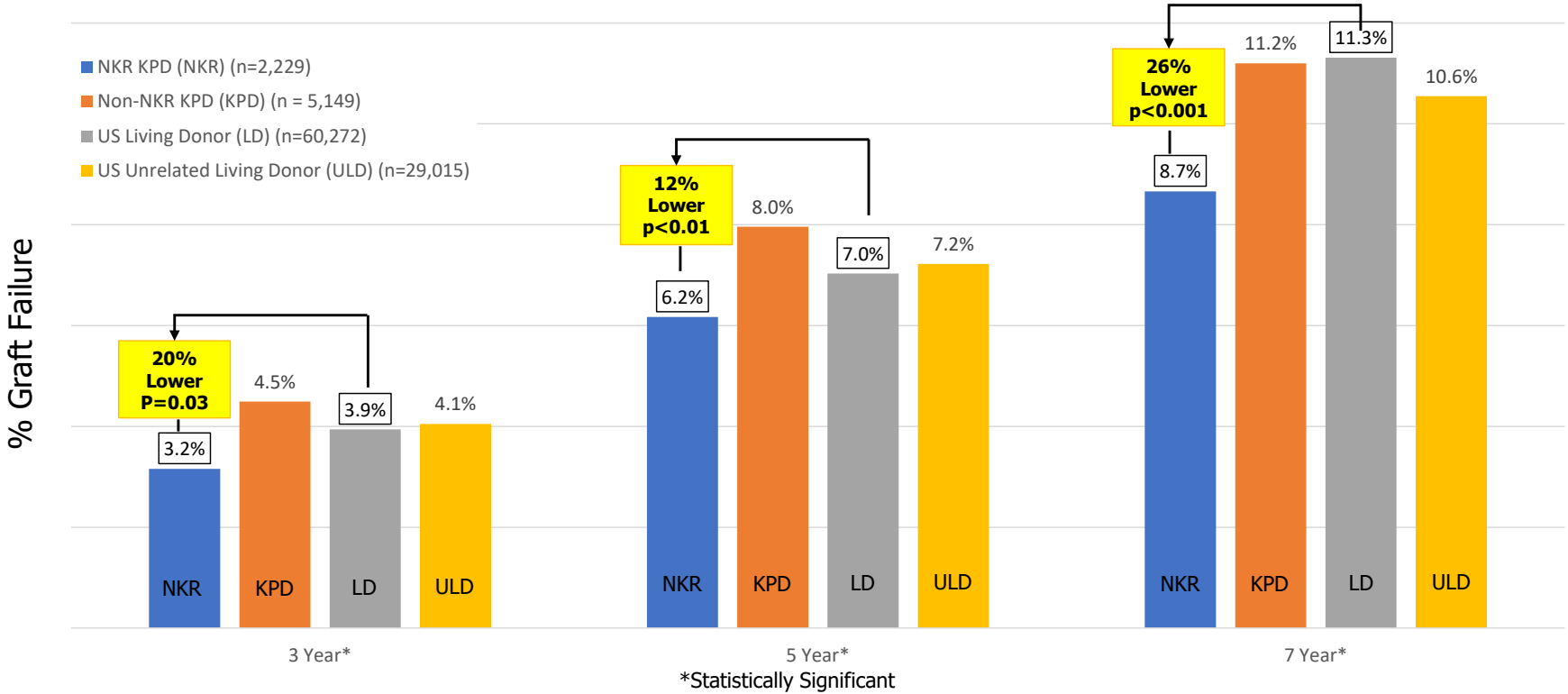
NKR Leading U.S. KPD Growth



*Organ Procurement and Transplantation Network. https://optn.transplant.hrsa.gov/ Accessed 10/28/20

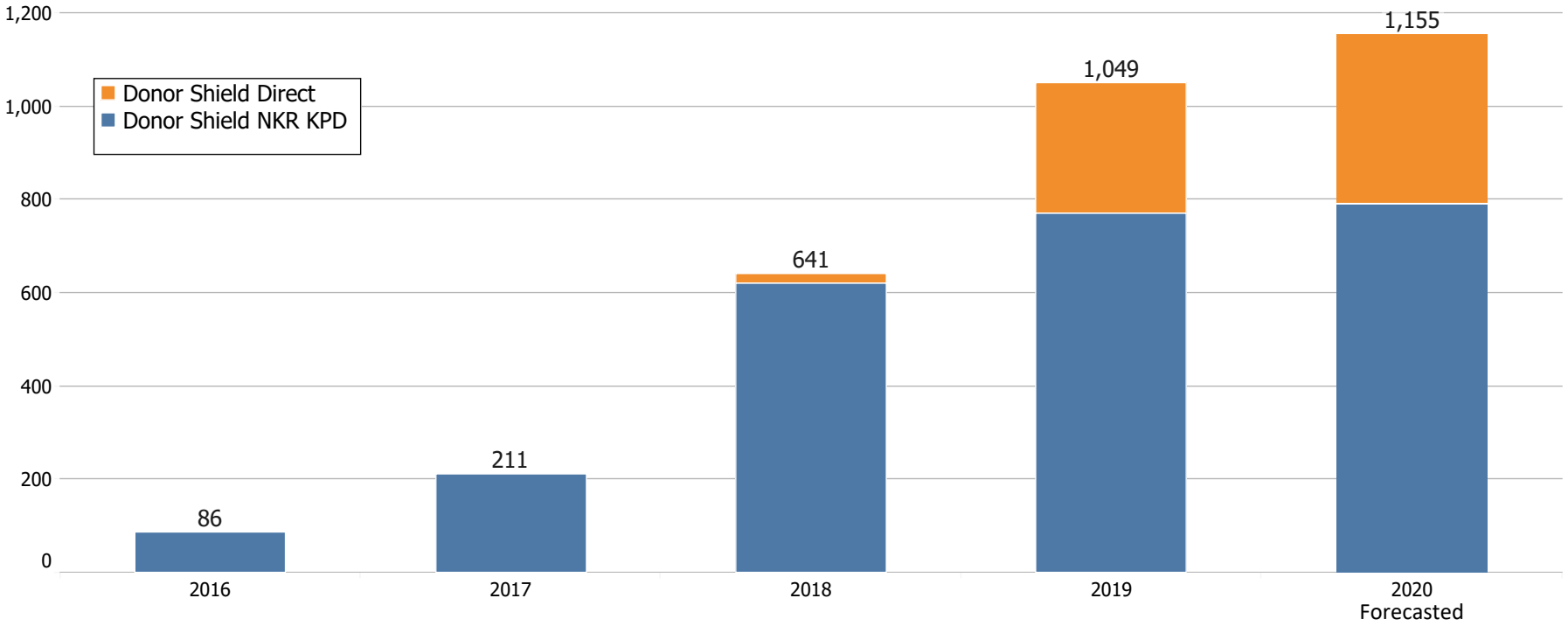
Superior Outcomes

Death Censored Graft Failure Comparisons



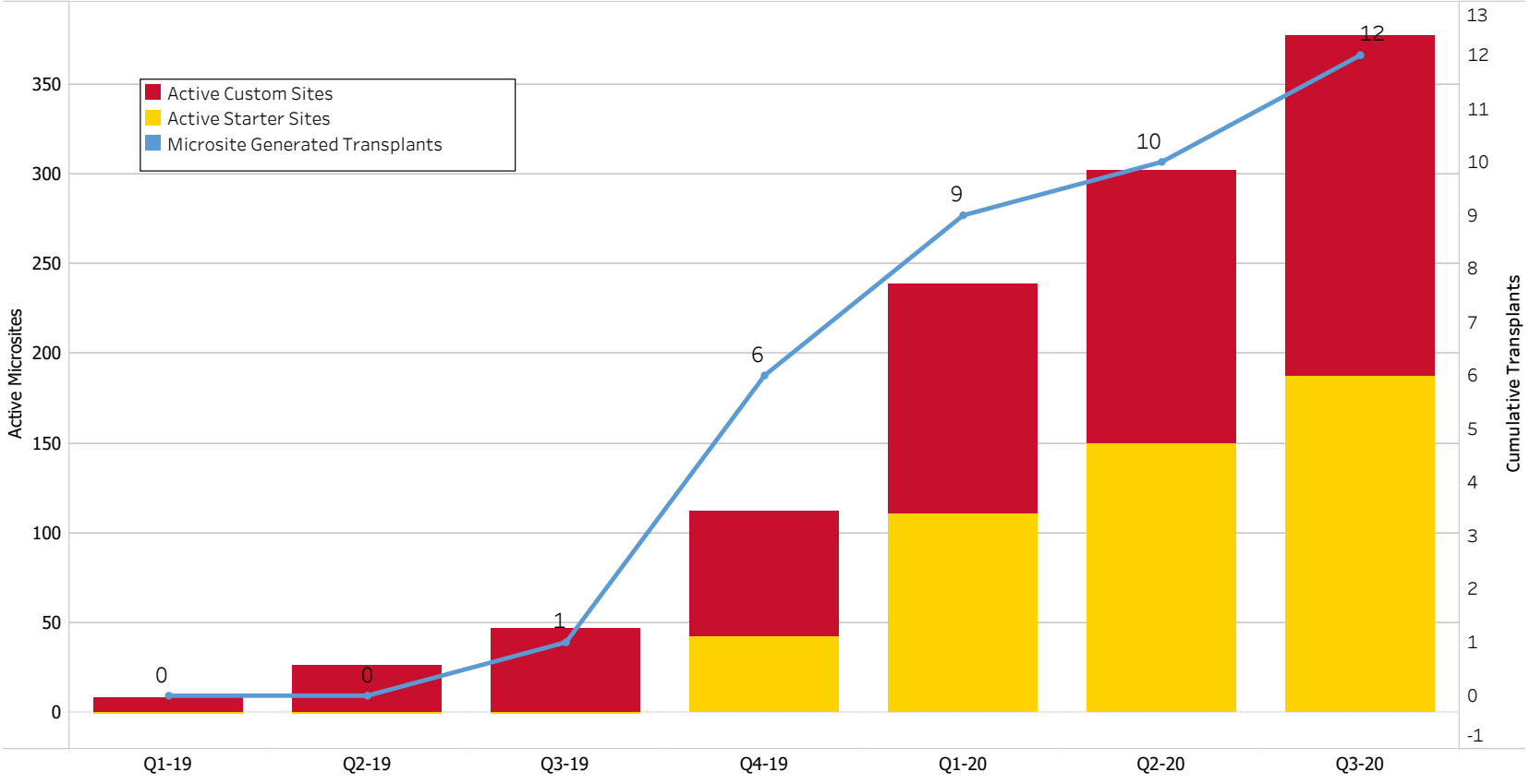
Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including CHIP patients;
Kaplan-Meier GS Rates for Transplants Performed: 02/2008-12/2018 with follow-up through 6/30/2019
https://www.srtr.org/ SRTR data as of September 2019

Donors Supported and Protected

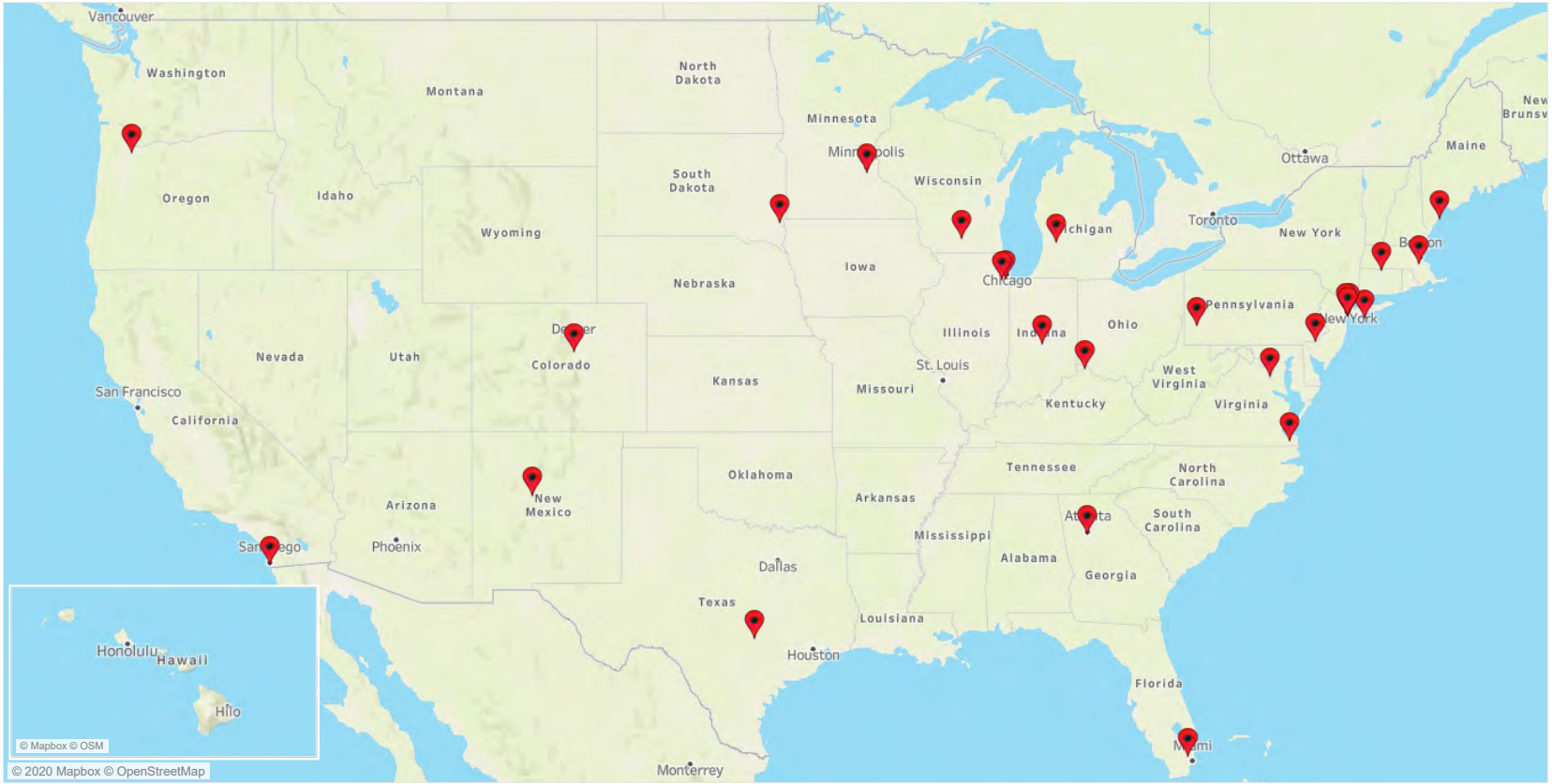


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*Restated due to database update/changes affecting calculations

Microsite Growth

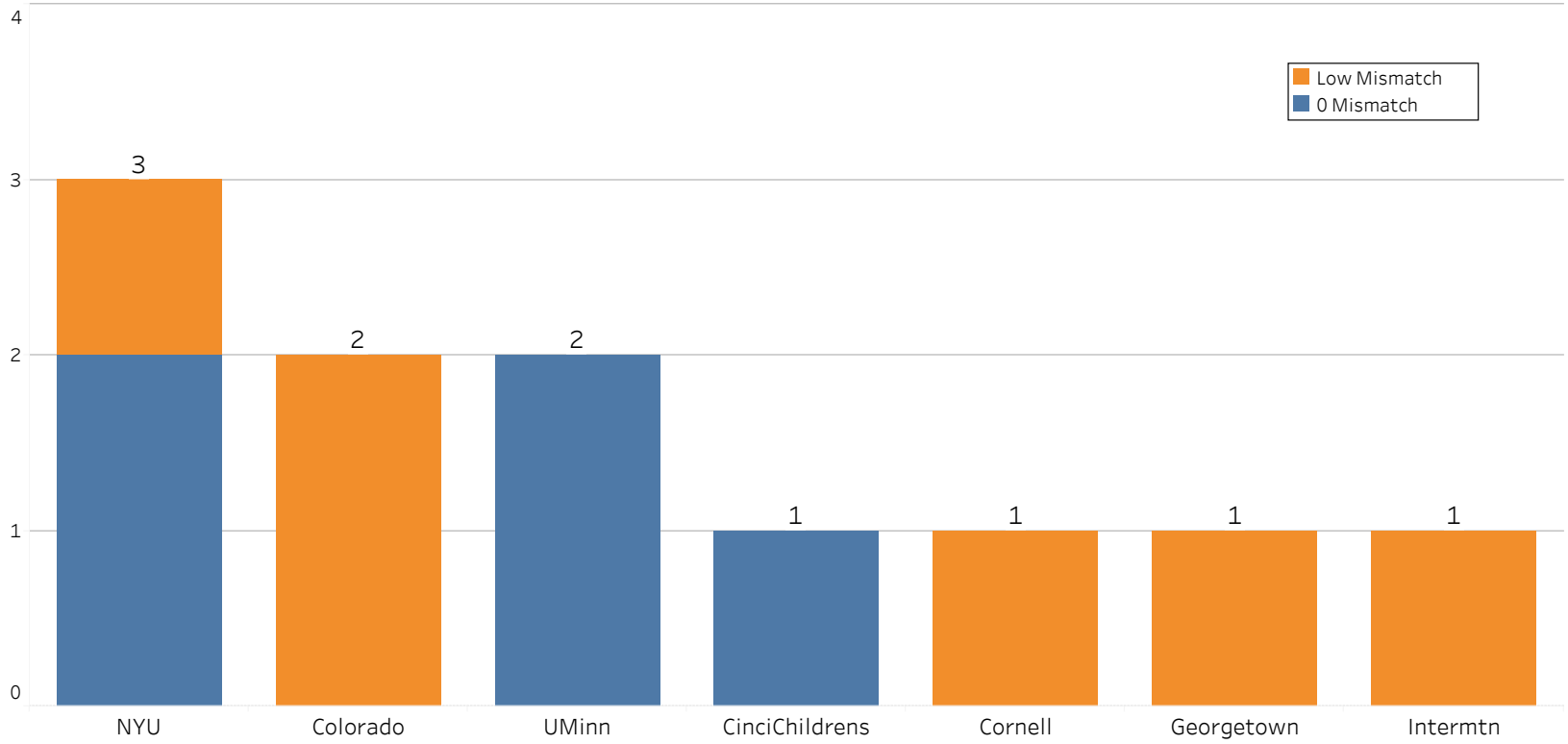


Microsite Centers



Kidney for Life Successful Matches

Patients Matched and/or Transplanted by Center



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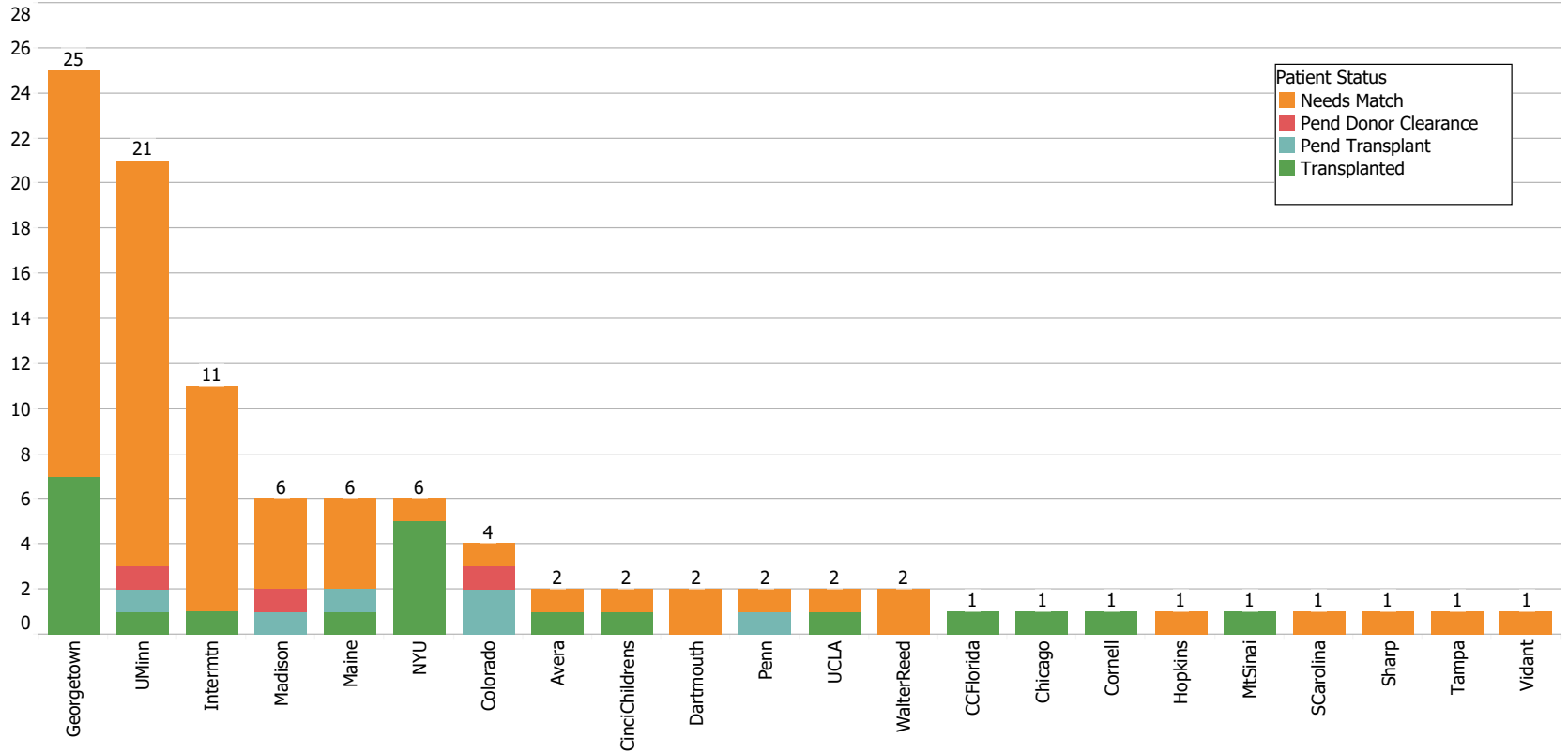
Kidney for Life Successful Matches

0 and Low Eplet Mismatches (MM)

#	R Center	R Alias	cPRA	R Age TOT	R ABO	Match Offer Date	Transplant Date	Compatibility	Paired Donor Eplet MM	Matched Donor Eplet MM	Exportable To Match Offer (Days)	Match Offer To Transplant (Days)	Exportable To Transplant (Days)
1	Colorado	CF7874327	0	6	A	11/11/20	12/09/2020	Compatible	Low	Low	1	28	29
2	Colorado	JD1463793	12	34	A	11/06/20	12/02/2020	Compatible	High	Low	1	26	27
3	Cornell	PRAP86	0	33	B	07/28/20	08/26/2020	Compatible	UNK	Low	43	29	72
4	UMinn	ROJO75	79	44	O	11/03/20	11/24/2020	ABOi	Medium	0	21	21	42
5	Intermtn	SPECAMREC	100	38	O	10/07/20	10/29/2020	HLAi	High	Low	56	22	78
6	Georgetown	FS0923628R	0	60	B	09/22/20	10/28/2020	ABOi	High	Low	12	36	48
7	CinciChildrens	HM11376290	0	6	A	10/06/20	10/28/2020	ABOi	High	0	316	22	338
8	NYU	JJ14219675	0	65	O	09/24/20	10/21/2020	ABOi	UNK	Low	37	27	64
9	UMinn	NELKI77	71	42	B	09/23/20	10/13/2020	HLAi	High,High	0	1	20	21
10	NYU	MV12134082	87	63	O	09/02/20	09/30/2020	HLAi	High	0	9	28	37
11	NYU	PB12351383	0	61	O	06/05/20	08/26/2020	ABOi	High	0	15	82	97

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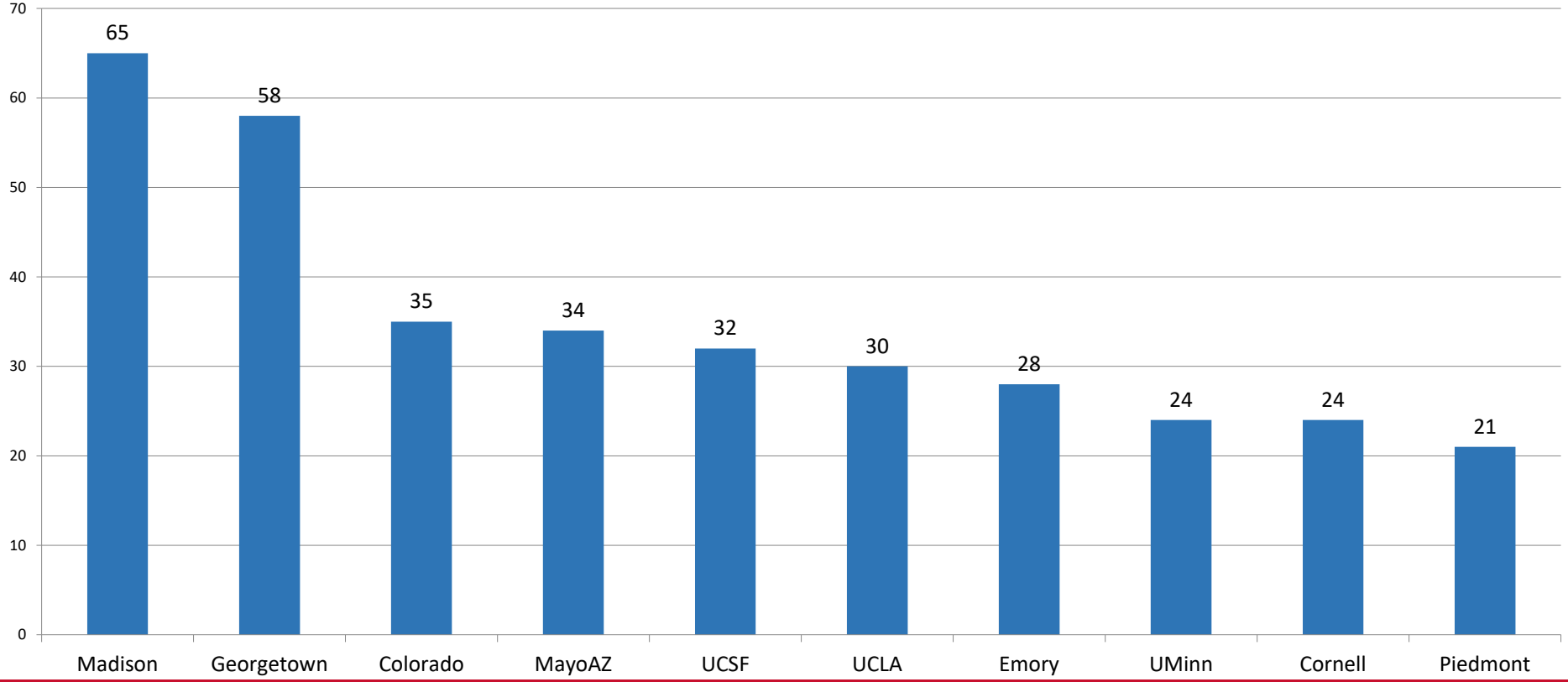
Patients with 3G Typing by Center



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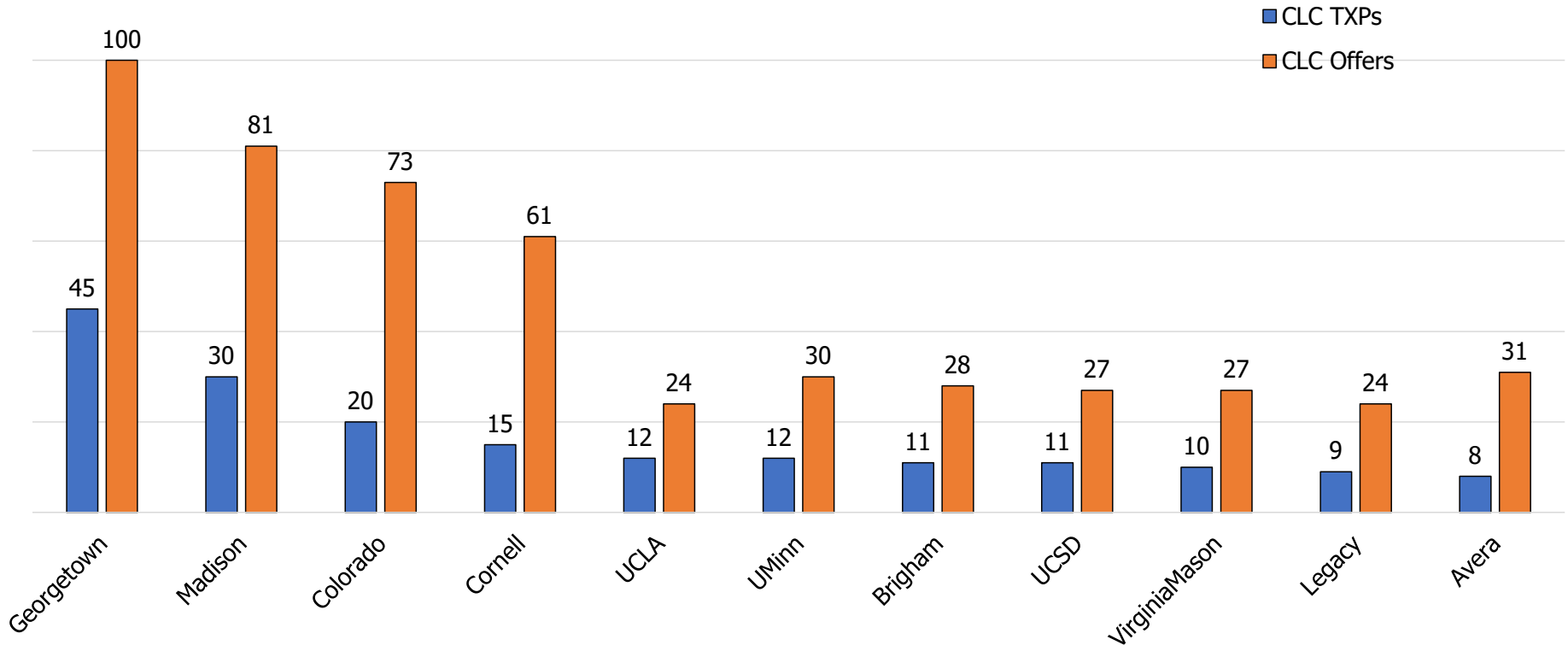
Top Centers

NKR KPD Transplants 10/1/2019 - 09/30/2020



Top Center Liquidity Contributors (CLC)

CLC Driven Transplants 10/01/2019 - 09/30/2020



Partner Center Chain End Targets

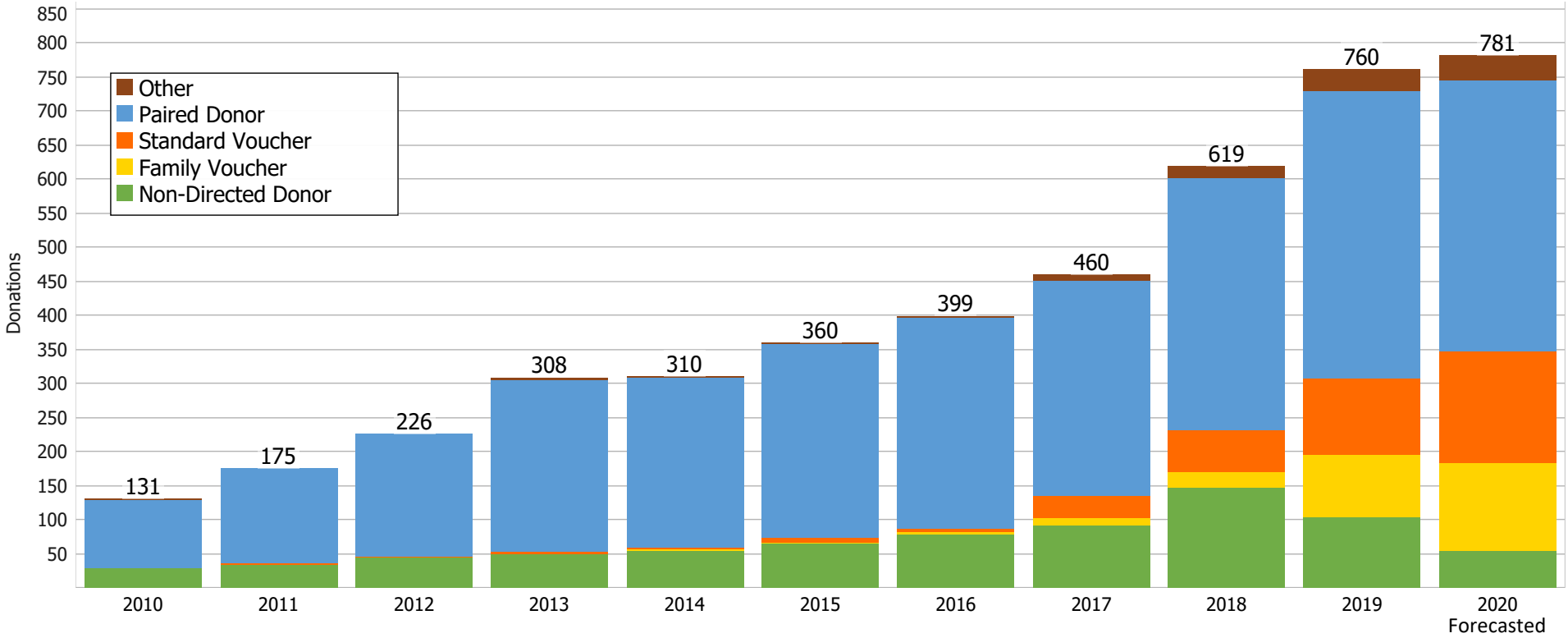
As of 11/4/20

Center	Family Voucher (FV) Target	FV O Chains Last 24 Months	FV Non-O Chains Last 24 Months	Net Chains Starts	Declines Last 12 Months	Match Offer Decline Ratio	Center Liquidity Contribution
Colorado	23	8	11	-31	16	73	210
Maine	12	2	4	-4	10	83	-1440
Cornell	10	8	7	-36	12	80	2100
UCSF	10	6	4	-22	0	0	-6700
Madison	10	11	21	-76	24	73	-2850
MayoAZ	8	5	2	-16	2	15	-2900
Avera	8	2	2	-4	14	175	2600
Hartford	7	1	2	-1	4	67	540
Brigham	7	3	4	-13	7	140	-1000
NYU	6	1	1	0	4	50	200
UCSD	6	2	6	-14	1	17	9740
CCFlorida	5	2	1	-5	1	33	-3440
Rush	3	1	3	-7	1	17	-680
UCLA	2	4	7	-28	5	28	-7300
Legacy	2	1	1	-4	14	93	-1980
UHCleveland	2	0	1	0	0	0	3400
UMinn	1	5	2	-23	0	0	12880
HMHN	0	0	0	0	0	0	0
Piedmont	0	0	0	0	1	25	-9200
Cincinnati	0	0	0	0	1	11	2200
Sharp	-1	0	1	-3	1	50	-2390
Allegheny	-1	1	0	-5	1	999	-2240
Vidant	-2	0	0	-2	0	0	3000
ChristHosp	-2	0	1	-4	0	0	6620
VAHD	-3	0	1	-5	0	0	3360
Georgetown	-4	7	4	-40	4	19	6710
MtSinai	-4	0	0	-4	5	167	-14830
VirginiaMason	-7	0	0	-7	18	257	-1400
Emory	-10	0	3	-16	9	112	-4640

* https://clc.kidneyregistry.org/WebForm1.aspx?ReportKeyPass=ag5Ghnf76Tghd765GFtre&NcsSummary=1&Sort=DefaultSort&Supress=1 11/4/20

Decline ratio >100

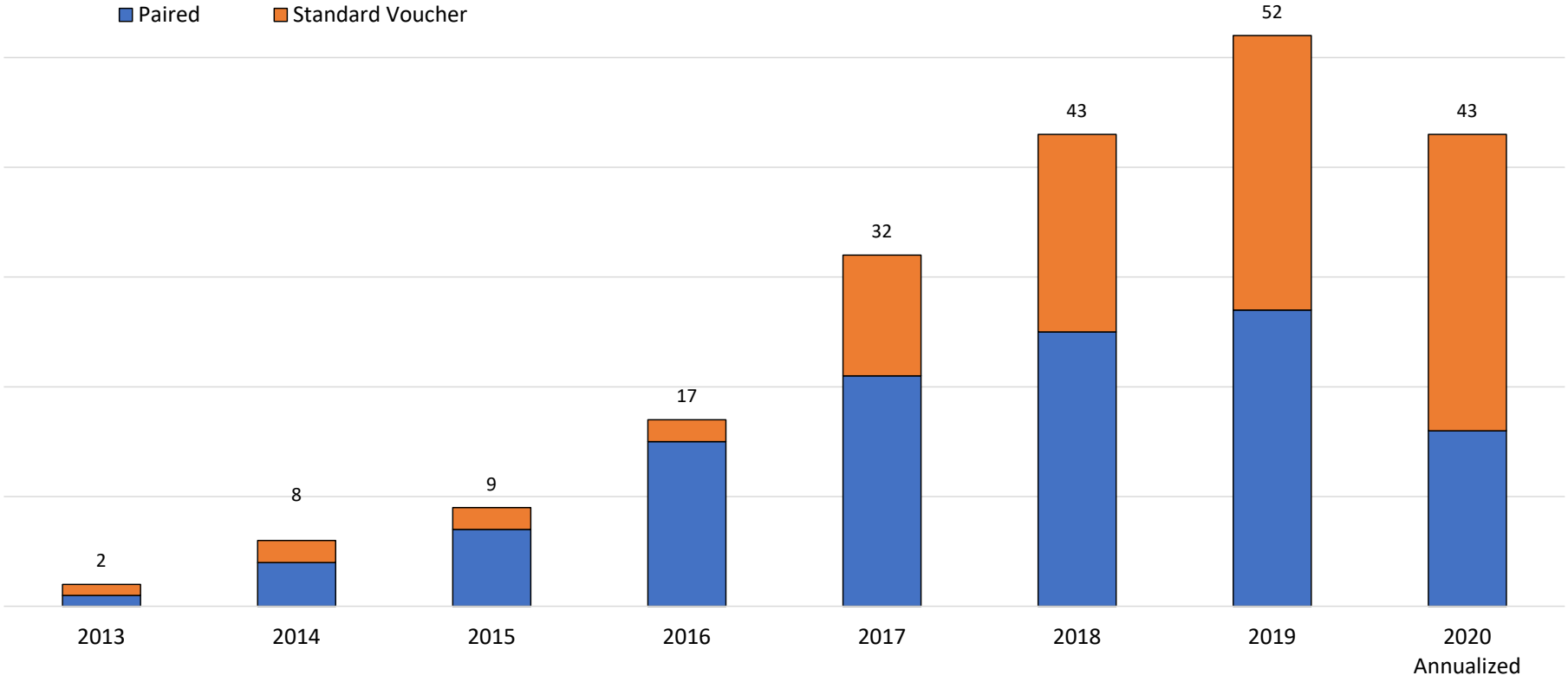
Kidney Donations by Donor Type



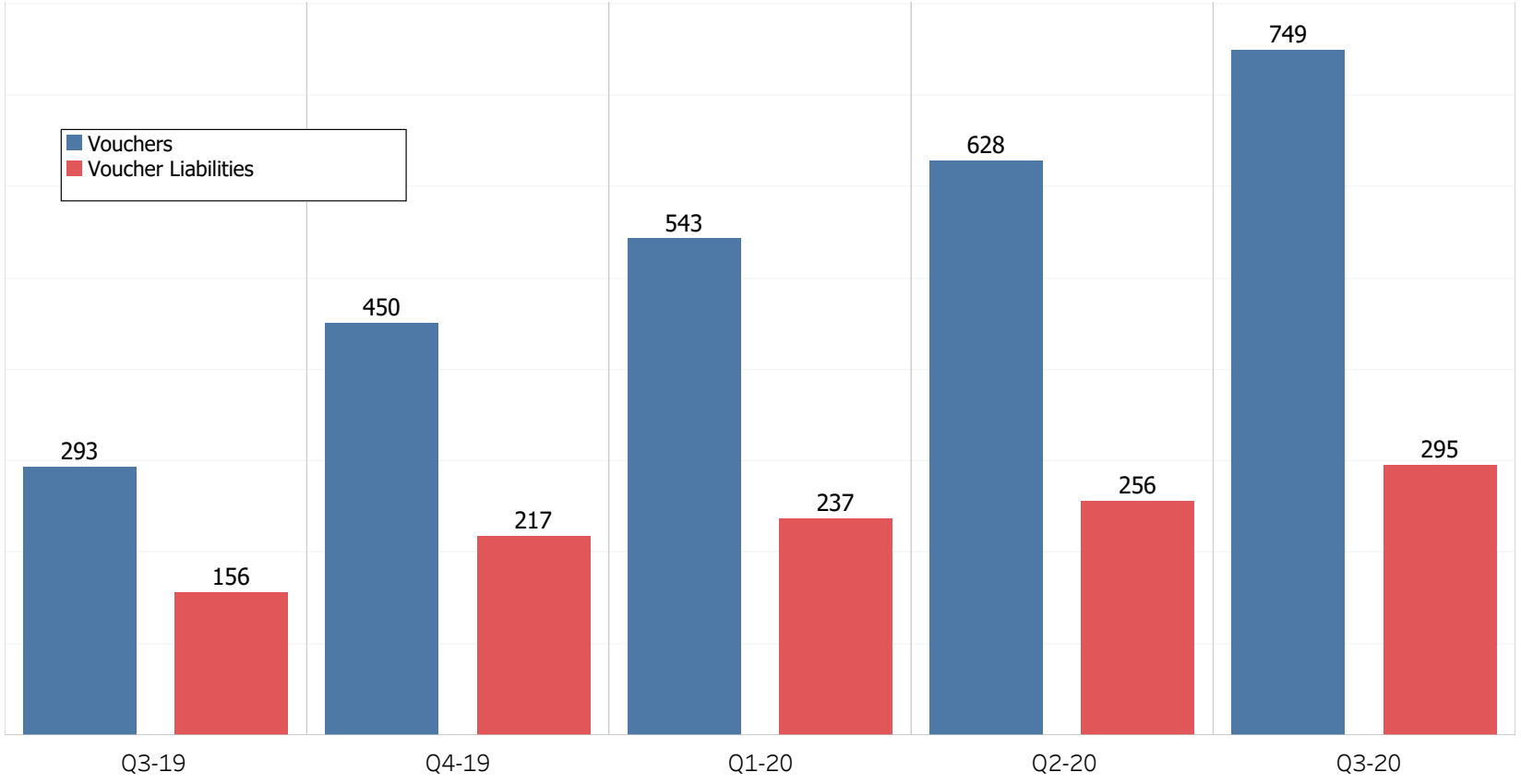
* Restated due to database update/changes affecting calculations

Favorable Blood Type Compatible Donations

Through 9/30/20

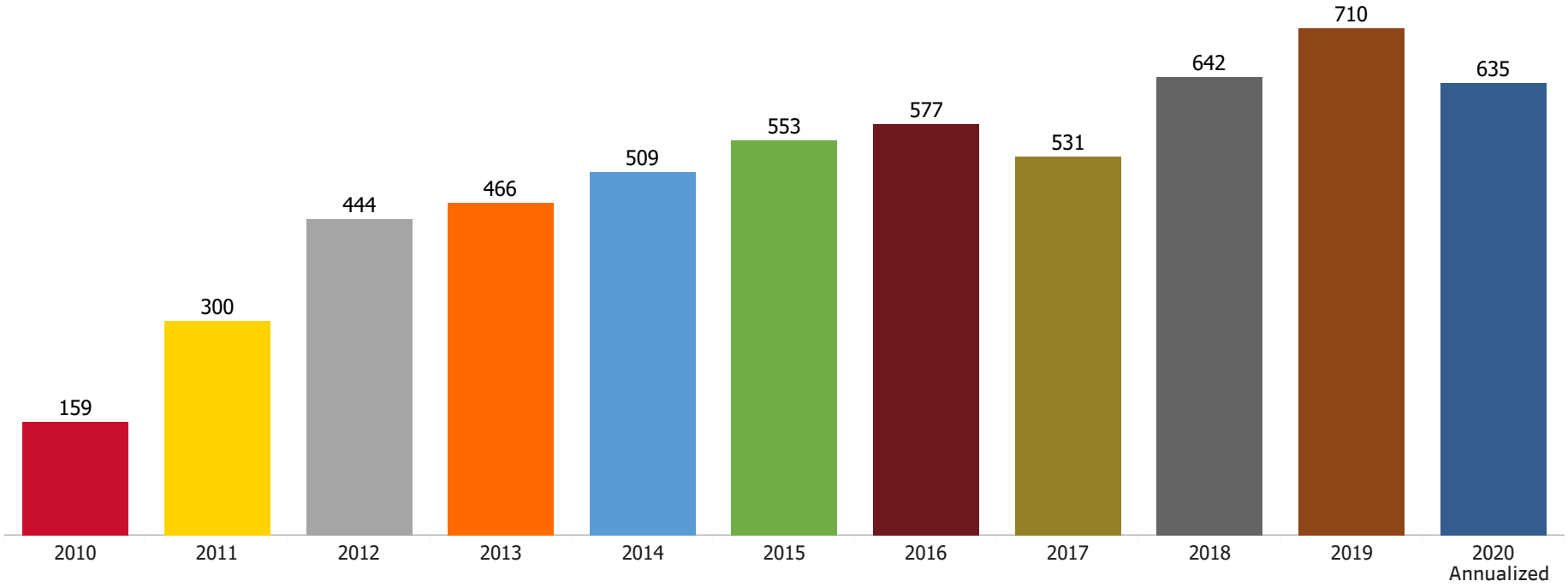


Vouchers Outstanding



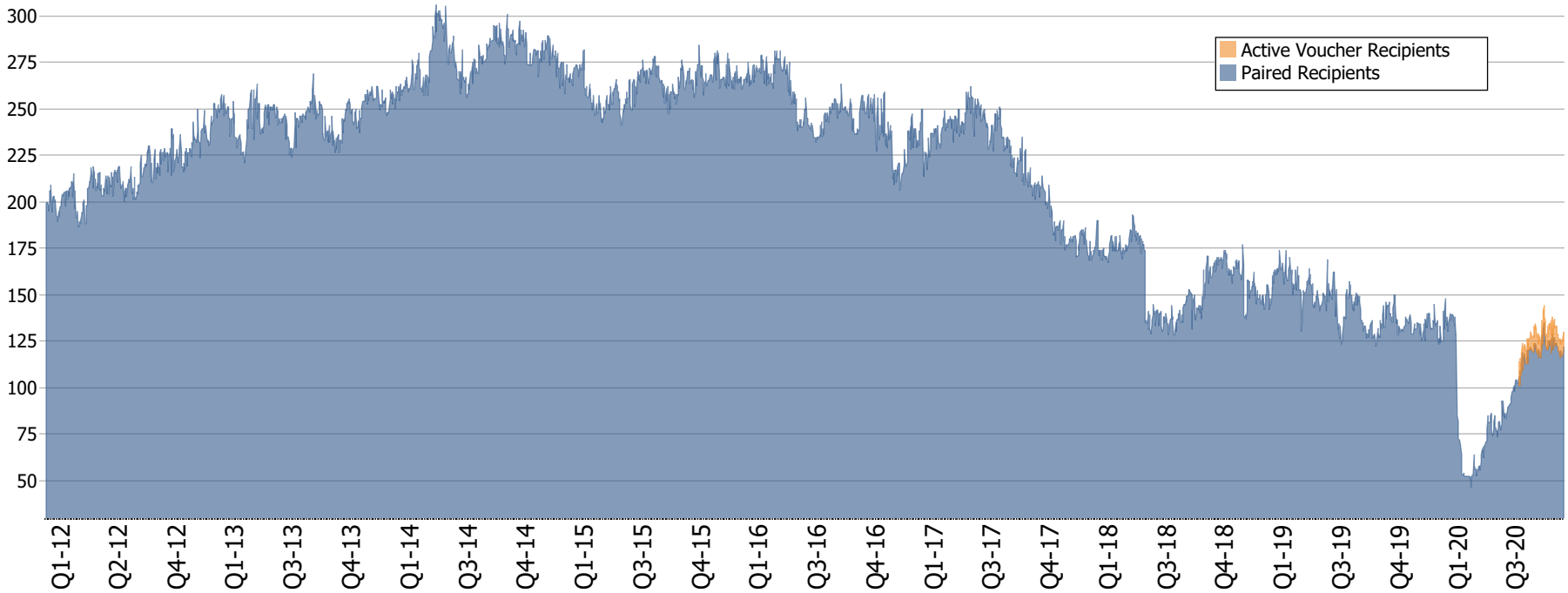
New Exportable KPD Patients

Paired Recipients and Standard Voucher Recipient

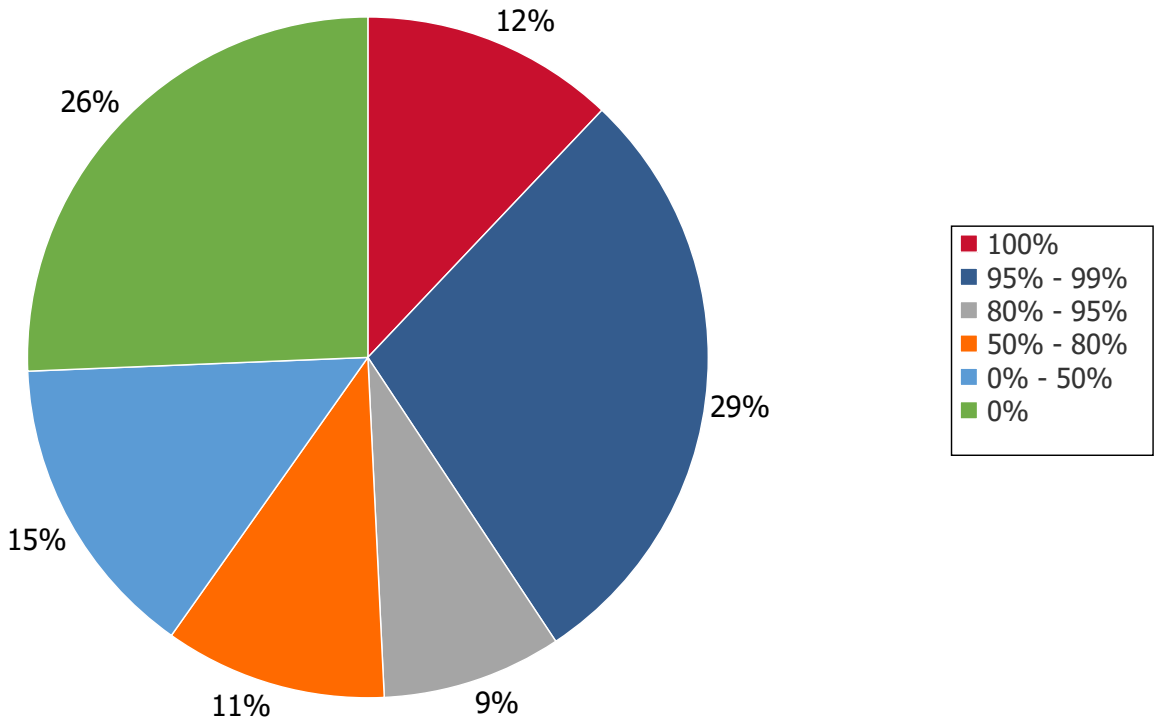


Pool Size

Unmatched Patients



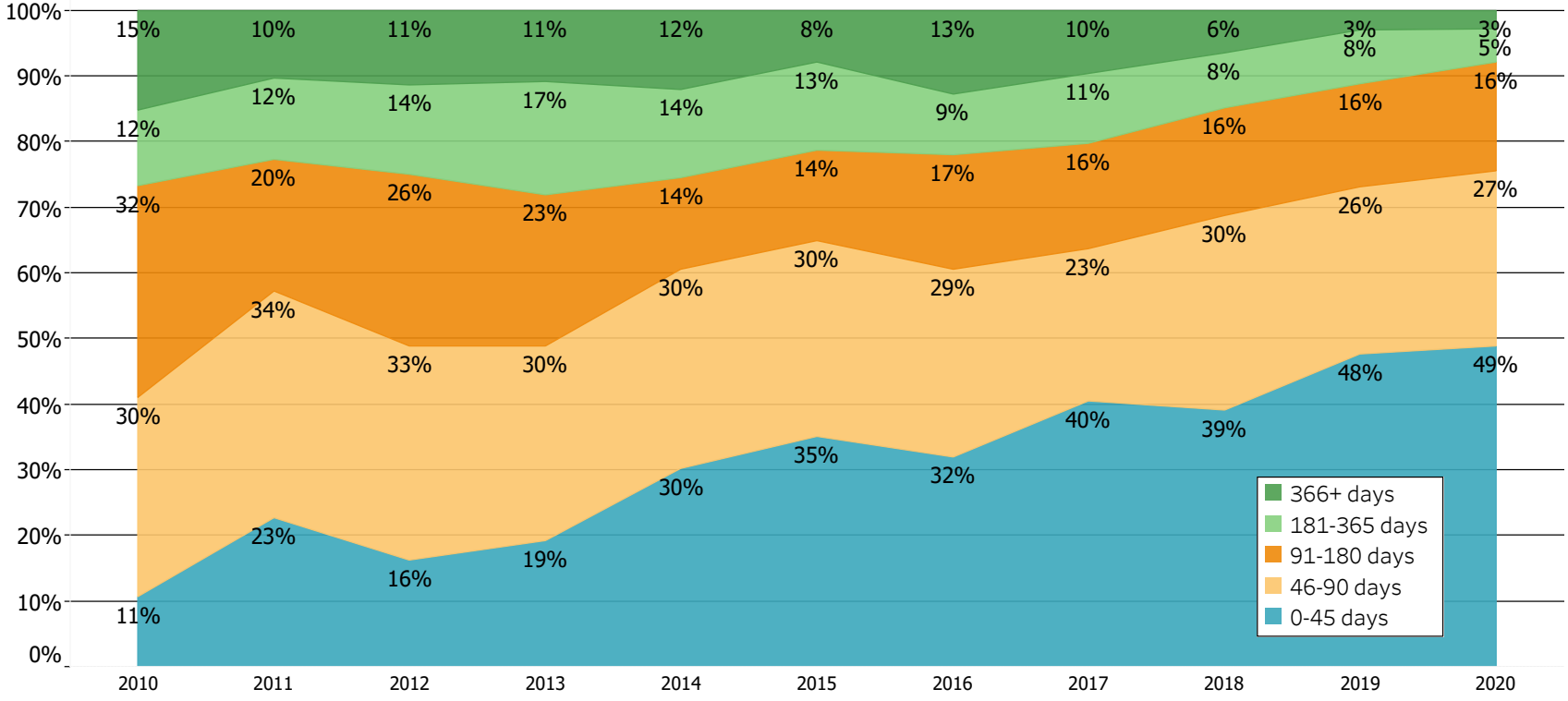
Pool Composition by cPRA



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Wait Time Distribution

From Exportability to Transplant



Updated on 1/22/2021 to exclude waitlist patient

Recipients Waiting > 1 Year

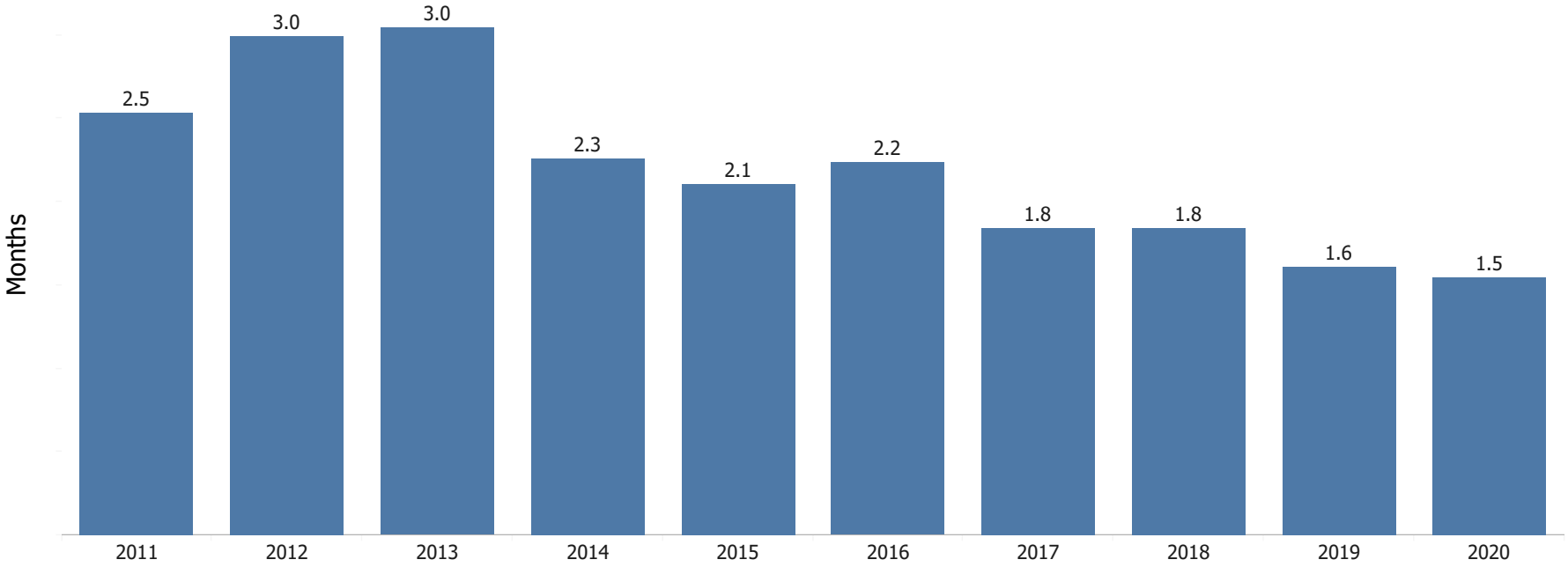
Due to High cPRA

#	Recipient Alias	R-ABO	cPRA	Months Wait	Recipient Type
1	MAB1402991	AB	100.00	72	Voucher
2	GM8784	B	100.00	59	Paired
3	UC06142609	O	99.95	50	Paired
4	J36760809G	O	100.00	39	Paired
5	BOCKJRE	A	99.88	37	Voucher
6	R324744	O	99.98	37	Voucher
7	LANDBRE	O	99.98	36	Paired
8	CR02221971	O	99.93	34	Paired
9	H903961717	O	99.98	34	Paired
10	AH6321	O	100.00	28	Paired
11	SMHFOR	O	100.00	24	Voucher
12	R475238	O	100.00	22	Paired
13	BRBA52375	O	99.95	21	Paired
14	EMIBRK	O	99.98	20	Paired
15	M000464196	O	99.98	18	Paired
16	REYKRI750	B	100.00	17	Paired
17	JS7574655R	AB	100.00	15	Voucher
18	AZSM1992	O	99.31	14	Paired
19	RFLCC30	O	100.00	14	Voucher
20	C903849873	O	100.00	13	Paired
21	MWASH1983	O	99.95	13	Paired
22	PAC3140047	O	100.00	13	Paired

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Transplanted Recipients Median Wait Time

Wait times of Patients Transplanted During prior 12 months

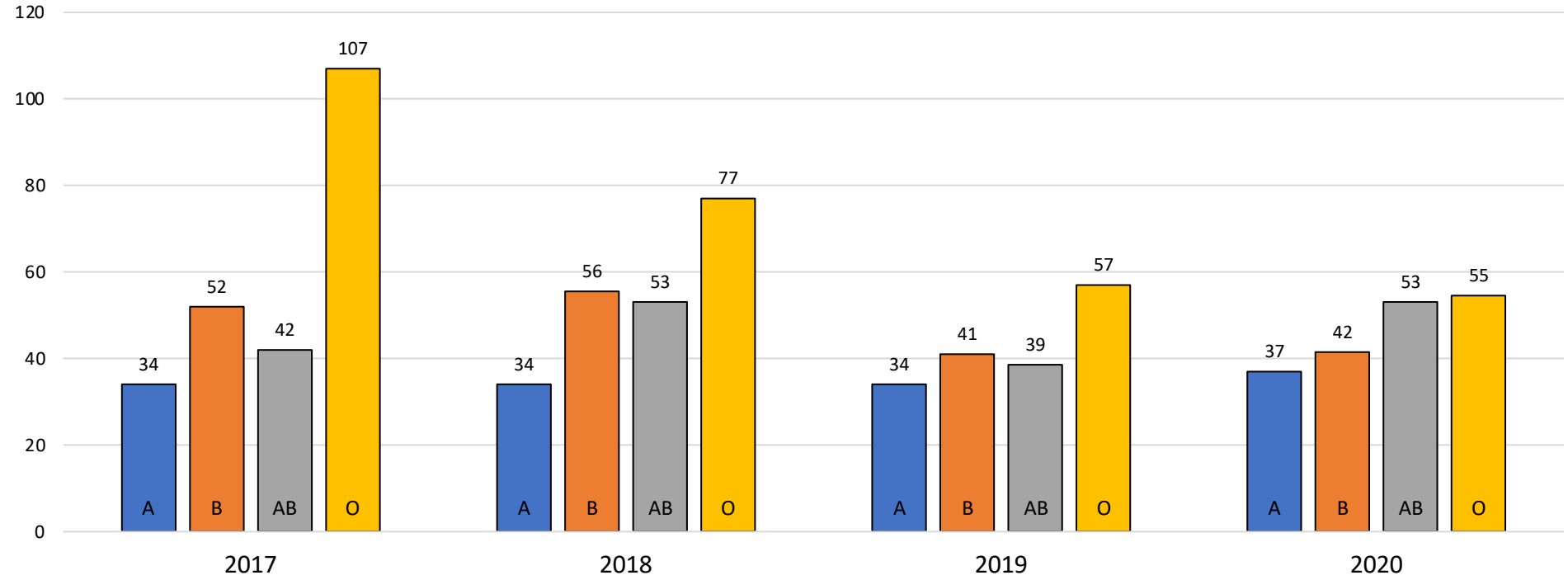


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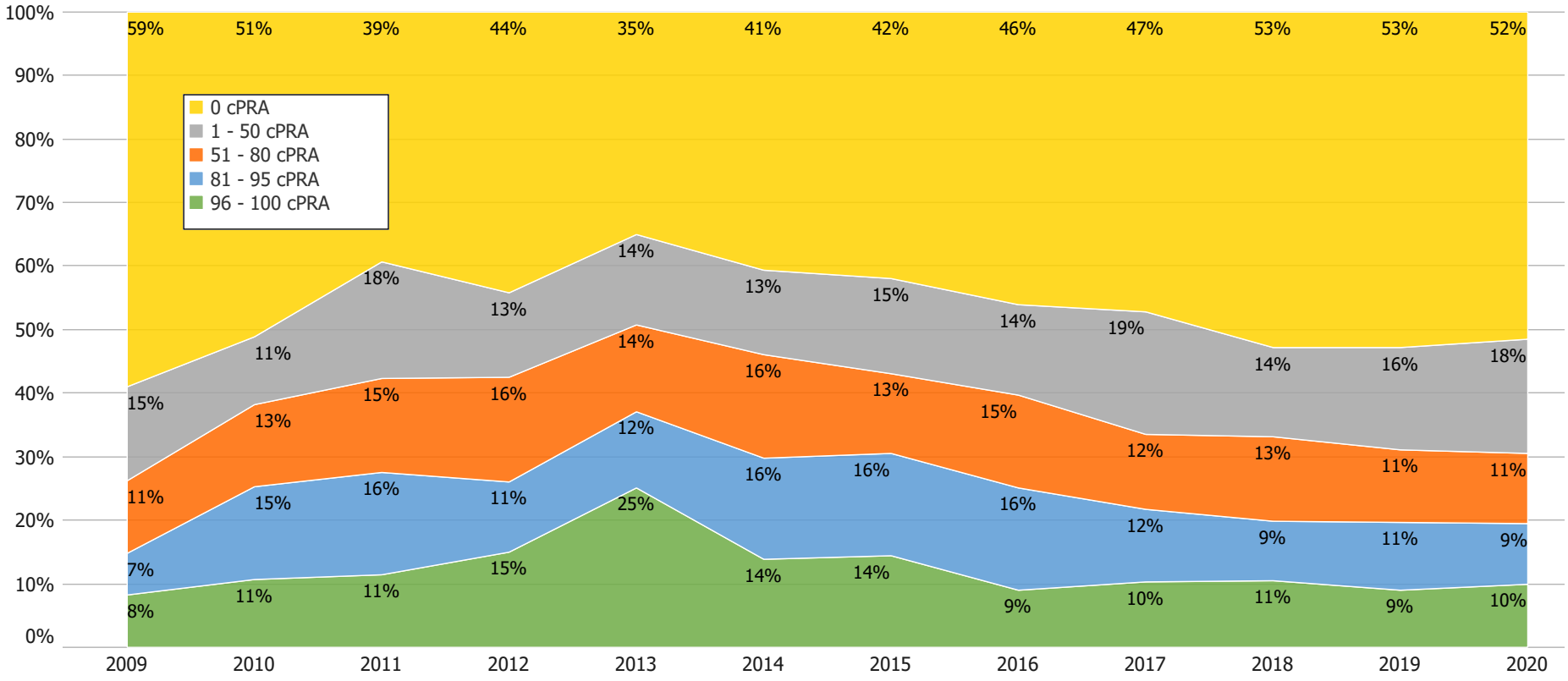
* Restated due to database update/changes affecting calculation

Median Wait in Days by ABO

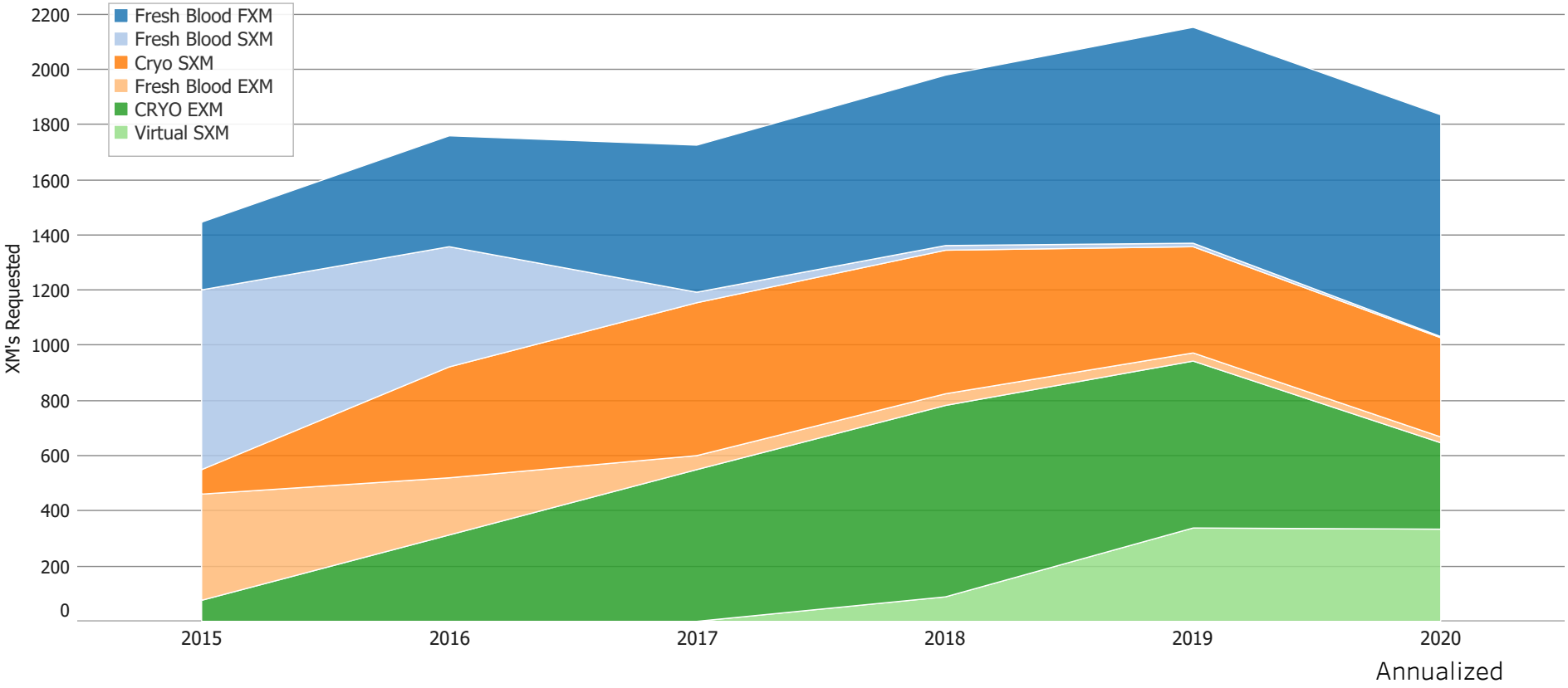
From Exportability to Transplant



Transplanted Recipients by cPRA



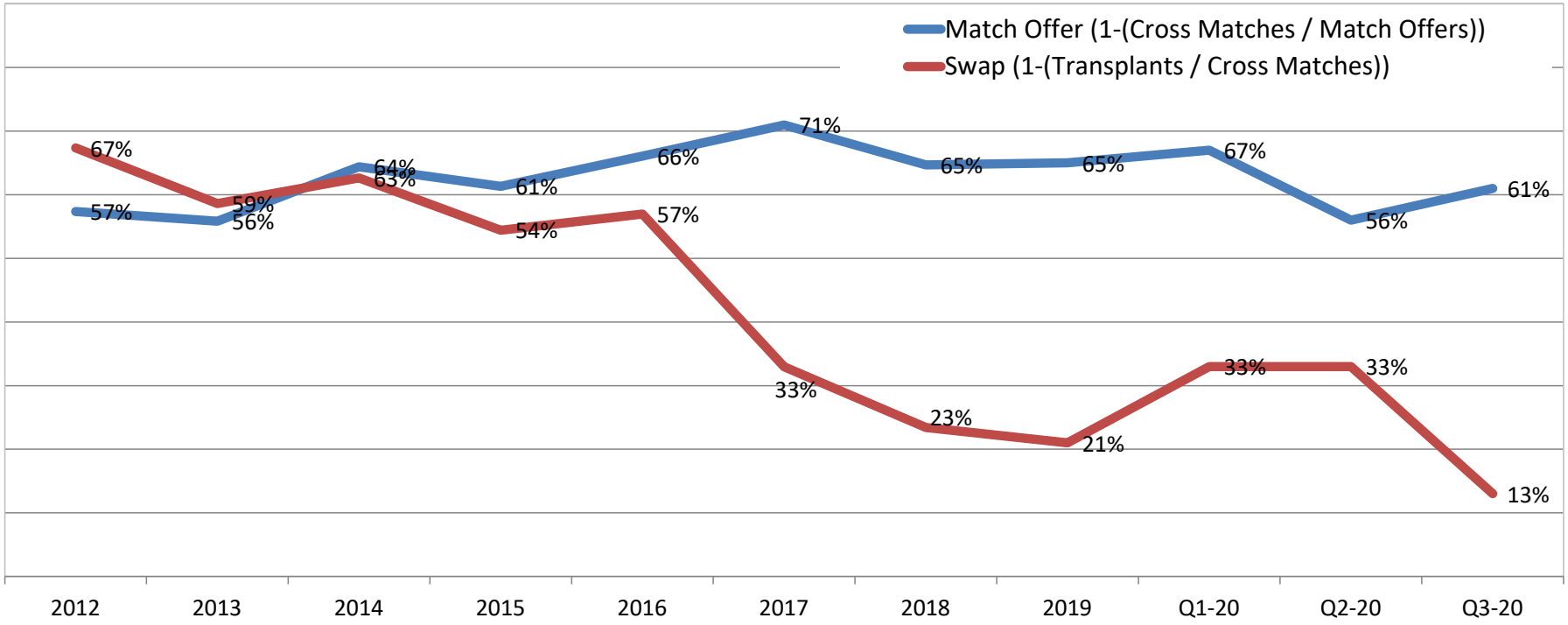
Streamlined Cross Matches Requested



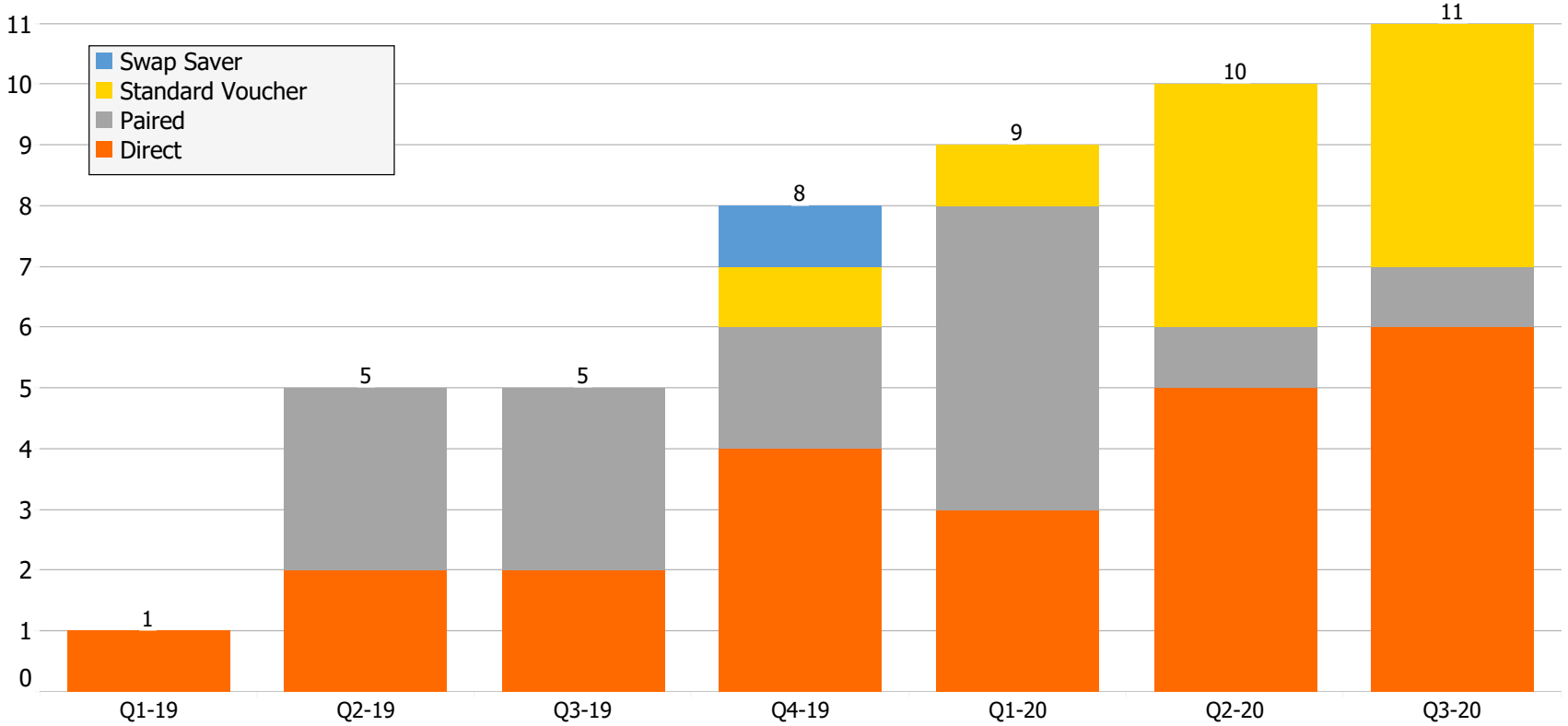
Real Time Swap Failures

#	D-Center	R-Center	Orphaned R-Alias	Paired Donor Alias	Swap #	Paired Donor Donation Date	R- TXP Date	Date Variance	R-ABO	R-cPRA	Reason	Decline Type
1	UTMC	Monte	HDACOS	VIOLKAM	5	01/20/2010	03/25/2010	64	O	87.6%	D Medical Issue	N/A
2	CPMC	UCSF	RM7345B	DK8YT7W	246	06/27/2013	08/21/2013	55	A	22.7%	D Surgery aborted	N/A
3	Penn	RWJ	GREPOS	LAUPOS	254	07/23/2013	10/16/2013	85	B	0.0%	R Surgical decline	Kidney shipped backed
4	Loyola	PorterAH	SMITNI	COOLST	688	10/16/2013	08/14/2014	302	O	44.5%	R Medical issue	N/A
5	OSU	ChristHosp	TC03142797	TC10135173	258	03/11/2014	07/21/2016	863	O	97.0%	R Medical issue	N/A
6	Tampa	Hopkins	BEHIP	ARBRO	797	07/07/2015	08/06/2015	30	A	75.4%	R Surgical decline	Kidney shipped backed
7	PorterAH	ASL	EP1929	EP5866	475	03/17/2016	05/10/2016	54	O	27.8%	R Surgical decline	Kidney never shipped to R Center
8	UNC	Indiana	RBAKE	SBAKE	1059	09/27/2017	03/13/2018	167	O	0.0%	R Surgical decline	Kidney shipped backed
9	Sentara	Loyola	AD2745257	UZ3007394	1379	06/19/2018	07/26/2018	37	B	0.0%	R Medical issue	N/A
10	OSU	Colorado	PC2941652A	CC2793862	1390	07/18/2018	12/20/2018	155	O	0.0%	R Surgical decline	Kidney went to Waitlist
11	Georgetown	UCSF	R118DE	D118DE	1414	08/16/2018	12/06/2018	112	O	0.1%	R Surgical decline	Kidney never shipped to R Center
12	Cornell	Avera	MK00772251	MK01023903	1473	10/17/2018	01/30/2019	105	O	36.5%	R Surgical decline	Kidney shipped backed
13	UCLA	Emory	TW2135304	JH1264559	1547	01/23/2019	04/04/2019	71	O	47.6%	R Surgical decline	Kidney shipped backed
14	Maine	Emory	OF2331513	WF1284159	1887	10/23/2019	12/17/2019	55	A	31.8%	R Surgical decline	Kidney never shipped to R Center
15	UNC	CinciChildrens	HM11376290	KB11817752	2182	08/26/2020	10/28/2020	63	A	0.00%	D Medical Issue	N/A

Failure Rates

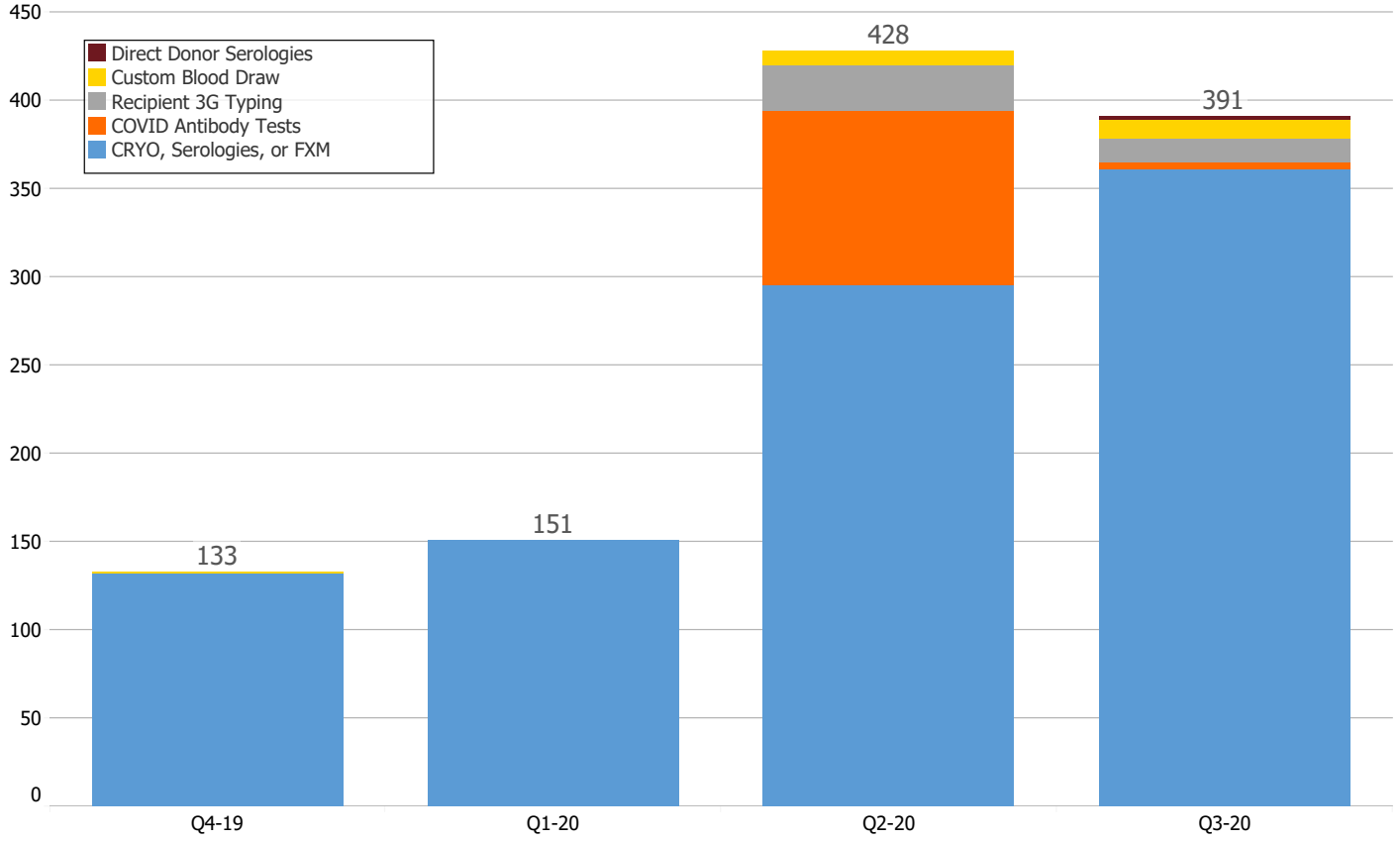


Remote Donations by Donor Type



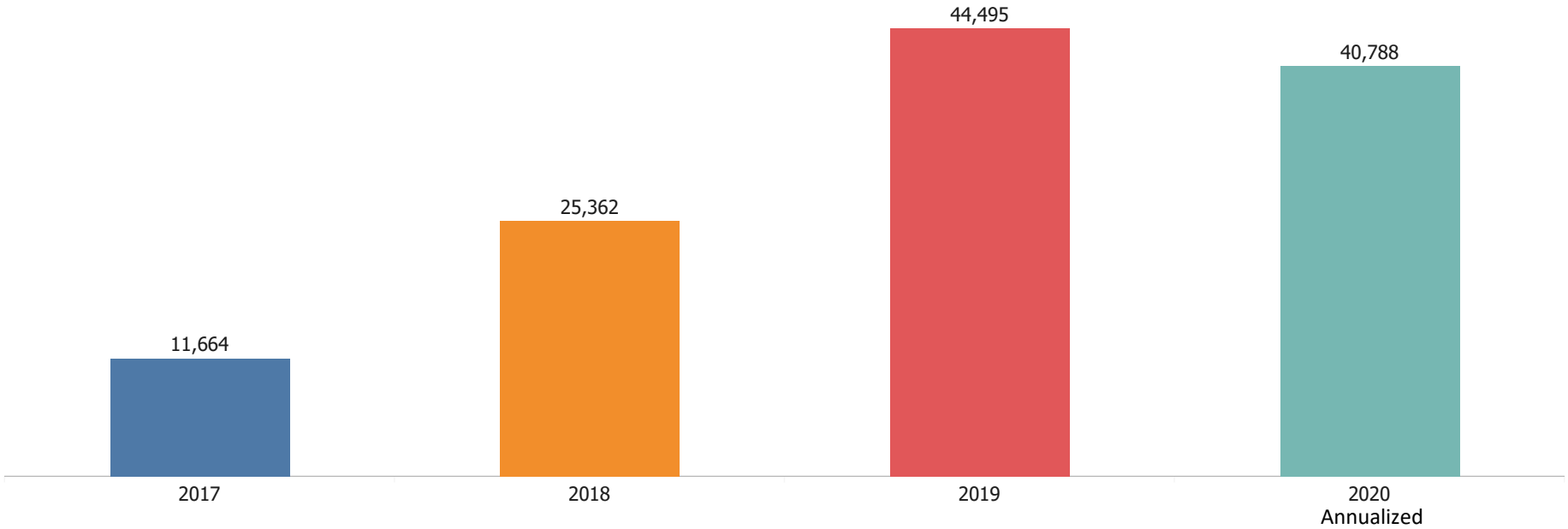
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Home Blood Draw Requests



Donor Contacts

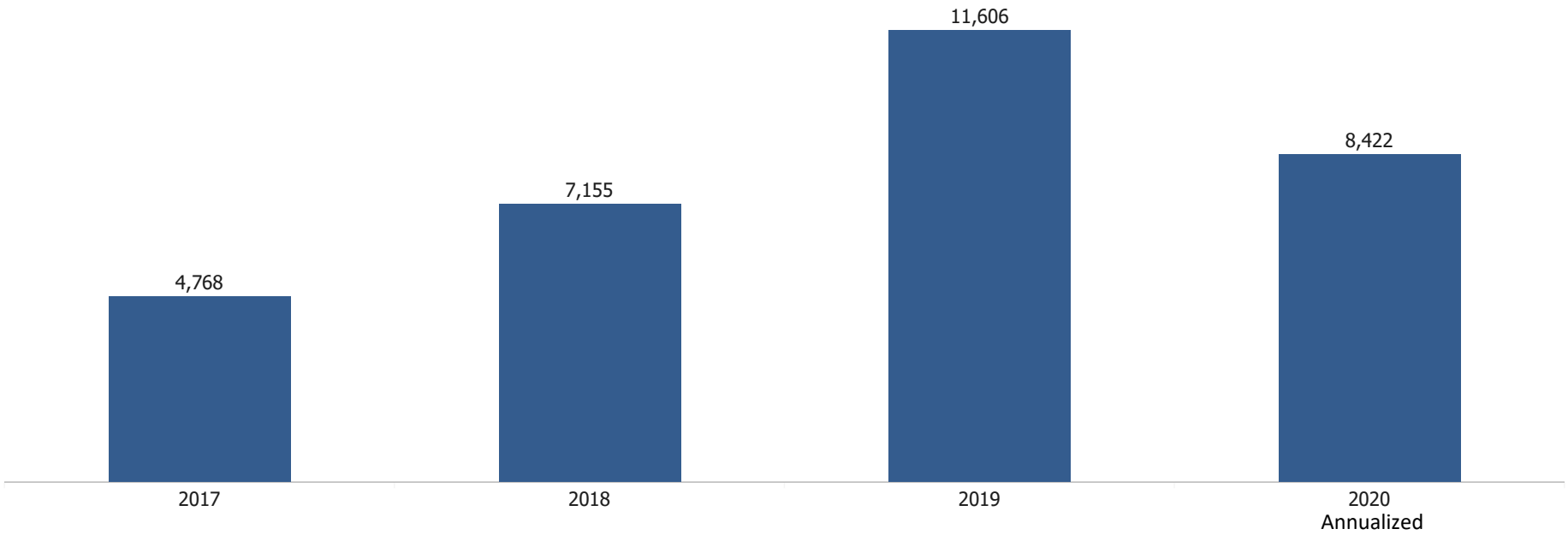
Across All DASH Platforms



As of 11/10/2020 10:46:20
*Restated due to database update/changes affecting calculations

Good Samaritan Donor Contacts

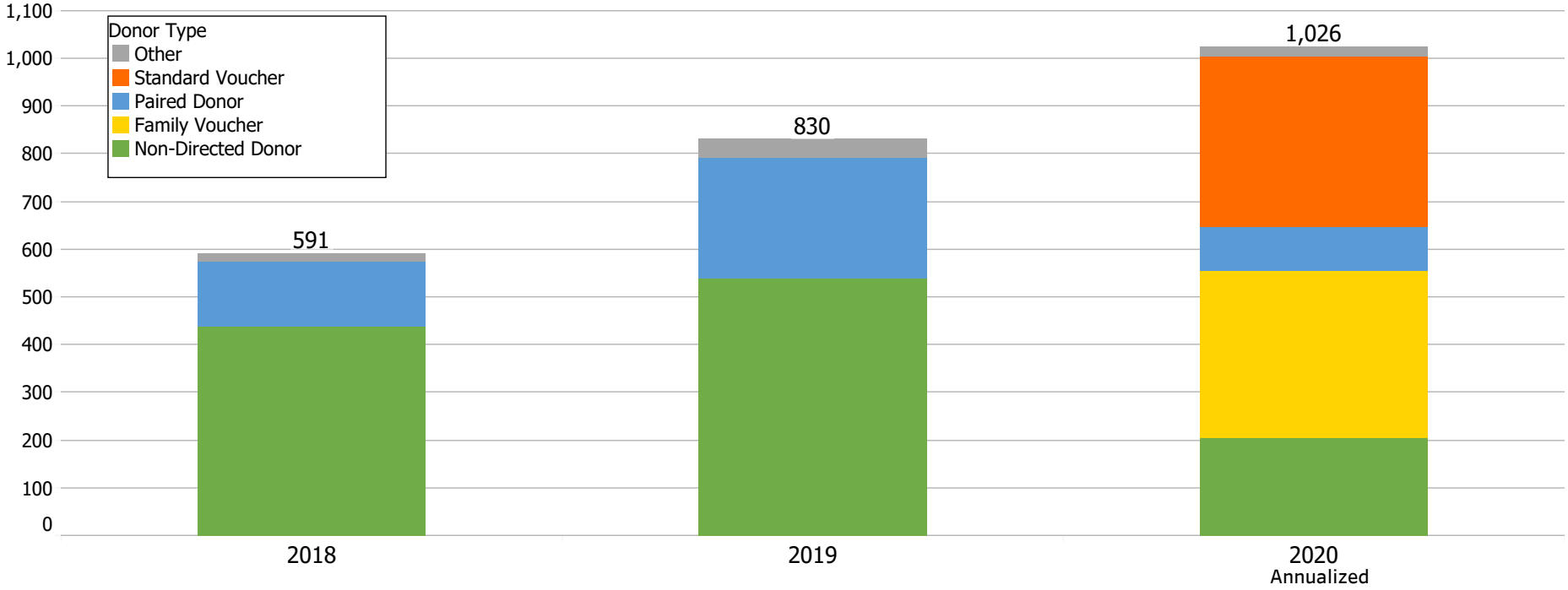
Across All DASH Platforms



As of 11/10/2020 10:46:20
Good Samaritan donors include NDD's and Family Voucher Donors

NKR & DCN Donor Referrals

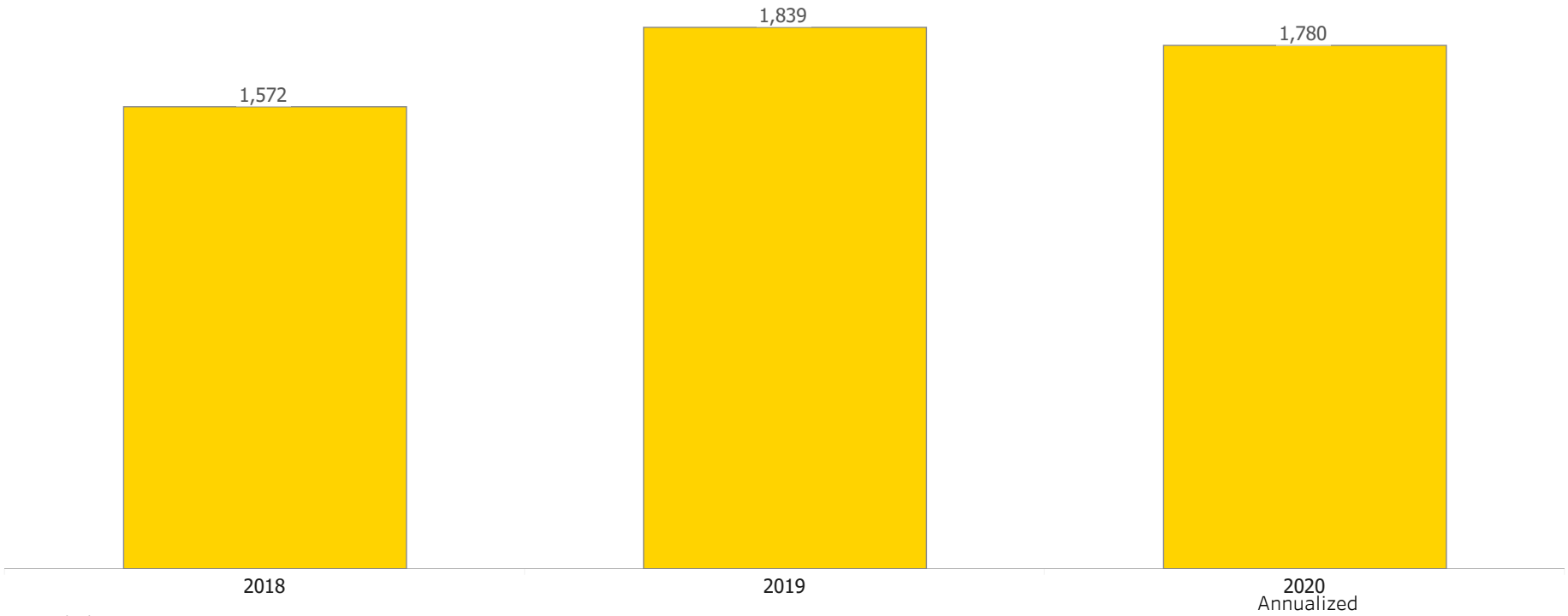
Referred to NKR Member Centers



As of 11/15/2020 14:28:58

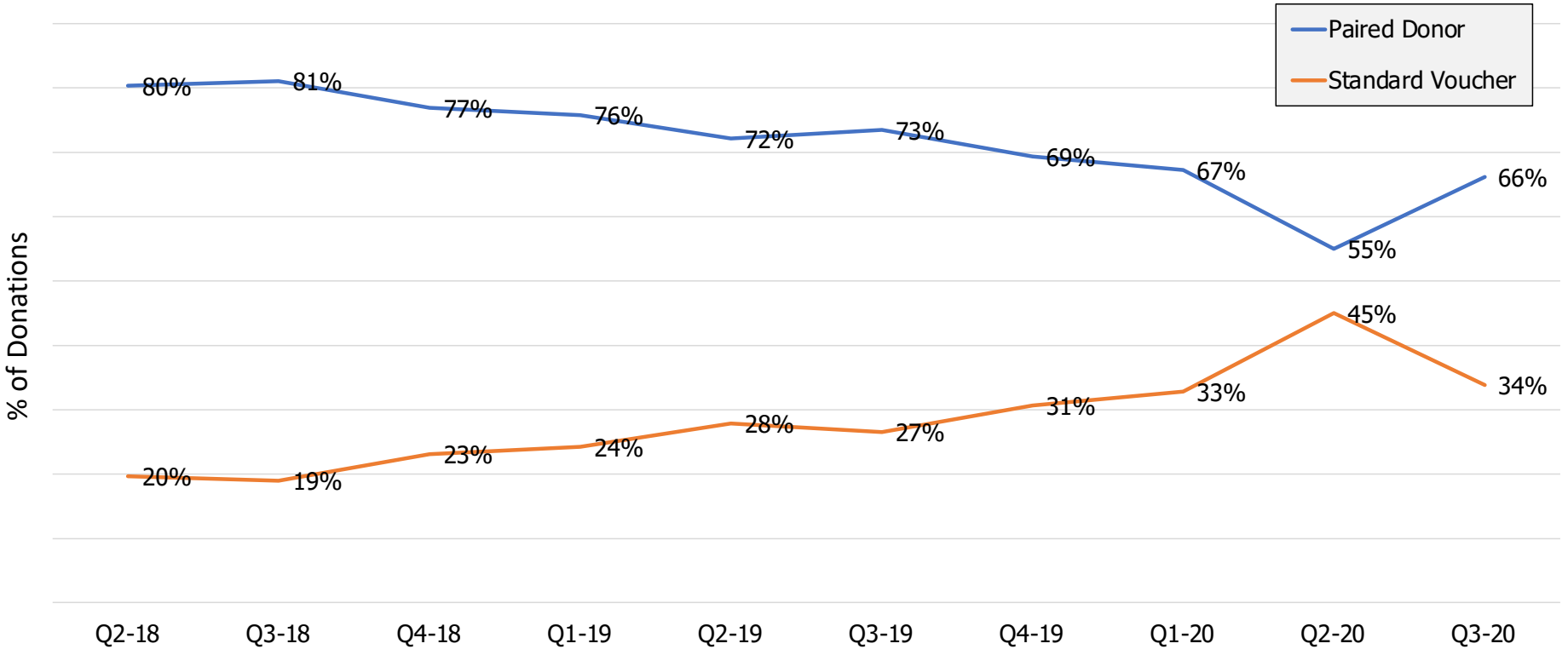
Pre-Workup Lab Results Uploaded

Across All DASH Platforms



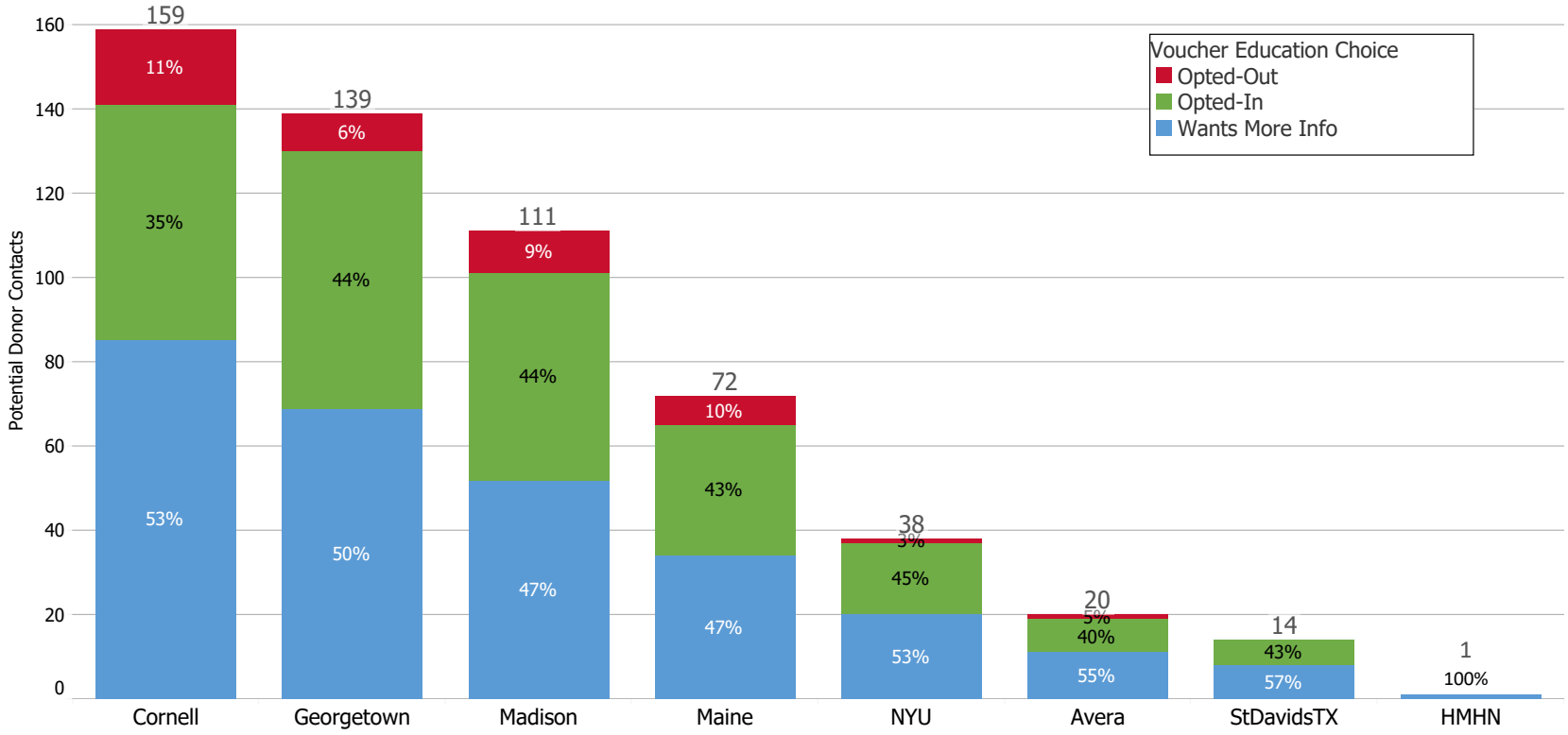
As of 11/10/2020 10:46:20

Uncoupling Trend



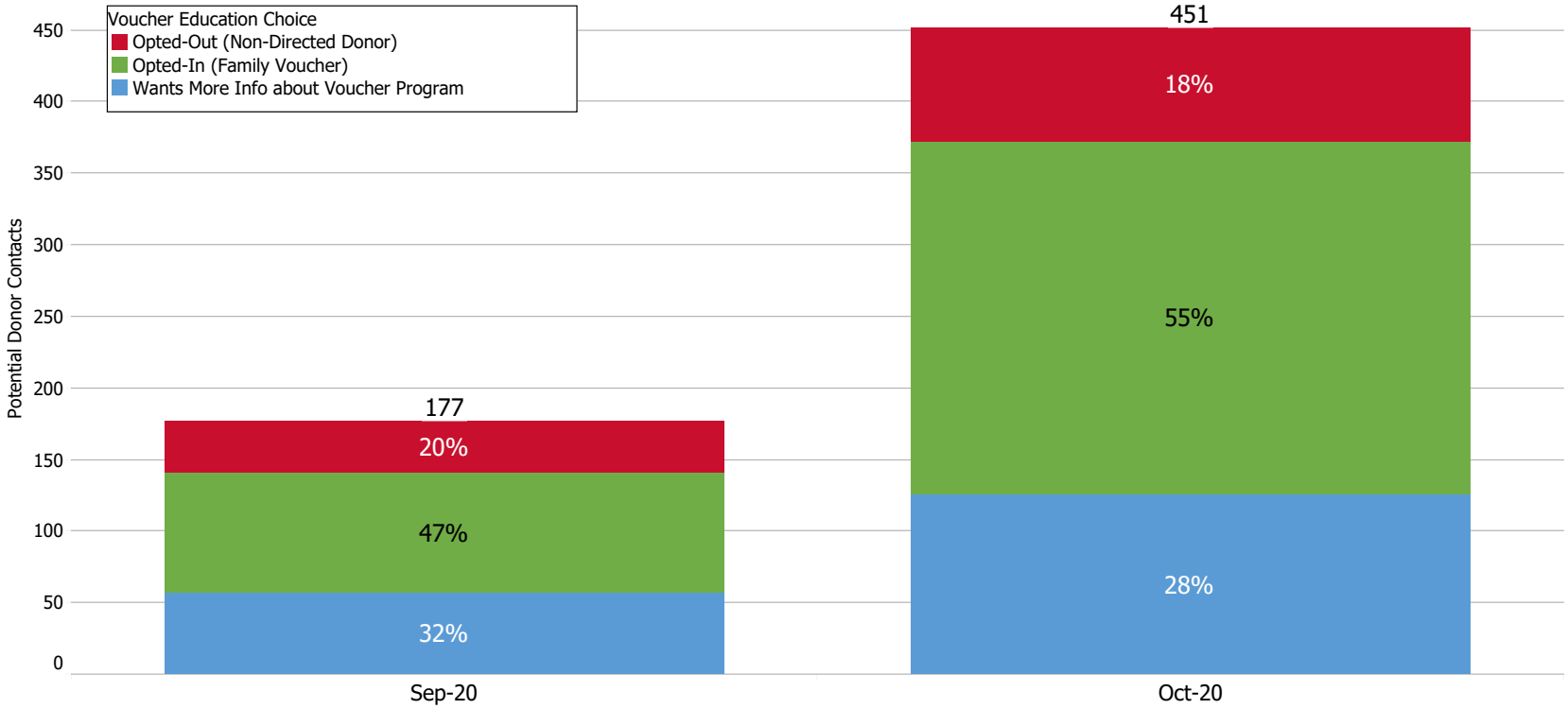
Voucher Education Module (VEM)

9/16 - 10/31



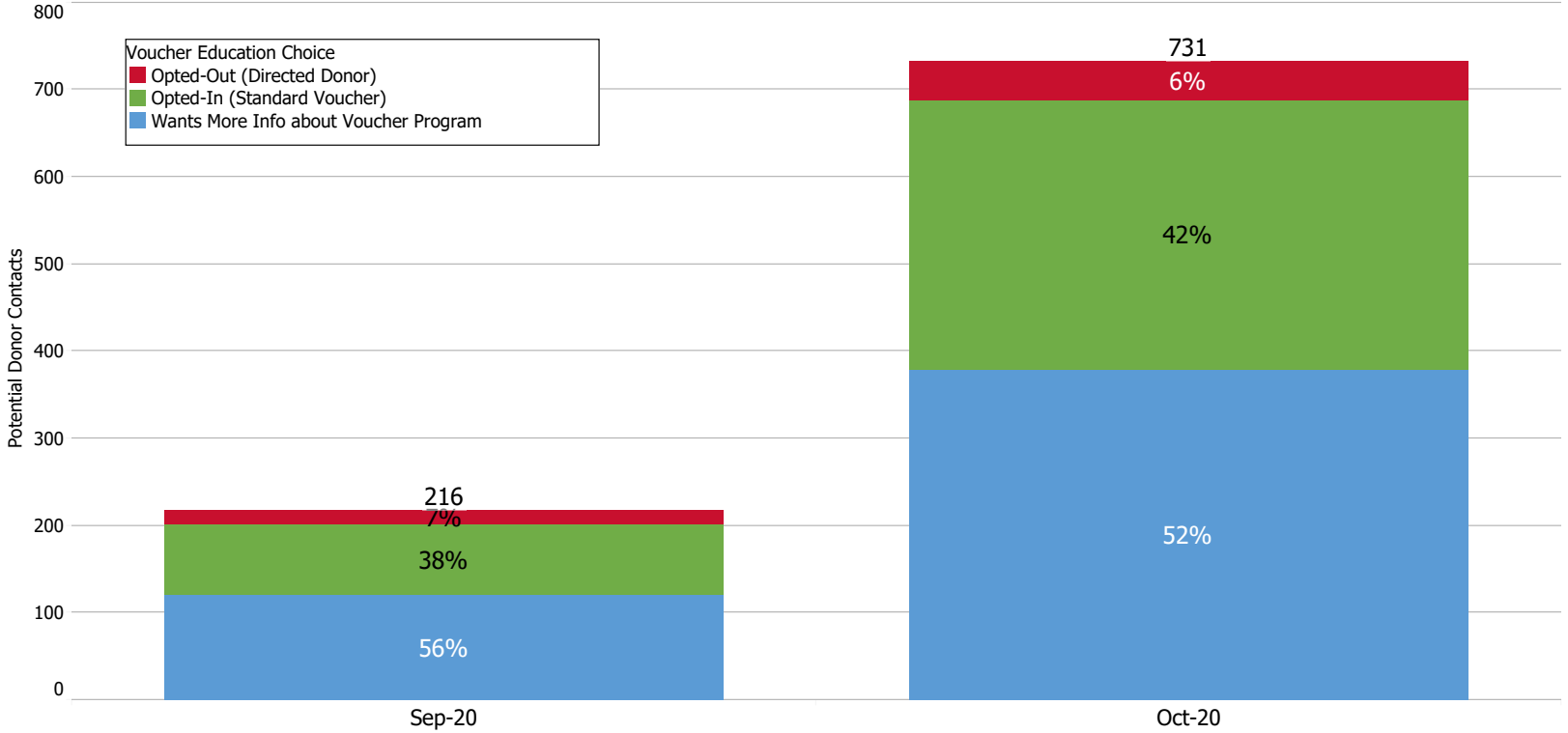
VEM Good Samaritan Donor Candidates

Across NKR, DCN, Microsite, and PL DASH
9/16 - 10/31



VEM Donor Candidates Who Know The Recipient

Across NKR, DCN, Microsite, and PL DASH
9/16 - 10/31



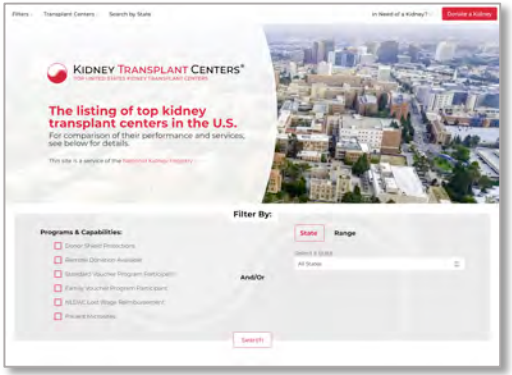
Educational Resources



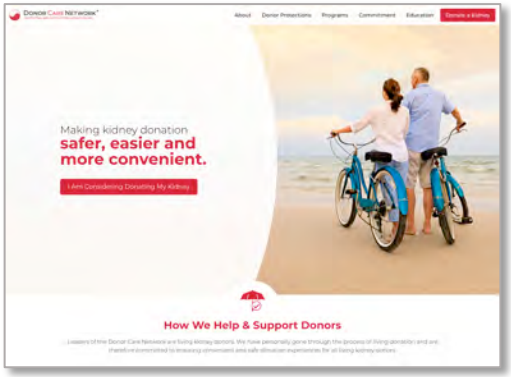
kidneyregistry.org



donor-shield.org



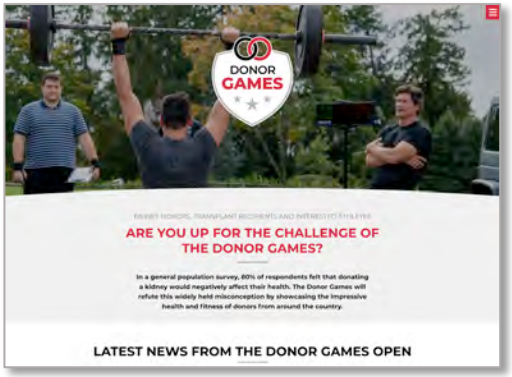
kidneytransplantcenters.org



donorcarenet.org



kidneyforlife.org



livingdonorgames.org