

NATIONAL KIDNEY REGISTRY®

FACILITATING LIVING DONOR TRANSPLANTS



Quarterly Report

Q4 Results 2020

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Message from the Founder & CEO



2020 was a challenging year, with U.S. living donor transplants down 24% and NKR facilitated transplants down 9%. The NKR returned to a growth footing in the second half of 2020, facilitating 423 transplants, compared to 418 transplants facilitated during the same period of 2019.

The Kidney for Life (KFL) initiative continues to accelerate, with approximately 20 centers now participating. These KFL centers are being referred patients who have contacted the NKR seeking an opportunity for improved transplant outcomes and lower immunosuppression. To date, the KFL initiative has facilitated 21 low eplet mismatched donor-recipient matches/transplants, 6 of which were a zero eplet mismatch. The NKR will continue to provide cheek swab-based third generation tissue typing at no cost for all KFL participating centers in 2021.

The Champion Microsite program continued its rapid growth in 2020 and surpassed the 500 microsite milestone shortly after Thanksgiving. The microsite program has been further enhanced by the addition of an expert coach capability and the launch of patient educational videos. We continue to provide waitlist mass mailing services to invite patients to start a microsite at no cost to transplant centers, achieving a 10% conversion rate on most of these mass mailings. Since the program's inception, approximately 10% of patients with an active microsite received a living donor transplant within one year of microsite activation. Our goal is to increase the microsite success rate to at least 30% through the addition of the expert coaching service and patient educational videos.

Living donors supported and protected by our Donor Shield program increased by 14% even as living donor transplant volume fell. This growth was primarily driven by an increase in the number of centers that are supporting and protecting all living kidney donors at their center through the Direct Donor Shield program. Remote donation more than doubled in 2020 as more donors elected to avoid traveling due to the pandemic. The remote donation program now fully supports remote standard voucher donation, remote paired donation and remote direct donation.

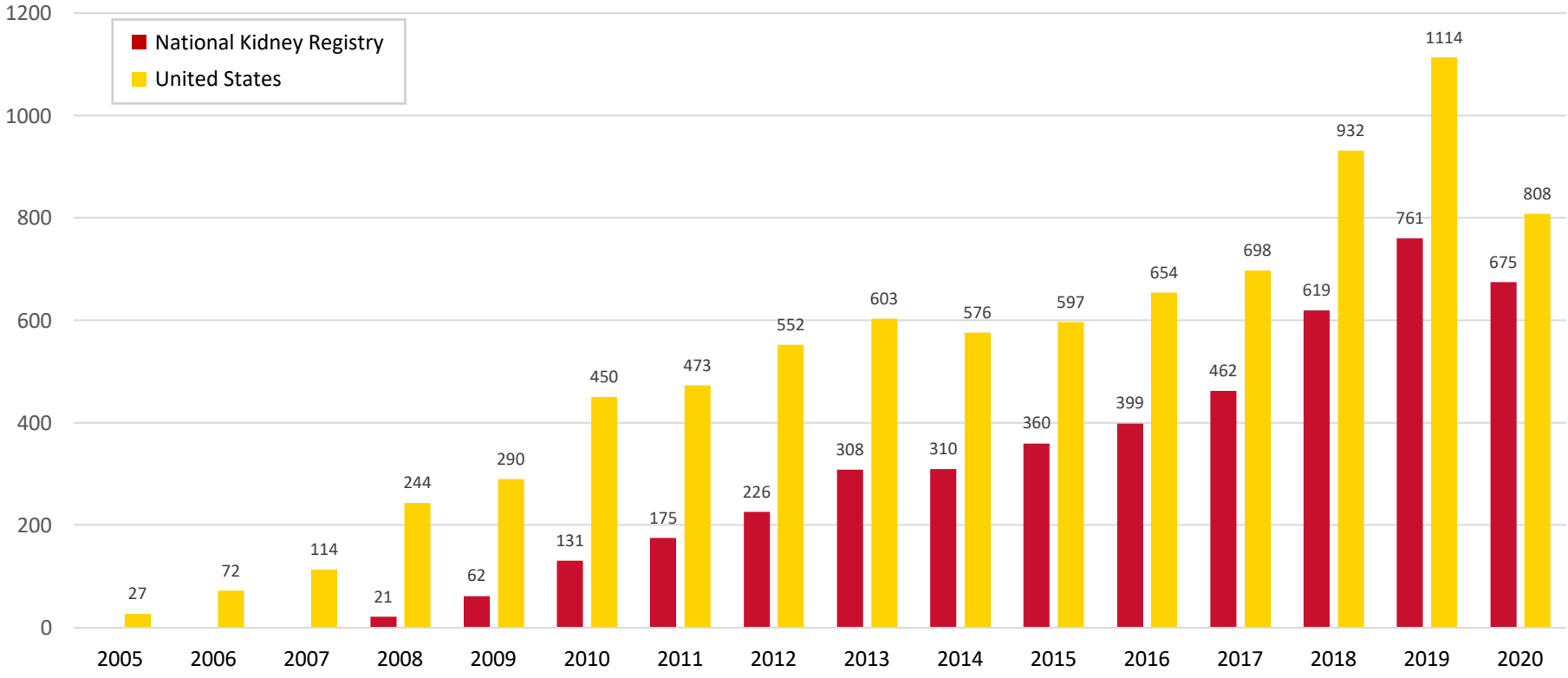
Thank you for your support and keep up the great work.

Sincerely,



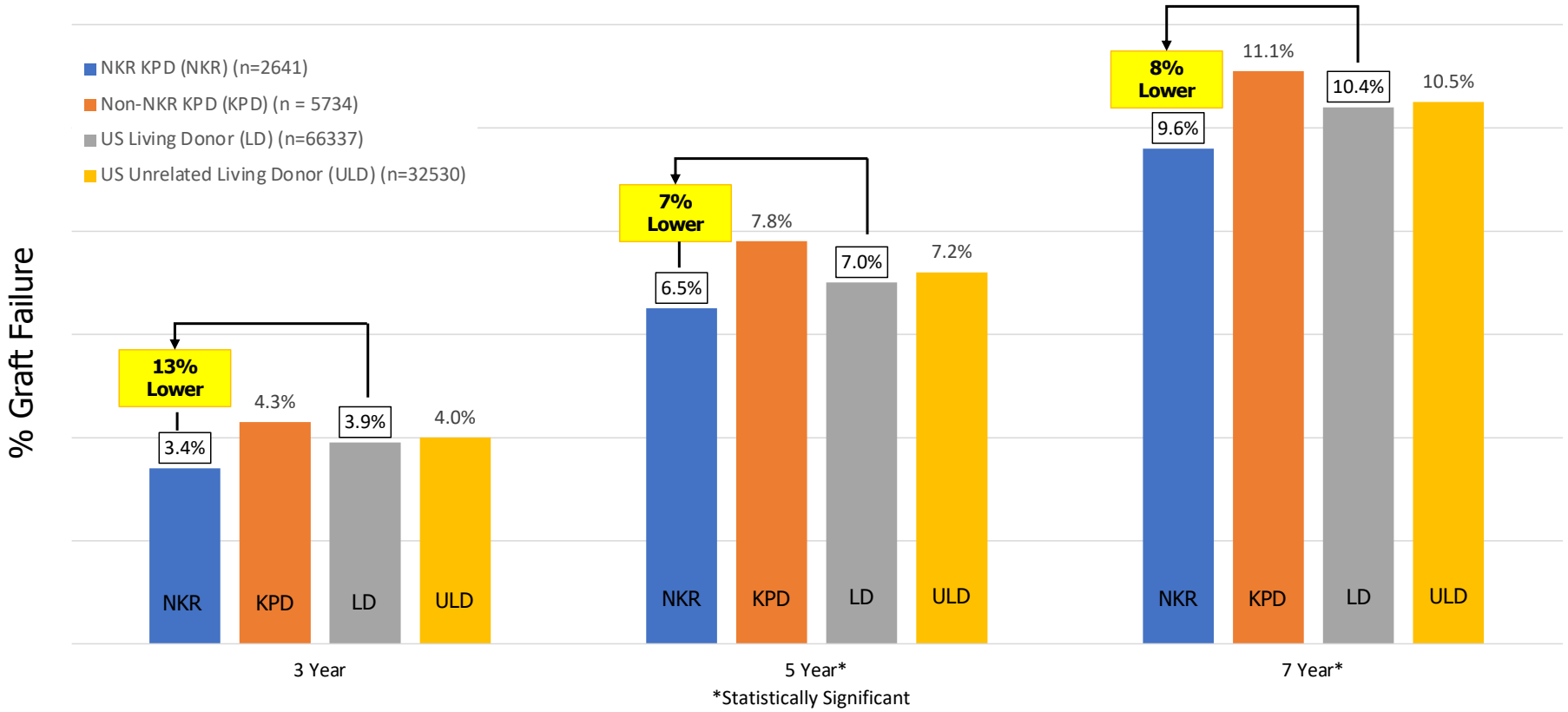
Garet Hil
Founder & CEO
National Kidney Registry

National Kidney Registry Leading US KPD Growth



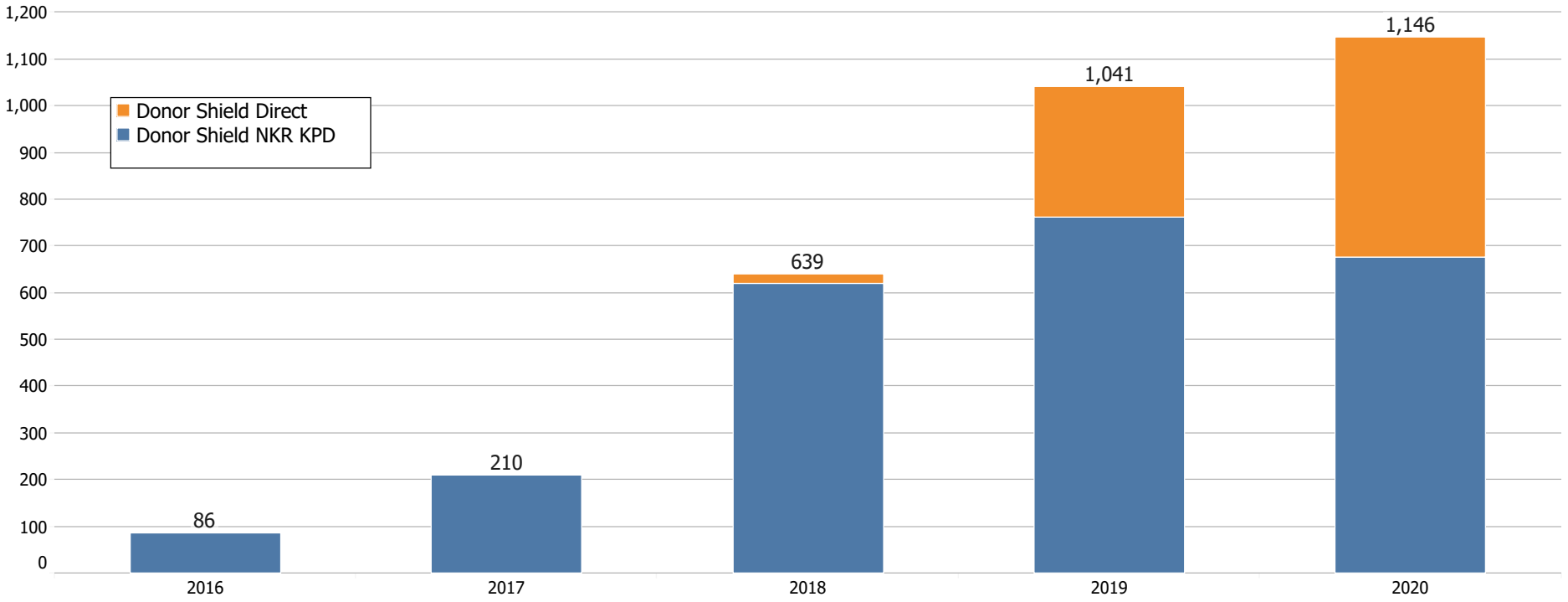
*Organ Procurement and Transplantation Network: https://optn.transplant.hrsa.gov/ Accessed 1/26/21 - All US data may not have been available on this day

Death Censored Graft Failure Comparisons



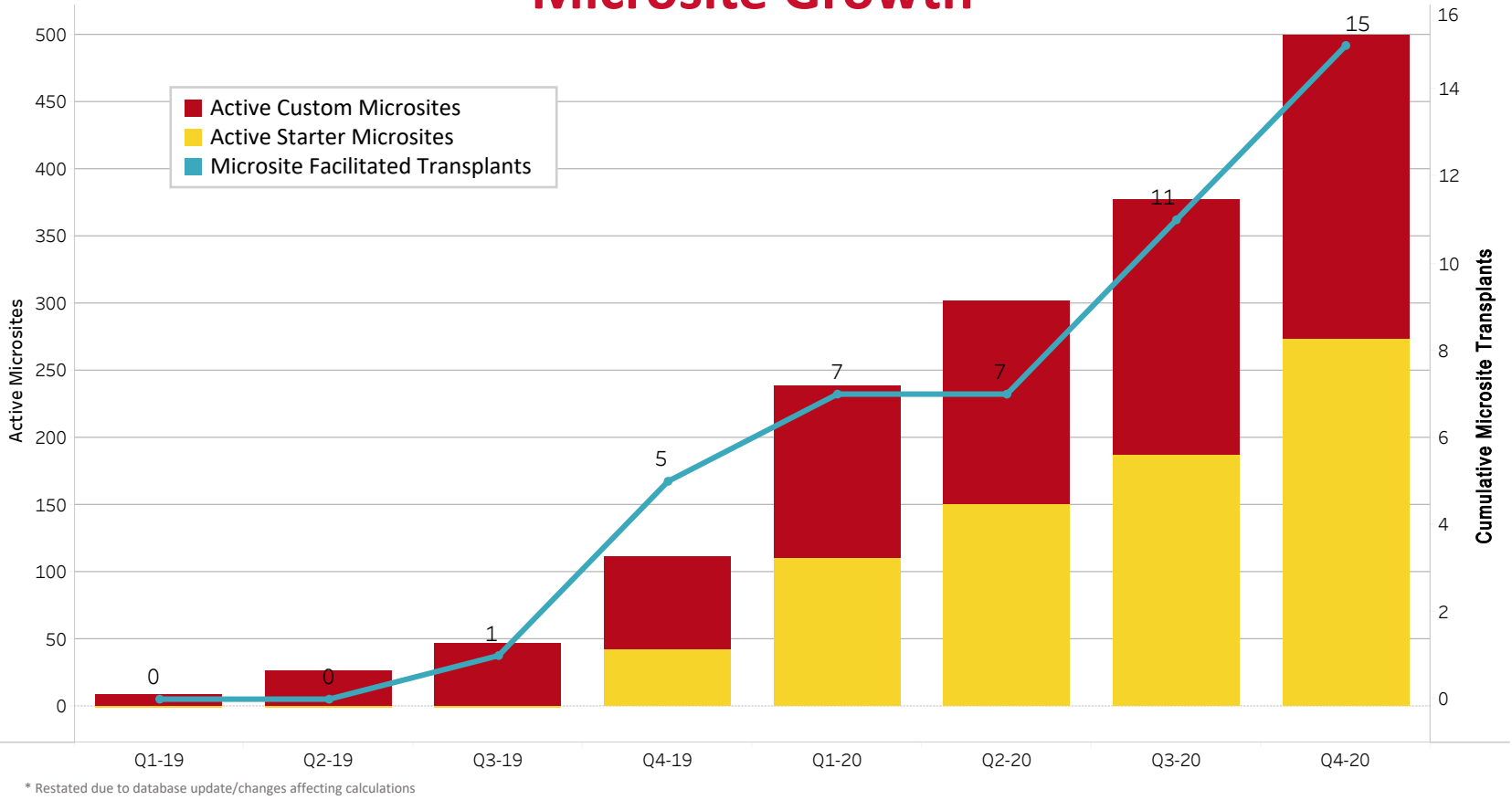
*Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery *Not including Wait List patients (WLP); Kaplan-Meier GS Rates for Transplants Performed: 02/2008-12/2020 with follow-up through 12/31/2020*
https://www.srtr.org / SRTR data as of January 2021

Donors Supported and Protected



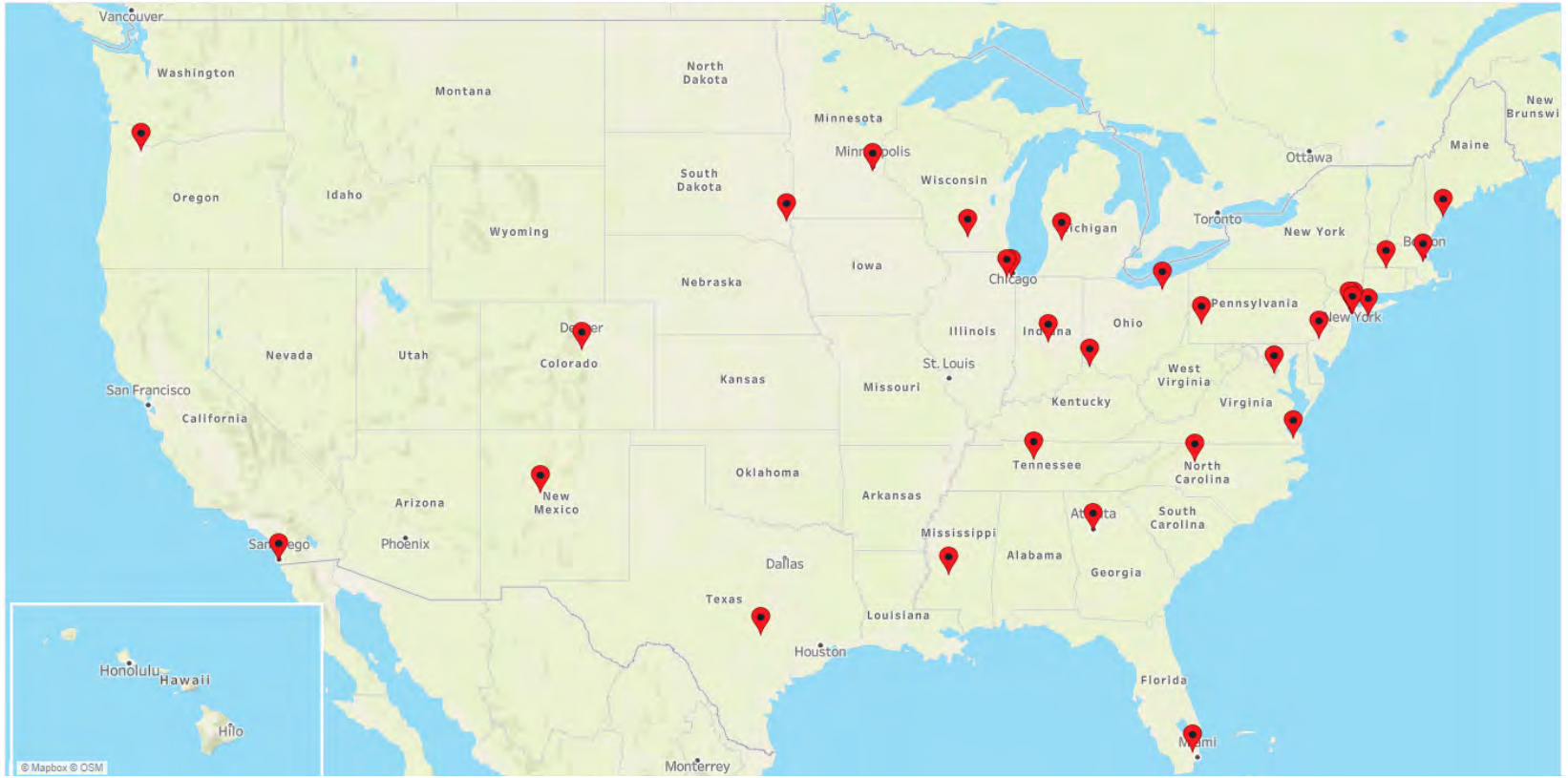
As of 1/11/2021 17:46:53
*Restated due to database update/changes affecting calculations
www.donor-shield.org

Microsite Growth



* Restated due to database update/changes affecting calculations

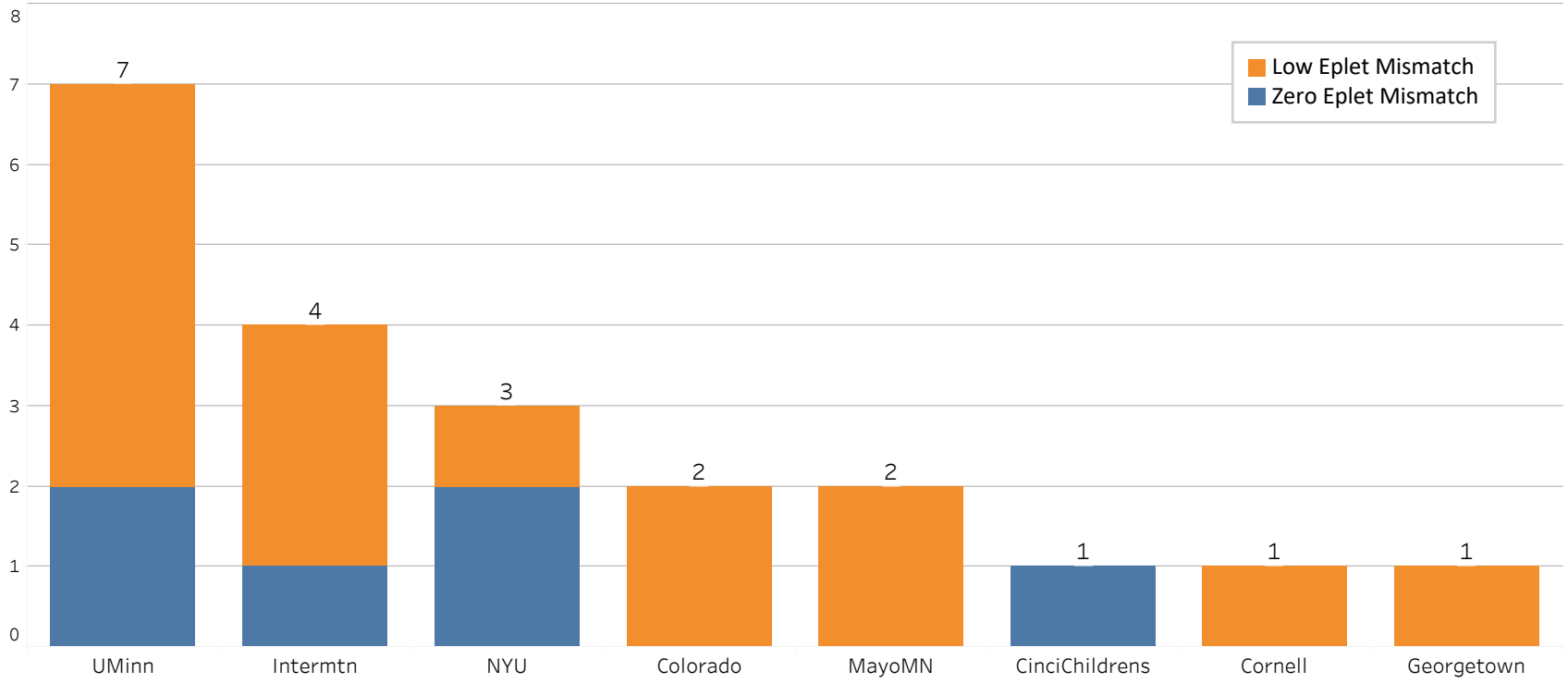
Microsite Centers



As of 1/11/2021 12:26:28

Successful Kidney for Life Matches

Patients Matched and/or Transplanted by Center



As of 1/18/2021 10:18:55

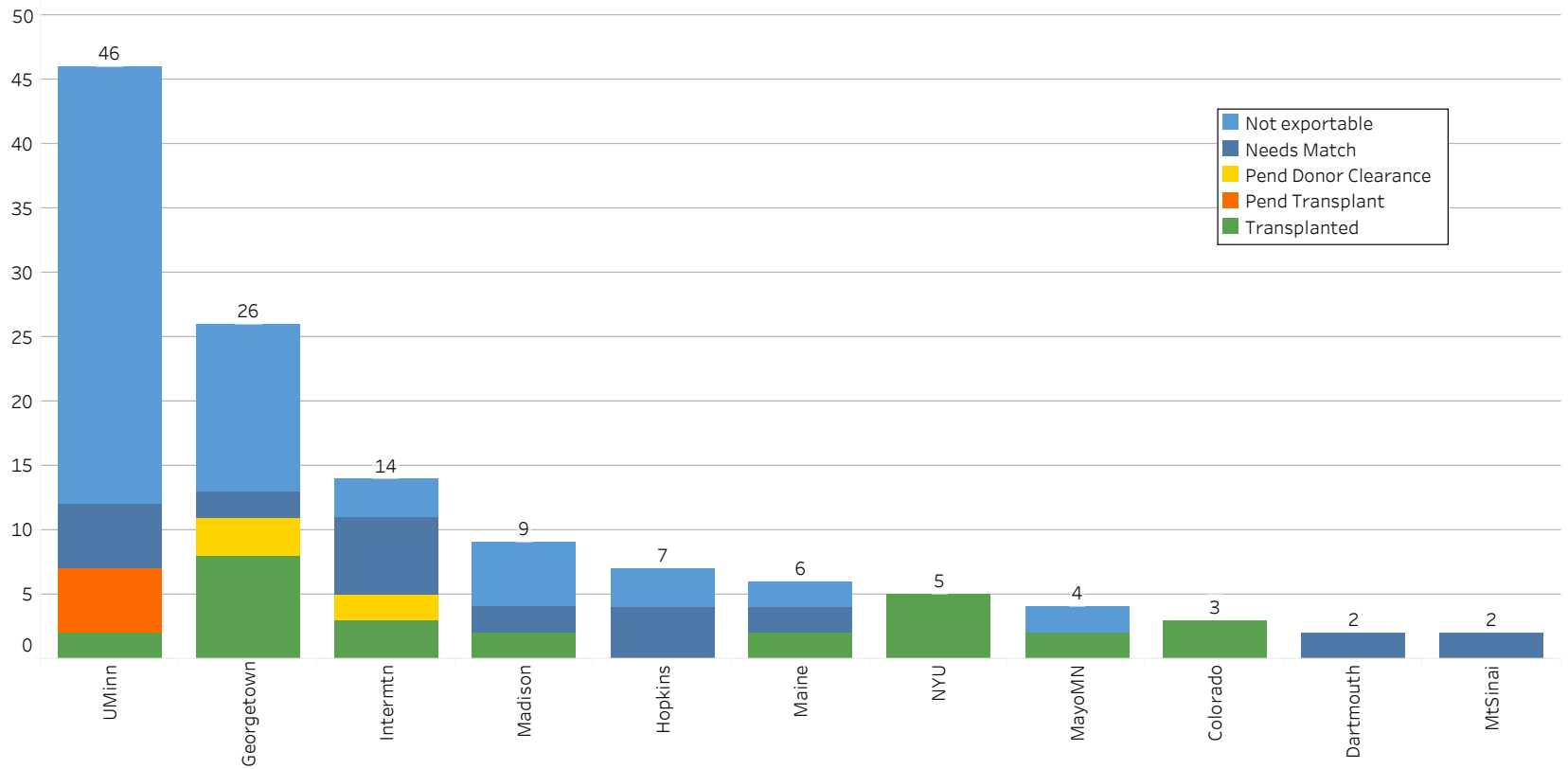
Successful Kidney for Life Matches

Zero and Low Eplet Mismatches (MM)

#	R Center	R Alias	cPRA	R Age TOT	R ABO	Compatibility	Paired Donor Eplet MM	Matched Donor Eplet MM	Exportable To Match Offer (Days)	Match Offer To Transplant (Days)	Exportable To Transplant (Days)
1	Cornell	PRAP86	0	33	B	Compatible	UNK	Low	43	29	72
2	Colorado	JD1463793	12	34	A	Compatible	High	Low	1	26	27
3	Colorado	CF7874327	0	6	A	Compatible	Low	Low	28	8	36
4	MayoMN	RORN1956	0	64	A	Compatible	High	Low	1	37	38
5	UMinn	KNAA71	2	49	A	Compatible	Low	Low	15	34	49
6	NYU	PB12351383	0	61	O	ABOi	High	Zero	15	82	97
7	NYU	MV12134082	87	63	O	HLAi	High	Zero	9	28	37
8	UMinn	NELKI77	71	42	B	HLAi	High,High	Zero	1	20	21
9	CinciChildrens	HM11376290	0	6	A	ABOi	High	Zero	316	22	338
10	UMinn	ROJO75	79	44	O	ABOi	Medium	Zero	21	22	43
11	Intermtn	CROJAMREC	14	61	A	ABOi	High	Zero	1	36	37
12	NYU	JJ14219675	0	65	O	ABOi	UNK	Low	37	27	64
13	Georgetown	FS0923628R	0	60	B	ABOi	High	Low	12	36	48
14	Intermtn	SPECAMREC	100	38	O	HLAi	High	Low	56	22	78
15	MayoMN	ROAW1997	14	23	B	ABOi	High	Low	1	22	23
16	Intermtn	MADROGREC	87	60	A	ABOi	High	Low	181	22	203
17	Intermtn	WAR1973REC	0	47	A	ABOi	UNK	Low	22	19	41
18	UMinn	STUJA00	70	20	A	HLAi	High,High,Hi..	Low	35	35	70
19	UMinn	TV9654	86	68	A	HLAi	UNK	Low	47	29	76
20	UMinn	CAJU85	76	35	O	HLAi	High	Low	32	36	68
21	UMinn	KRD77	97	43	A	HLAi	High,UNK	Low	29	14	43

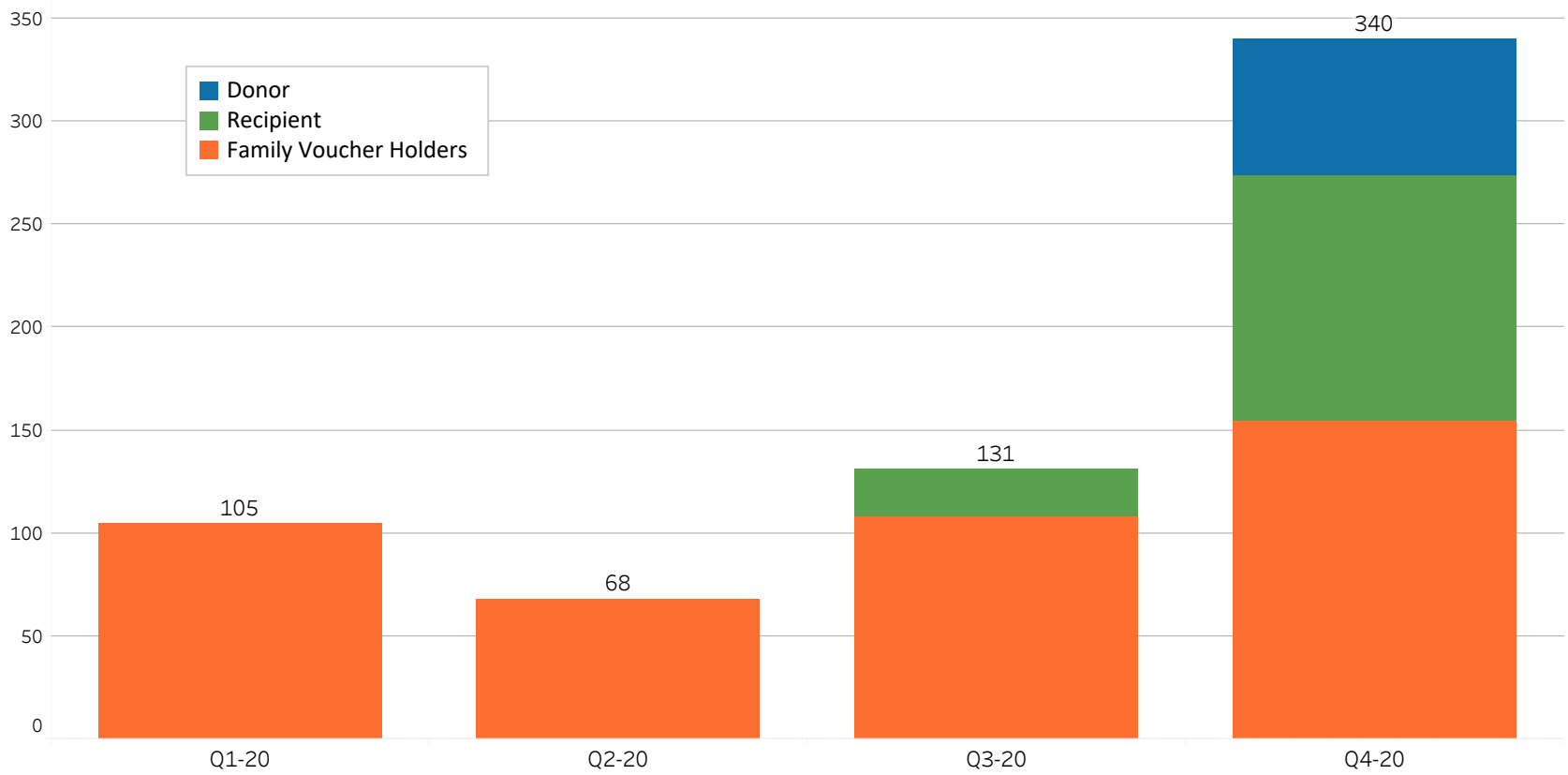
As of 1/18/2021 10:18:55

Patients with 3G Typing by Center



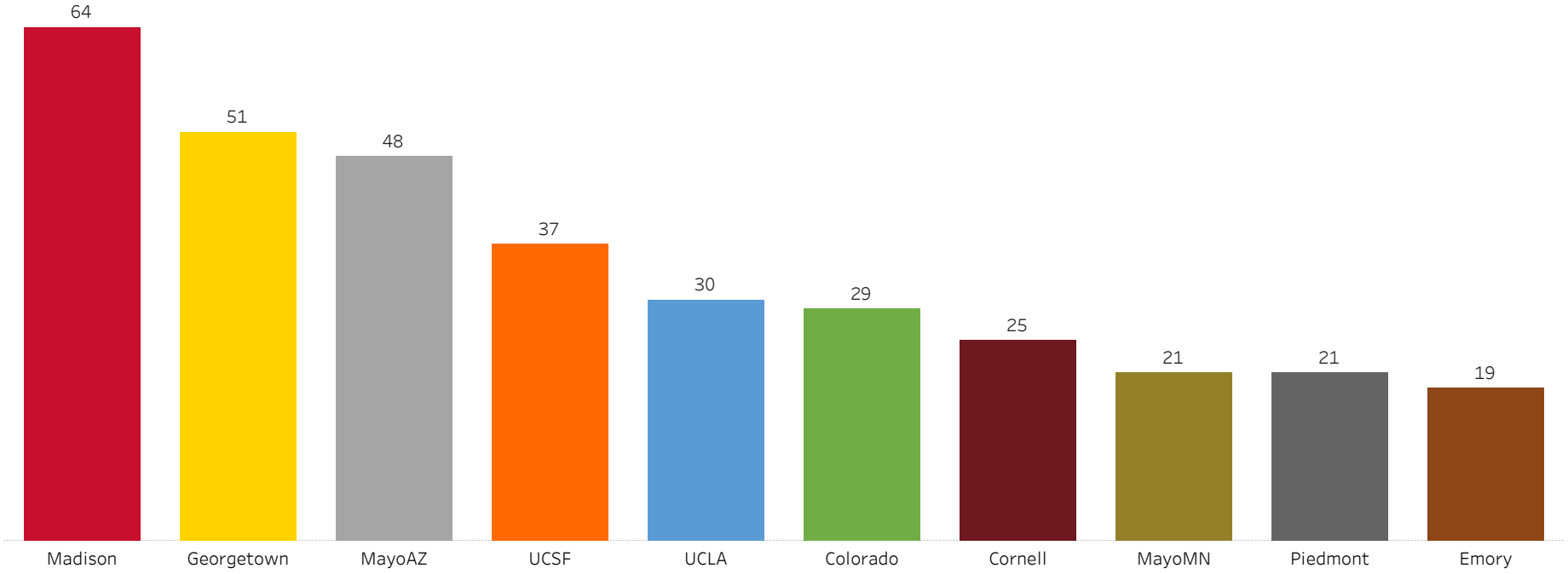
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3G Cheek Swab Utilization



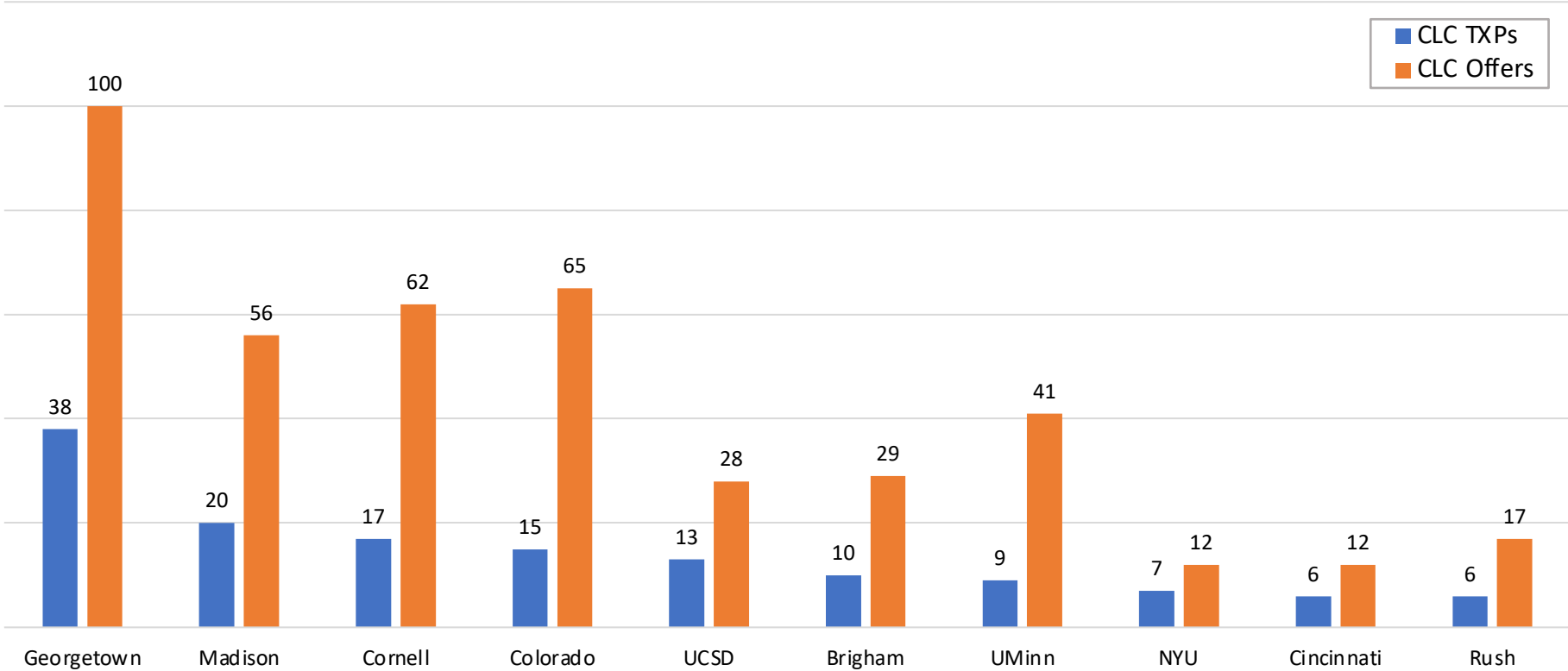
Top Centers

NKR KPD Transplants 1/1/20 – 12/31/20



Top Center Liquidity Contributors (CLC)

CLC Driven Match Offers 1/1/20 – 12/31/20



Partner Center Chain End Target

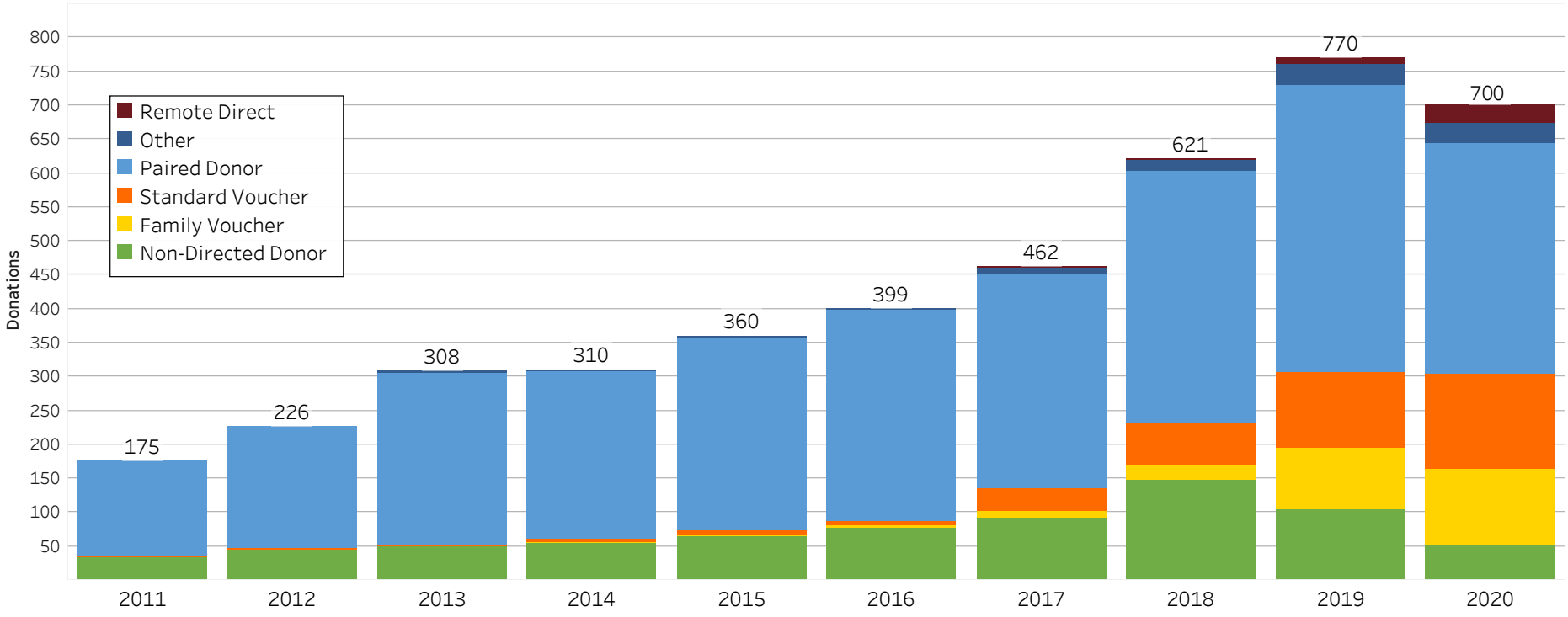
Center	Family Voucher (FV) Target	FV O Chains Last 24 Months	FV Non-O Chains Last 24 Months	Net Chains Starts	Match Offer Declines Last 12 Months	Match Offer Decline Ratio	Center Liquidity Contribution
Colorado	29	9	11	-27	15	71	11410
Maine	11	2	5	-6	10	100	-1240
UCSD	11	3	7	-15	1	20	12940
Madison	10	11	22	-78	24	104	-3650
Brigham	9	3	5	-13	6	120	-3800
Avera	7	2	2	-4	6	75	2800
Cornell	7	9	7	-41	12	80	7100
Georgetown	7	9	7	-40	4	16	10510
NYU	7	2	1	-3	5	42	2200
UCSF	7	6	5	-24	1	8	-7500
Hartford	6	1	3	-2	4	67	740
CCFlorida	5	2	1	-5	3	100	-4440
UMinn	5	6	2	-23	4	36	15880
HMHN	4	1	0	0	0	0	0
Rush	4	1	4	-8	2	25	-2280
UCLA	3	4	8	-29	5	26	-5600
MayoAZ	2	5	2	-19	2	18	-6900
UHCleveland	2	0	1	0	0	0	3400
Legacy	1	1	1	-5	12	100	-1980
Cincinnati	0	0	0	0	1	17	200
Piedmont	0	0	0	0	1	25	-8200
Allegheny	-1	1	0	-5	0	0	-2240
Sharp	-1	0	1	-3	0	0	-2390
ChristHosp	-2	0	1	-4	0	0	3620
Vidant	-2	0	0	-2	0	0	2000
VAHD	-3	0	1	-5	0	0	3360
MtSinai	-4	0	0	-4	5	167	-14830
VirginiaMason	-7	0	0	-7	7	140	-400
Emory	-10	0	3	-16	1	20	-2640

As of date 1/12/2021

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

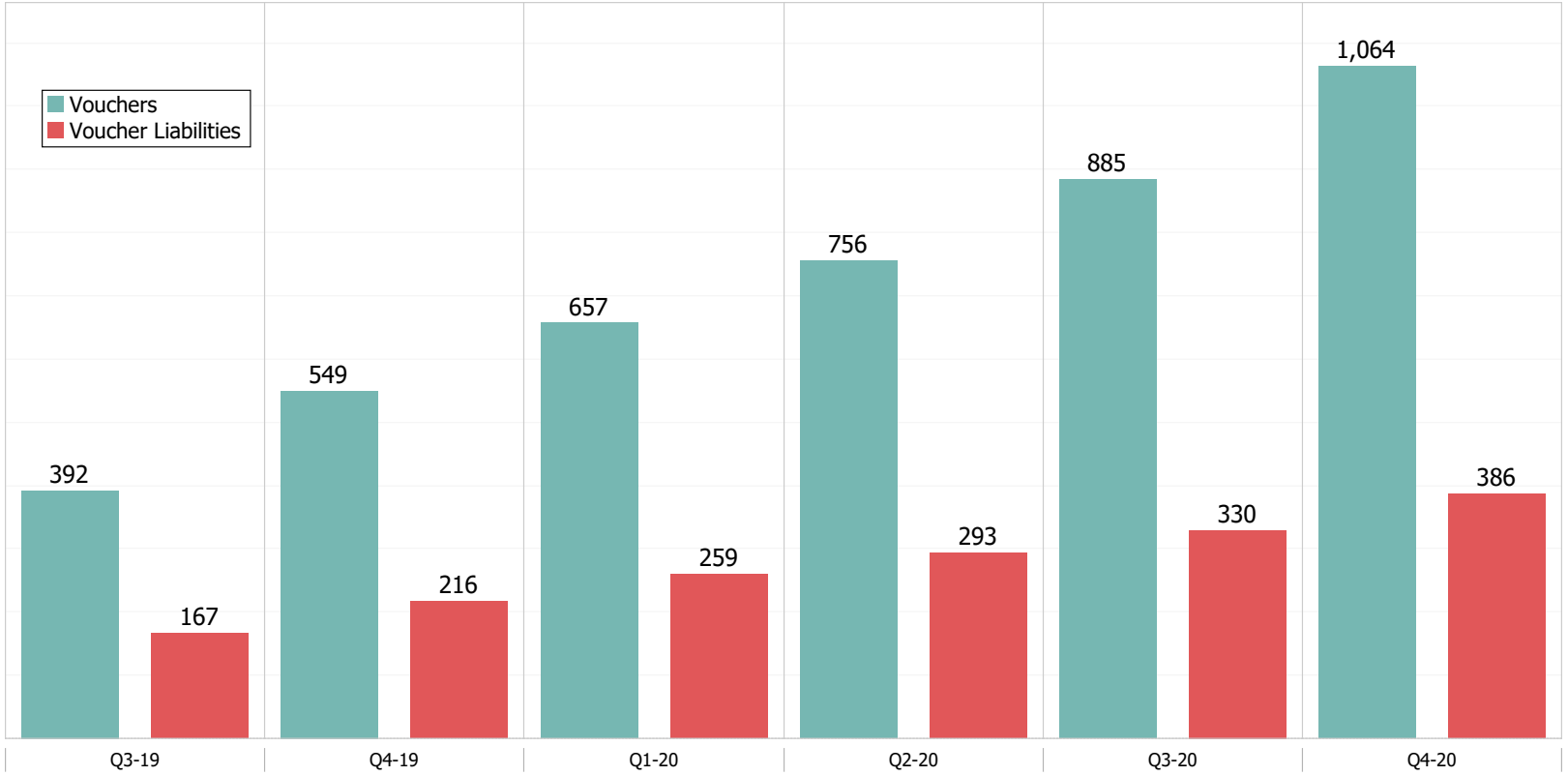
Decline ratio > 100

Kidney Donations by Donor Type



As of 1/18/2021 11:01:08
* Restated due to database update/changes affecting calculations

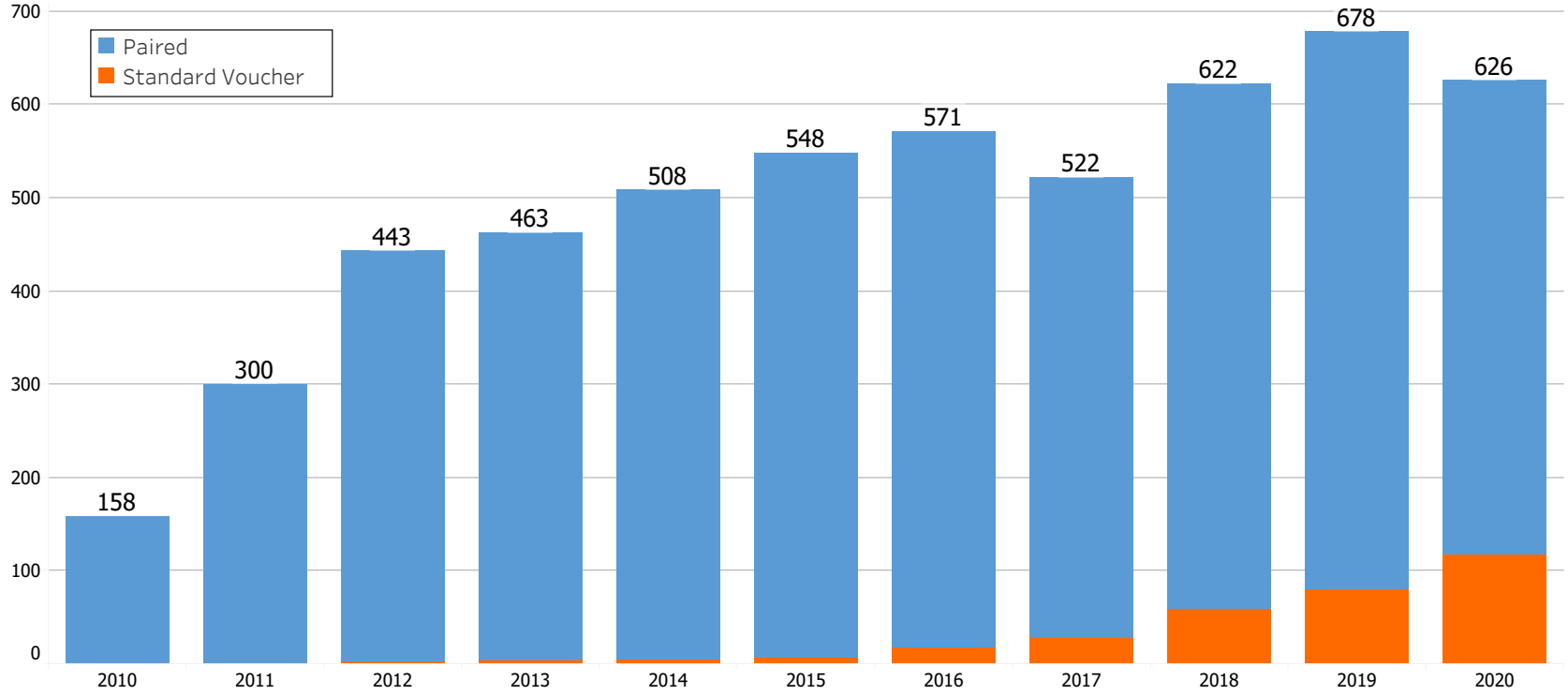
Vouchers Outstanding



As of 1/15/2021 10:46:43
* Restated due to database update/changes affecting calculations

New Exportable KPD Patients

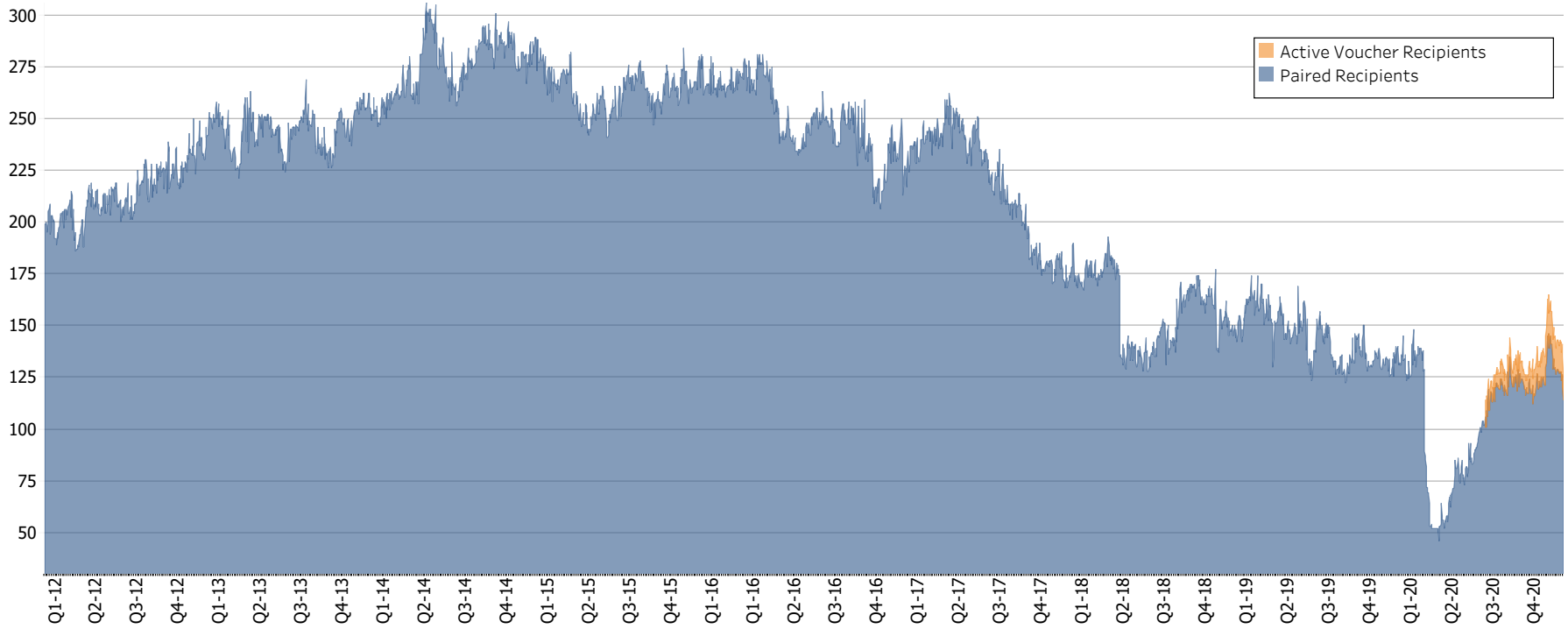
Pairs and Standard Vouchers



As of 1/8/2021 18:04:17
* Restated due to database update/changes affecting calculations

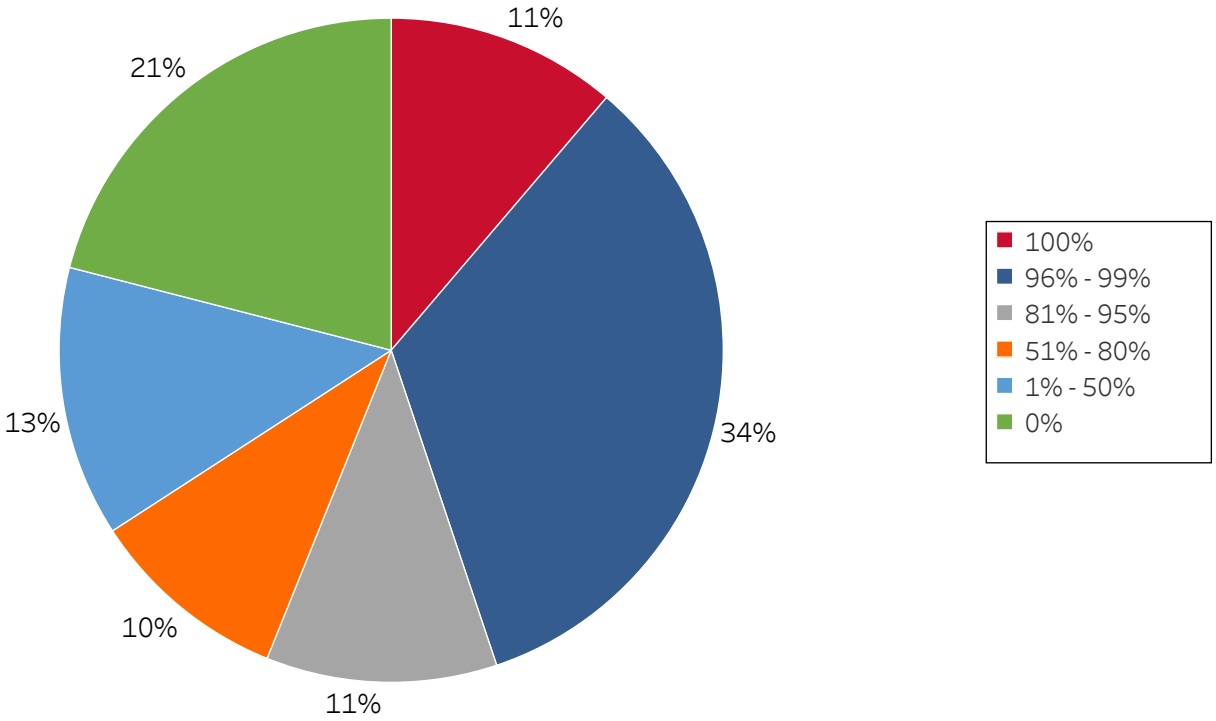
Pool Size

Unmatched Patients



As of 1/8/2021 17:52:44
Pool snapshot was modified in July 2020 to include Activated Vouchers.

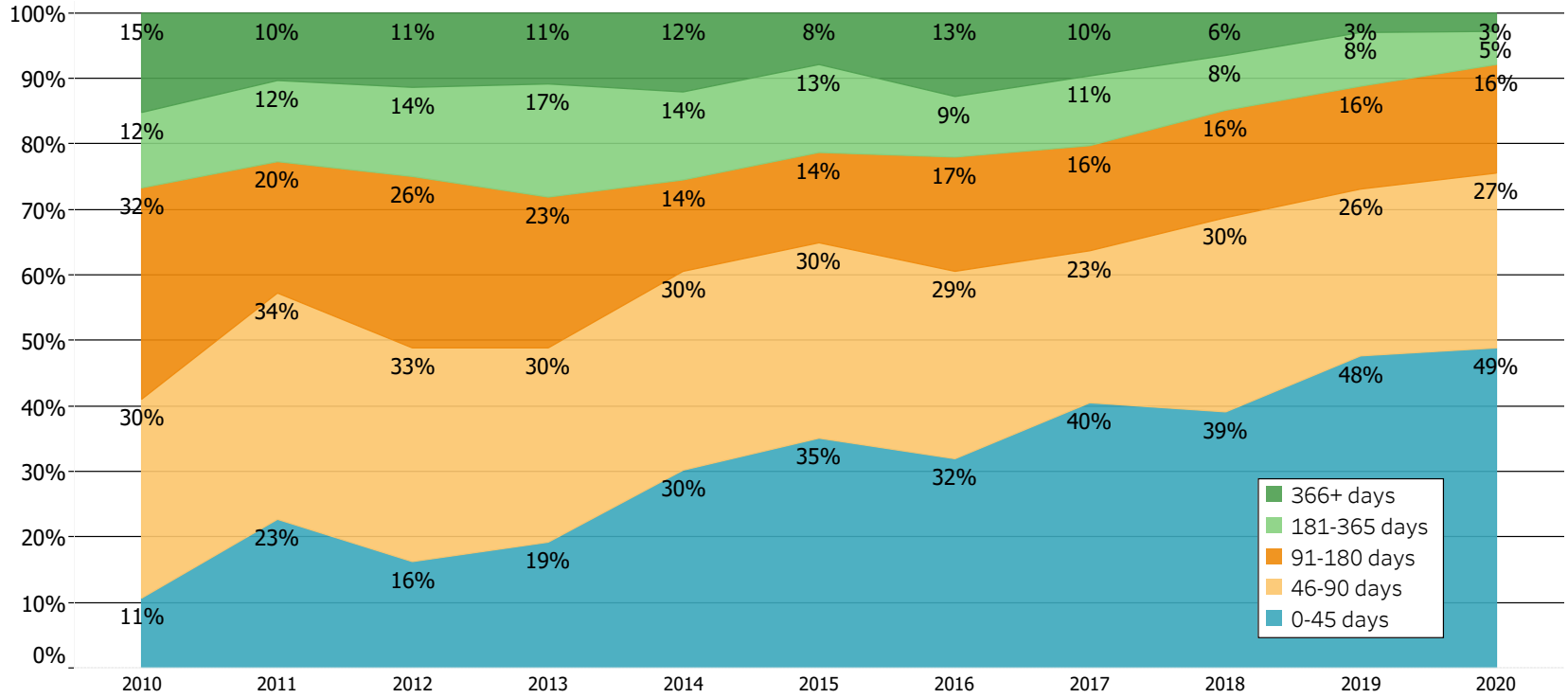
Pool Composition by cPRA



As of 1/7/2021 13:37:30

Wait Time Distribution

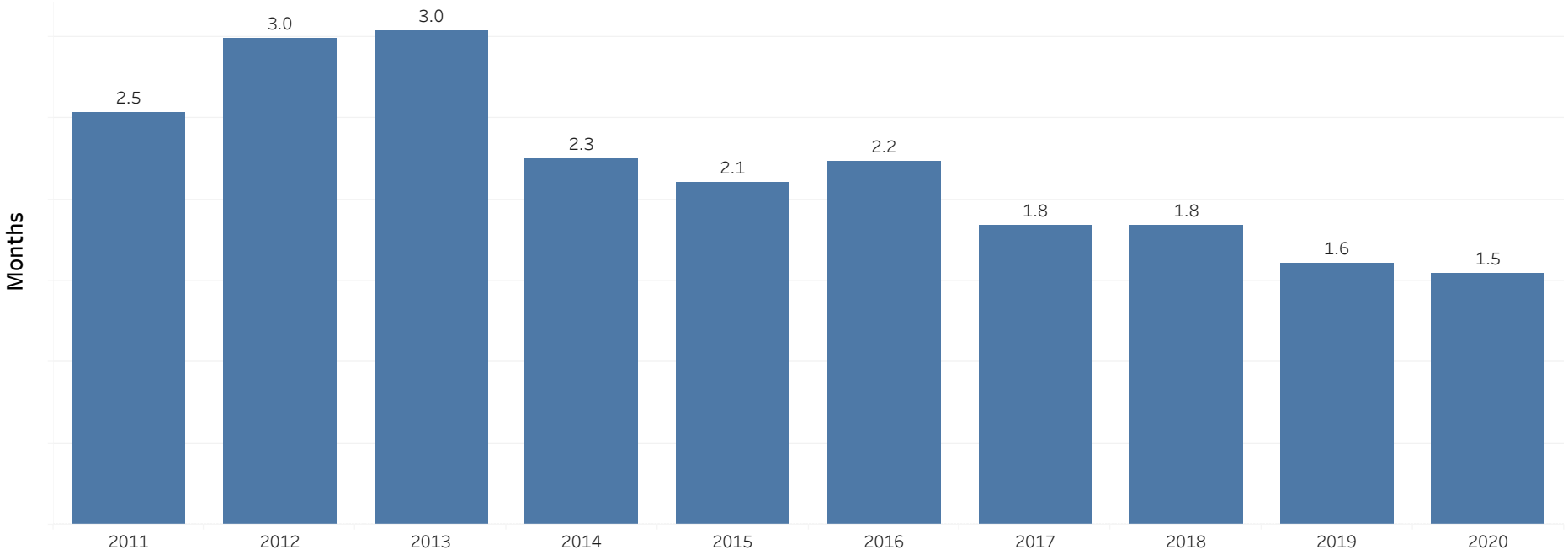
From Exportability to Transplant



Updated to Exclude Waitlist Patients
As of 1/15/2021 10:46:43

Transplanted Recipient Median Wait Time

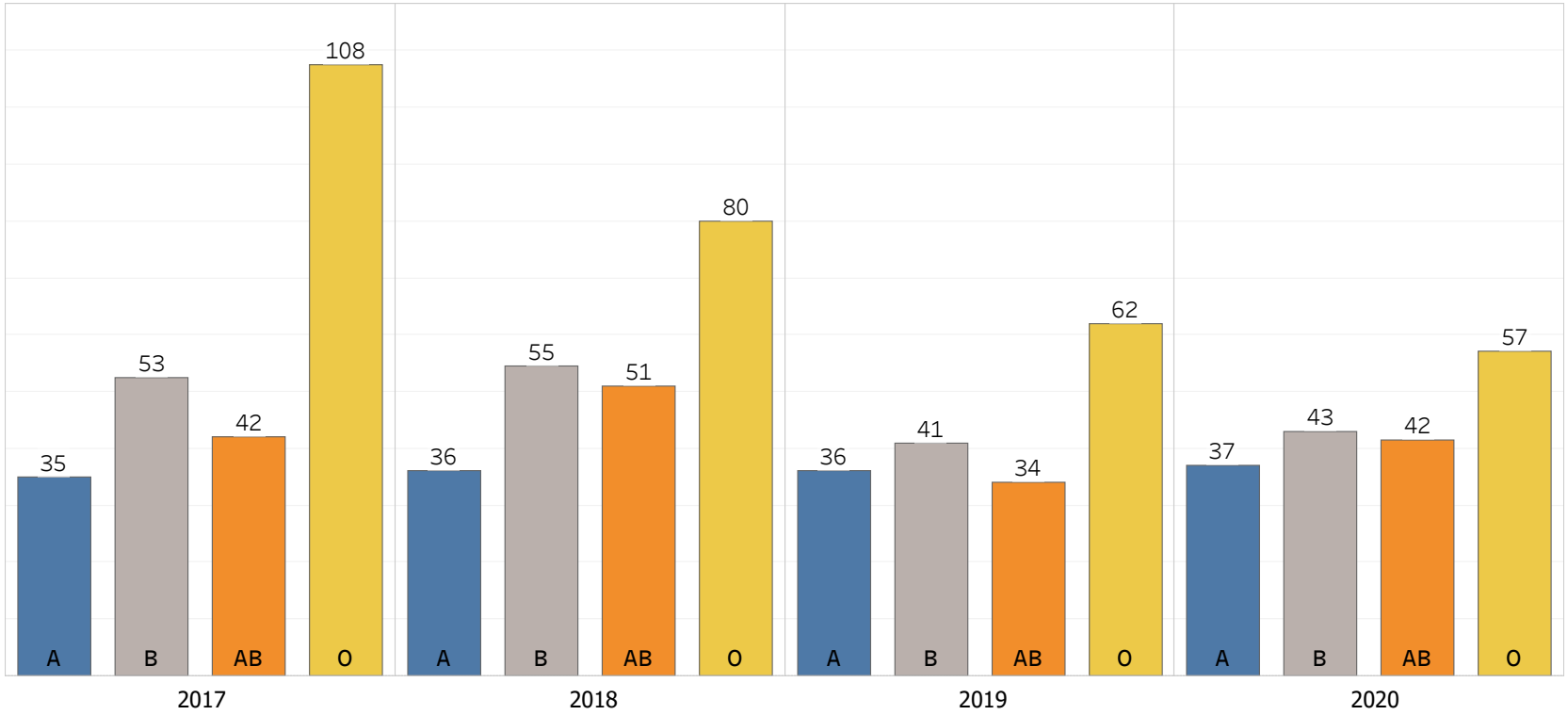
Wait Times of Recipient Transplanted During Prior 12 Months



As of 1/7/2021 11:42:52
*Restated due to database update/changes affecting calculations

Median Wait in Days by ABO

From Exportability to Transplant



* Restated due to database update/changes affecting calculations

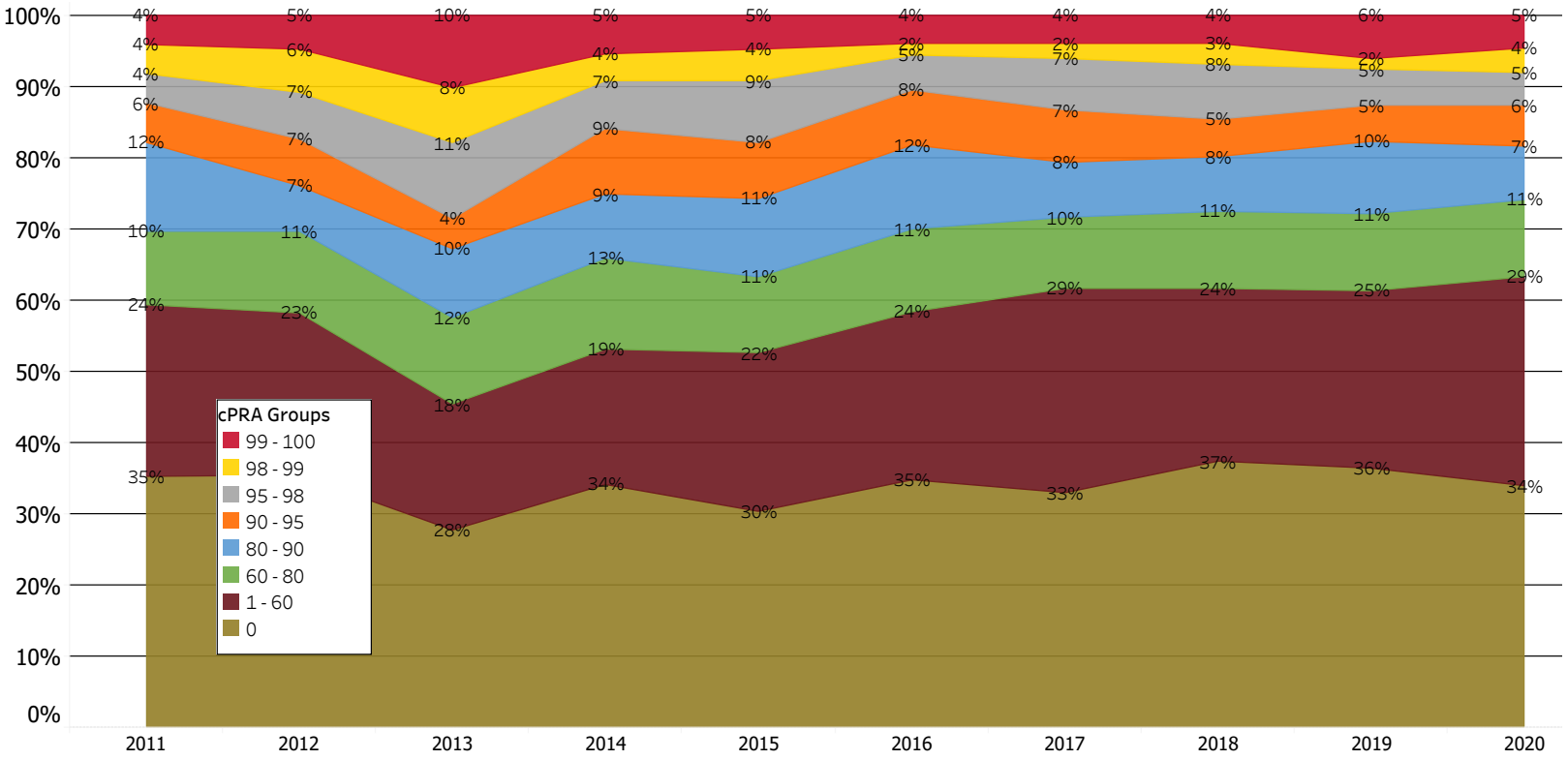
Patients Waiting > 1 Year

Due to High cPRA

#	Patient Alias	P-ABO	cPRA	Months Wait	Patient Type
1	MAB1402991	AB	100.00	74	Voucher
2	GM8784	B	100.00	61	Paired
3	UC06142609	O	99.95	52	Paired
4	R324744	O	99.98	39	Voucher
5	CR02221971	O	99.93	36	Paired
6	H903961717	O	99.98	36	Paired
7	AH6321	O	100.00	30	Paired
8	R475238	O	100.00	25	Paired
9	BRBA52375	O	99.80	23	Paired
10	M000464196	O	99.98	20	Paired
11	REYKRI750	B	100.00	19	Paired
12	CB1040805	A	100.00	16	Voucher
13	RFLCC30	O	100.00	16	Voucher
14	C903849873	O	100.00	15	Paired
15	MWASH1983	O	99.95	15	Paired
16	PAC3140047	O	100.00	15	Paired
17	BROBON	O	99.61	14	Paired
18	135046567G	B	100.00	12	Voucher
19	AP1230137	A	99.92	12	Paired

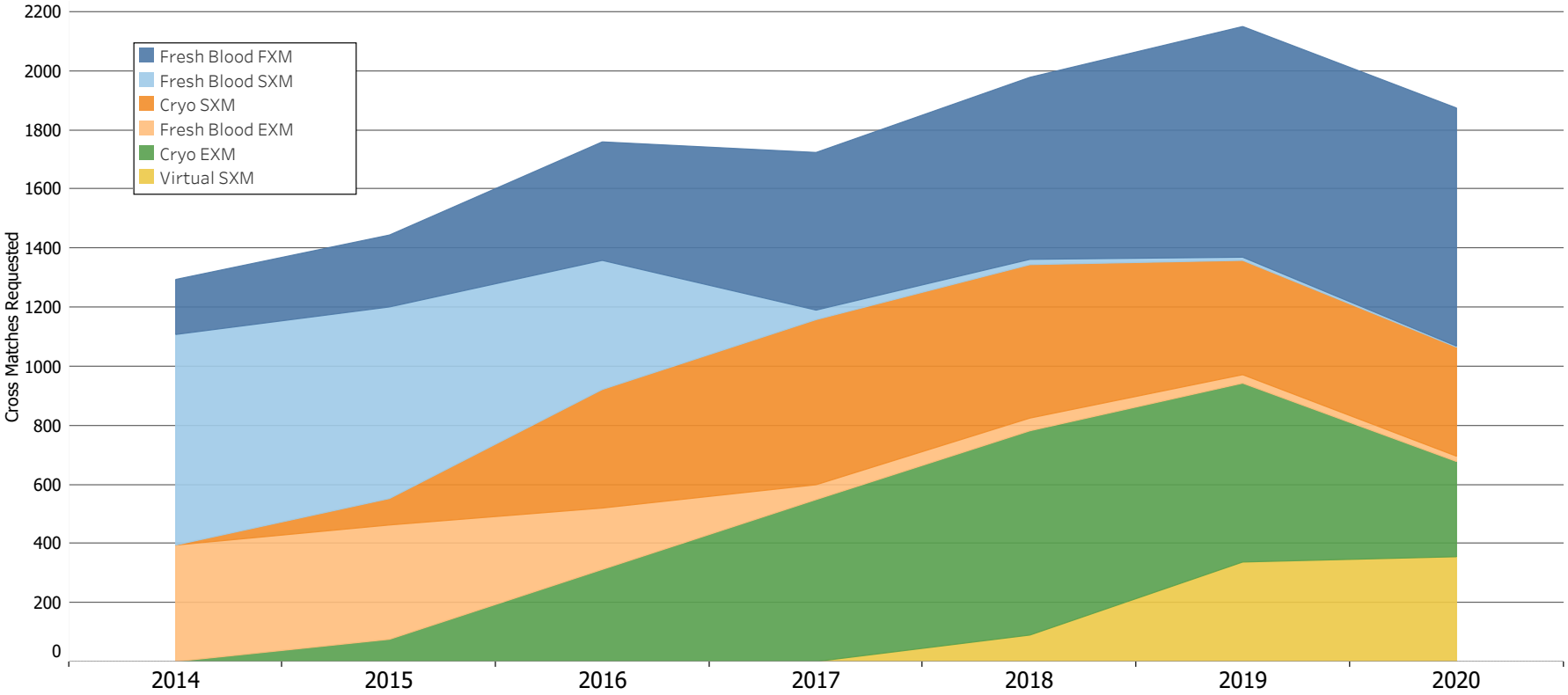
As of 1/15/2021 10:15:17

Transplanted Recipients by cPRA

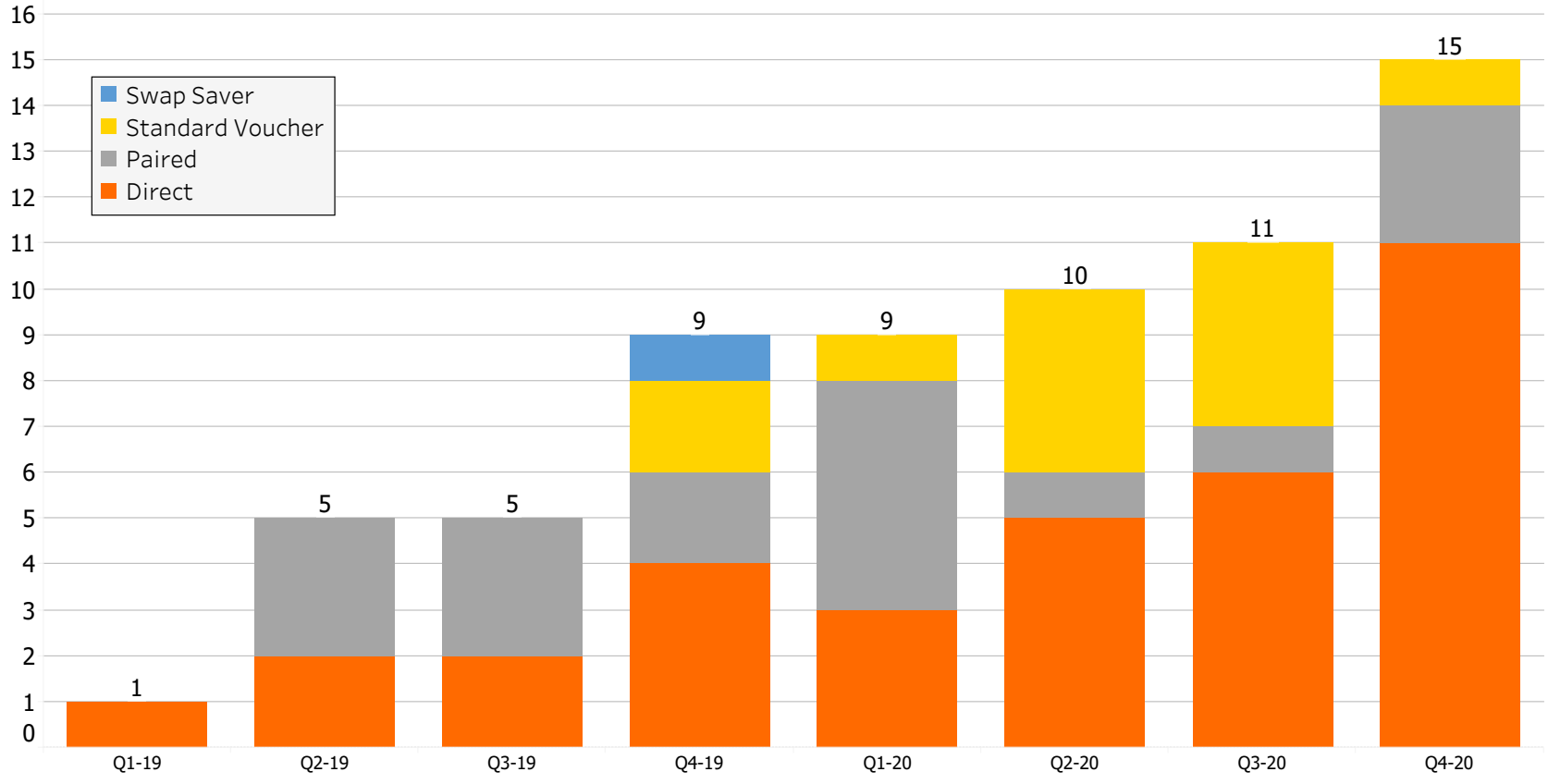


Excludes Waitlist Patients
As of 1/22/2021 15:49:55

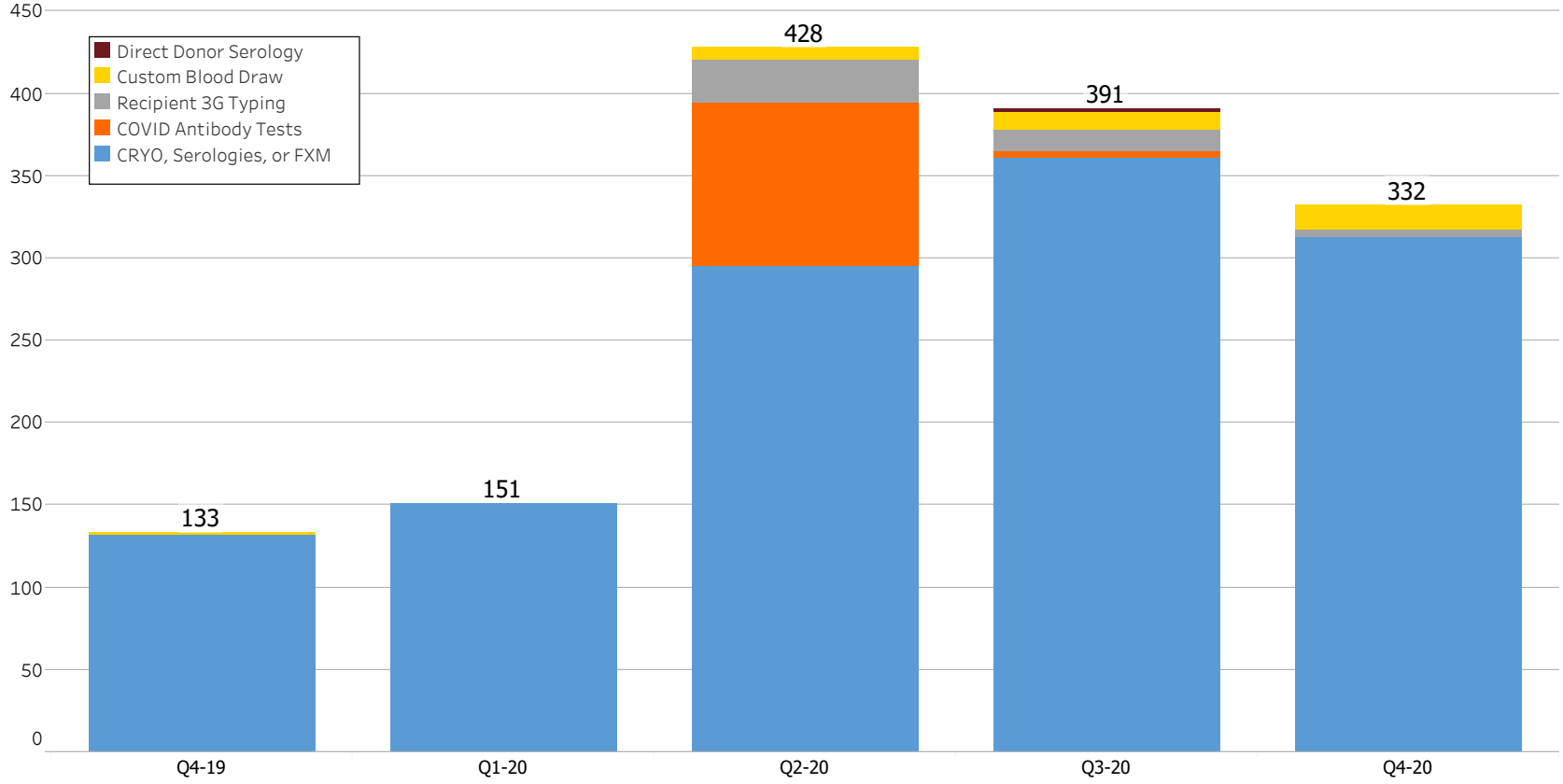
Streamlined Cross Matches Requested



Remote Donations by Donor Type

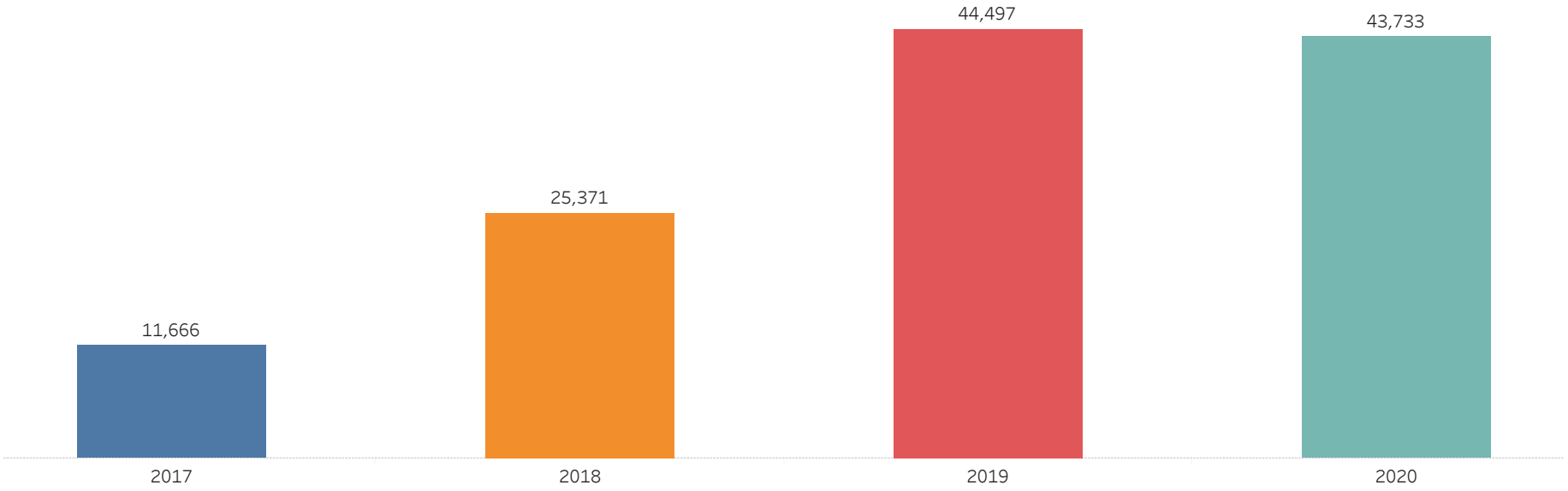


Home Blood Draw Request



Donor Registrations

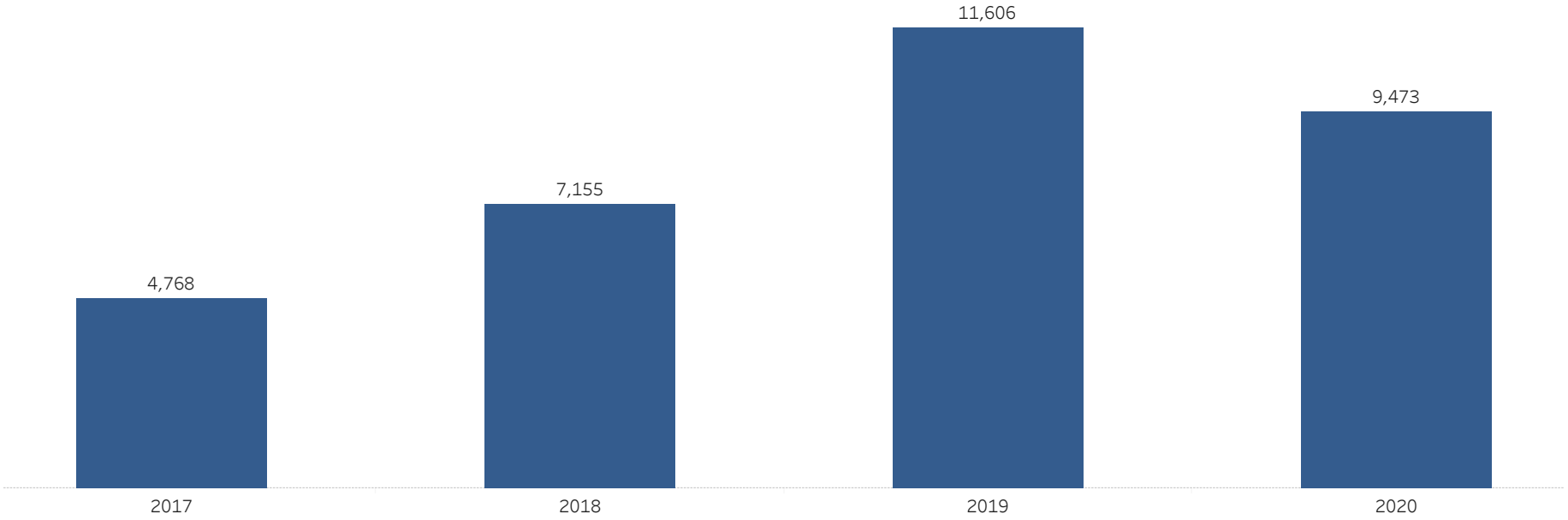
Across All DASH Platforms



As of 1/7/2021 13:37:30
*Restated due to database update/changes affecting calculations

Good Samaritan Donor Registrations

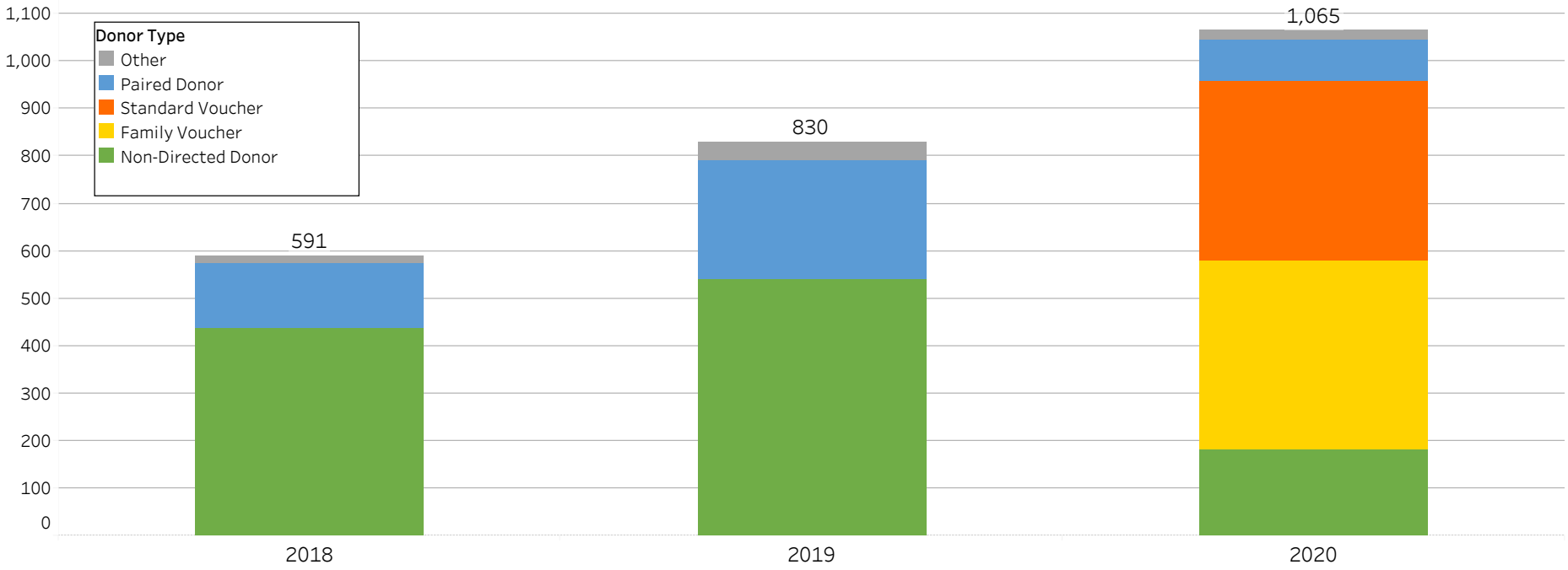
Across All DASH Platforms



As of 1/7/2021 13:37:30
Good Samaritan donors include NDD's and Family Voucher Donors

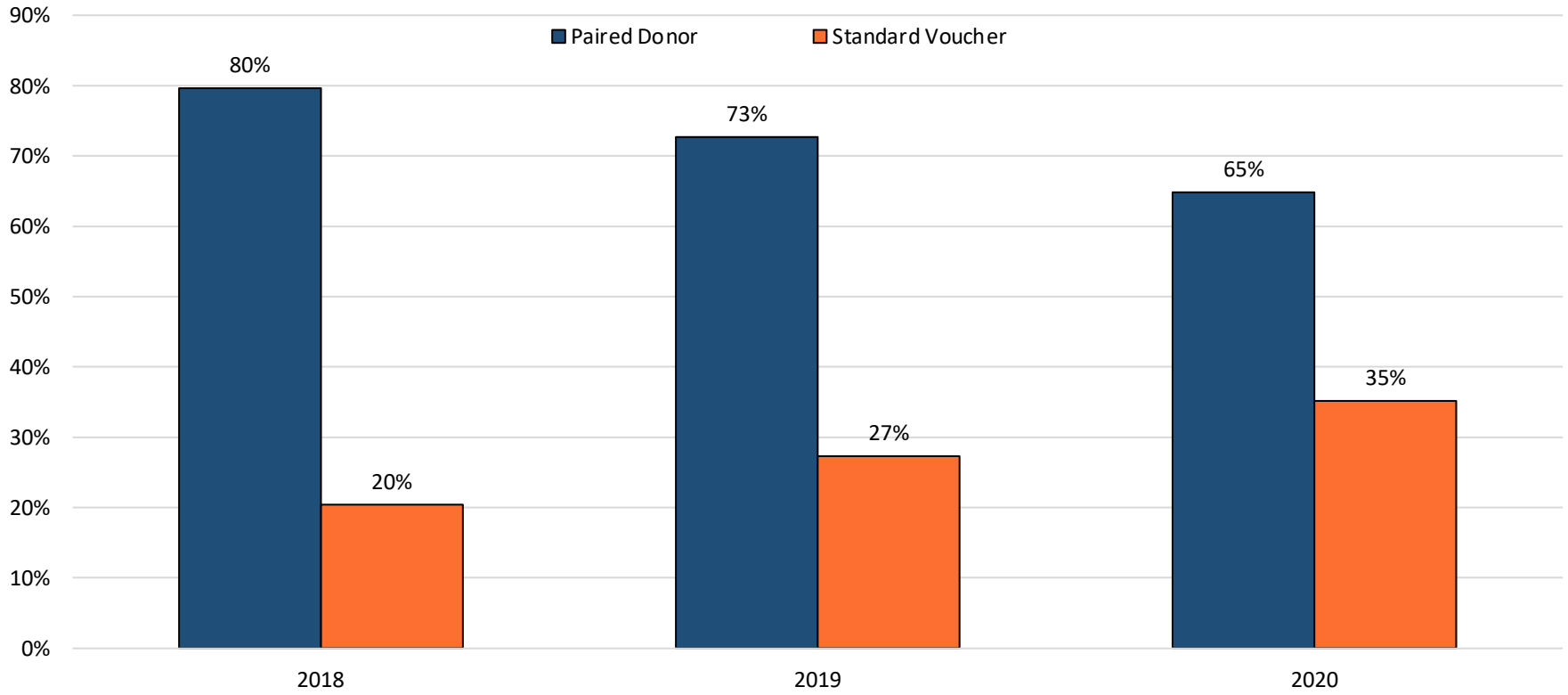
NKR & DCN Donor Referrals

Referred to NKR Member Center



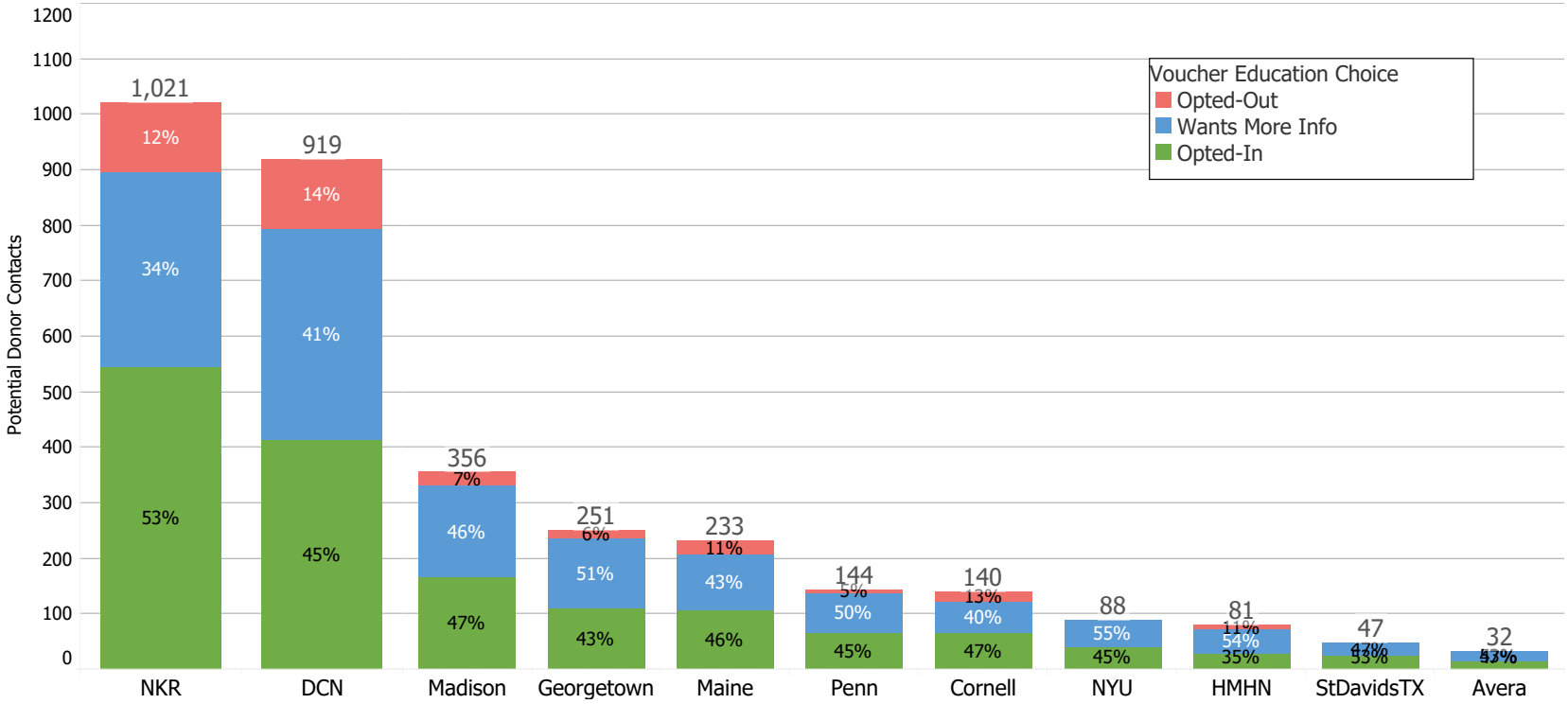
As of 1/7/2021 13:37:30

Uncoupling Trend



Voucher Education Module Donor Choice

10/9/20 – 1/8/21

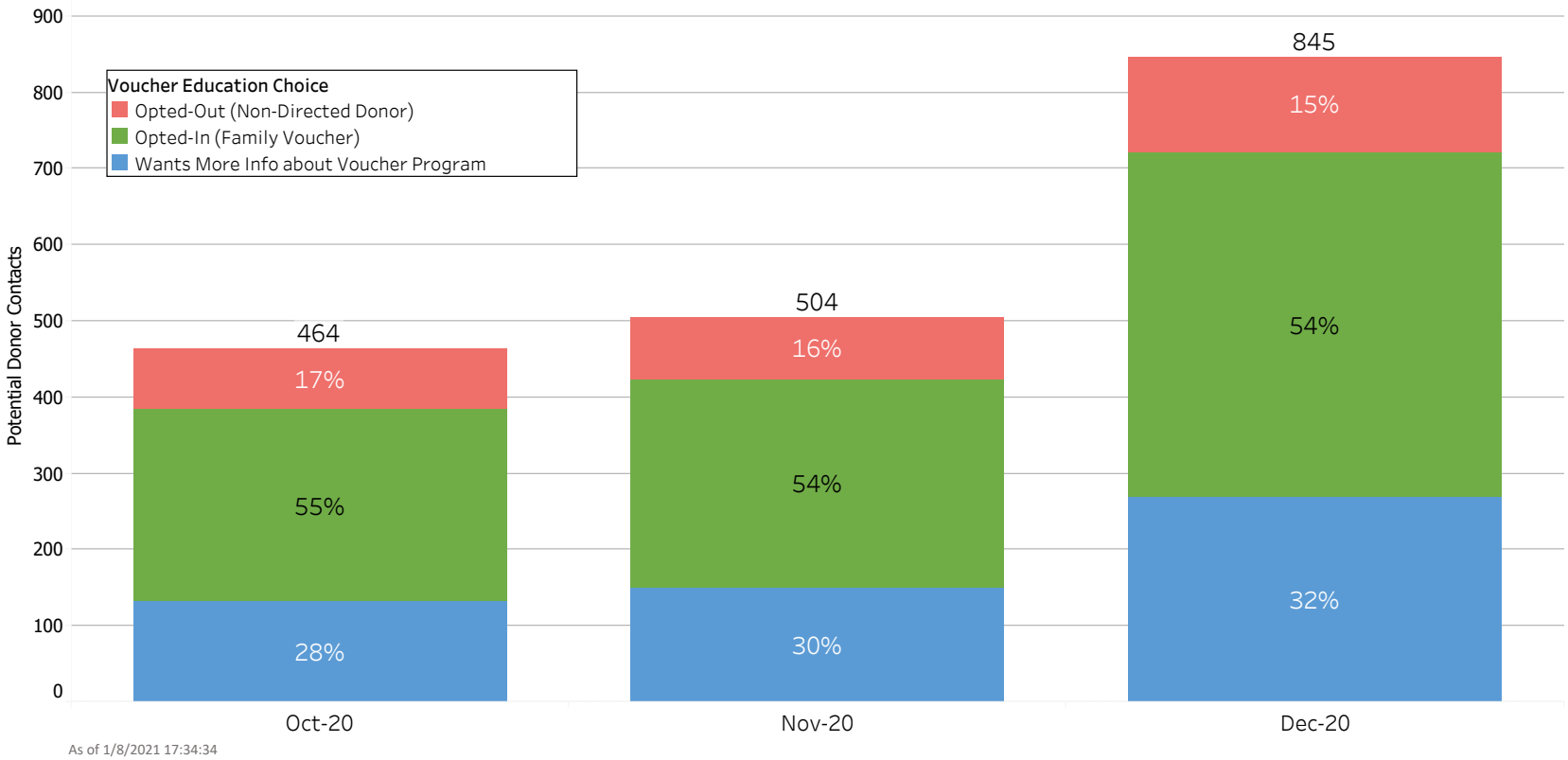


As of 1/8/2021 17:34:34

*Centers may have turned on VEM after 9/16/20

VEM Good Samaritan Donor Candidates

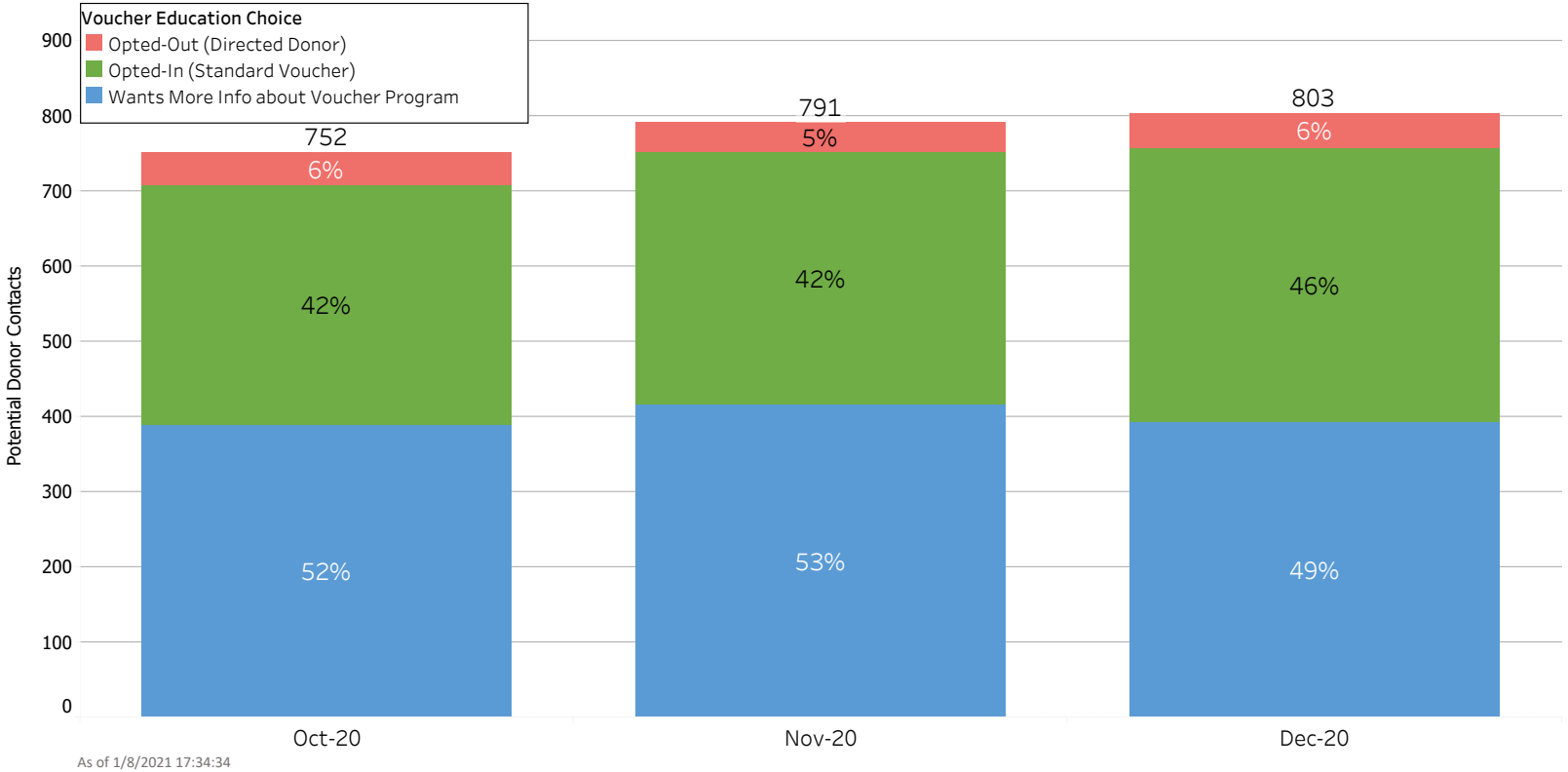
Across NKR, DCN, Microsite, and PL DASH



As of 1/8/2021 17:34:34

VEM Donor Candidates Who Know The Recipient

Across NKR, DCN, Microsite, and PL DASH



As of 1/8/2021 17:34:34

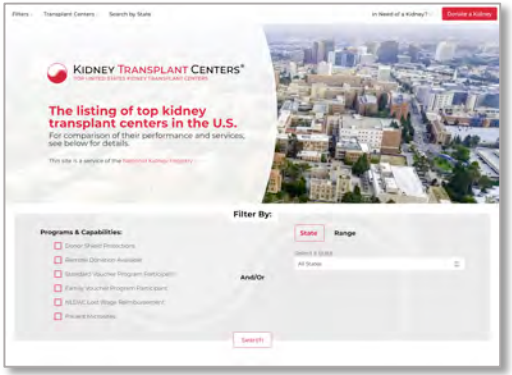
Educational Resources



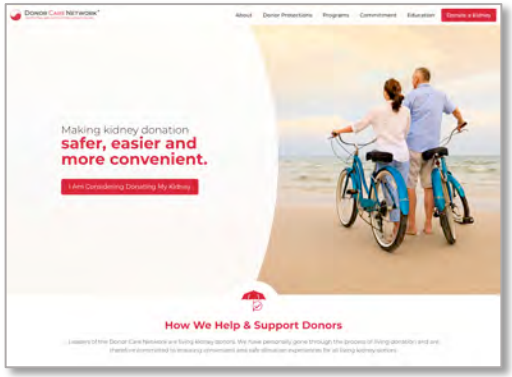
kidneyregistry.org



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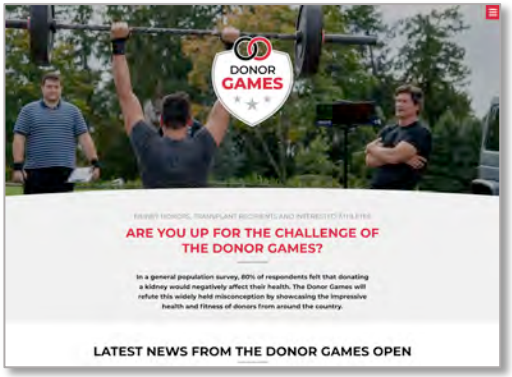
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