



NATIONAL KIDNEY REGISTRY®
FACILITATING LIVING DONOR TRANSPLANTS

Quarterly Report

Q3 2023

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Message from the Founder & CEO



NKR facilitated transplant outcomes continue to improve—the NKR 3-year death censored graft failure rate is now 14% lower than all other U.S. living donor kidney transplants. These recent outcome improvements are partially driven by a significant increase in low eplet mismatch transplants, occurring even as the NKR continues to facilitate transplants for the most difficult cases.

The 22 Kidney for Life centers helped more than double the number of low eplet mismatch transplants facilitated by the NKR this year. KFL centers are not only improving transplant outcomes but also increasing the number of compatible pairs transplanted, which reduces both the O donor shortage and O patient wait times, helping all patients across all Member Centers.

The majority of Member Centers are now using Donor Connect to provide better service and support to living donor candidates. The power of the Donor Connect program is starting to show up in the data—the conversion rate for donor candidates who connect with a living donor mentor is four times the conversion rate of donor candidates who do not (8.5% with Donor Connect and 1.6% without).

We have included some new charts that highlight the wait time advantage of the Voucher Program—please see slides 35 and 36. Currently, over 70% of patients waiting more than 6 months in the NKR are paired recipient patients. Only 12 patients with a voucher have a wait time longer than 6 months, and 9 of those patients (75%) have a cPRA > 99.90%. If a Member Center has a pair waiting in the NKR for more than 3 months, they should consider the Voucher Program.

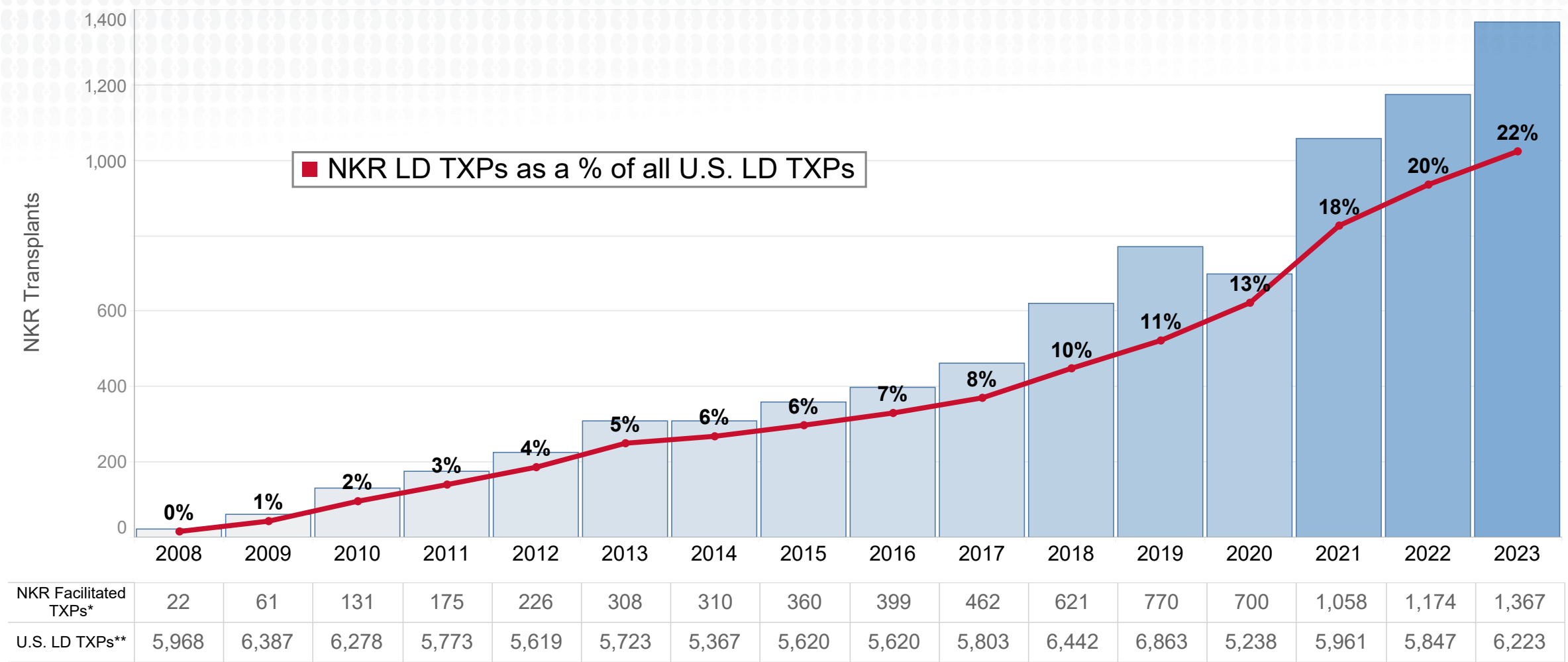
Sincerely,

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

Gareth Hil
Founder & CEO
National Kidney Registry
Living Kidney Donor



NKR Facilitated Transplant Growth



*NKR facilitated transplants (TXPs) include voucher, paired, remote directs, KFL remote directs, NKR internal direct, microsite internal direct, and WLP transplants.

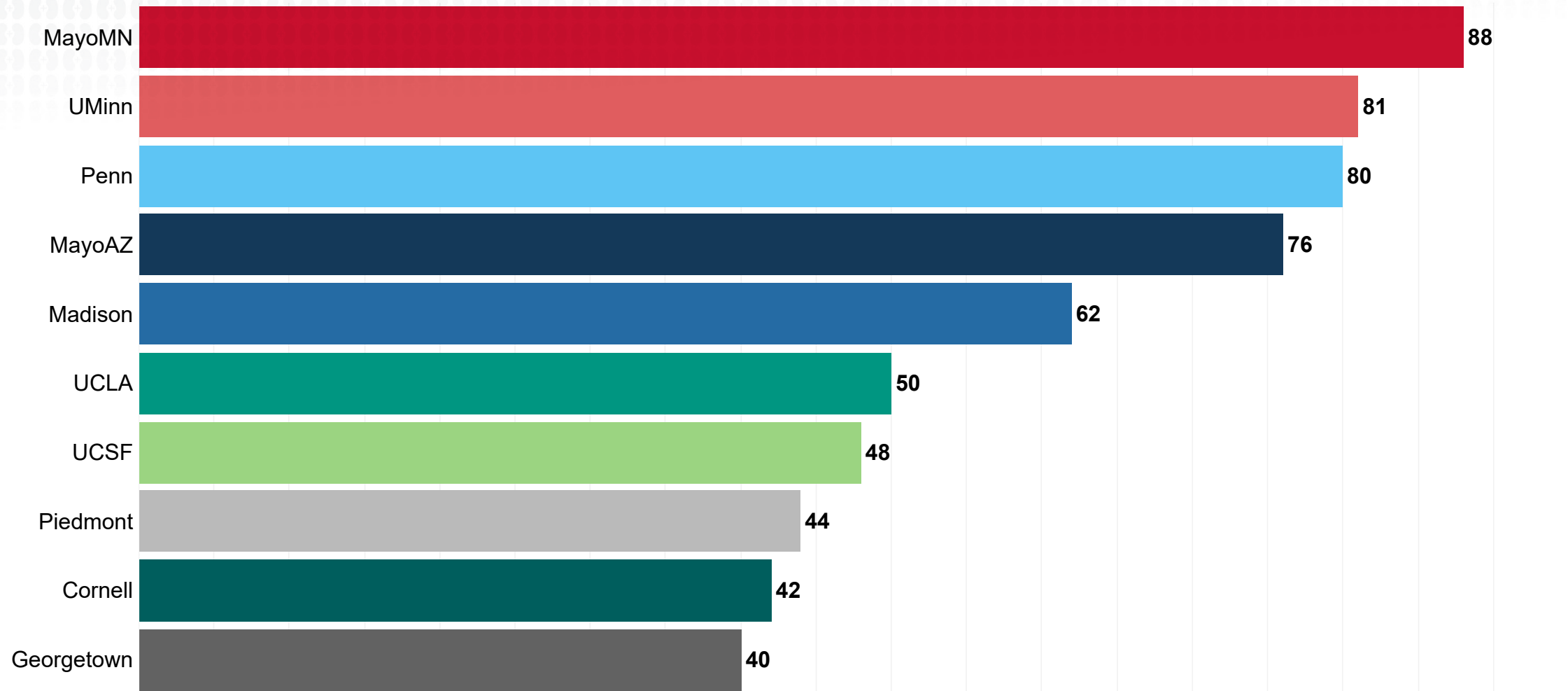
Total transplants subject to change due to delayed reporting. NKR data captured 10/2/2023.

**<https://optn.transplant.hrsa.gov/data/> U.S. Living Donor (LD) Transplants Performed: Data for OPTN 1/1/2008 – 8/31/2023.



Top 10 Centers

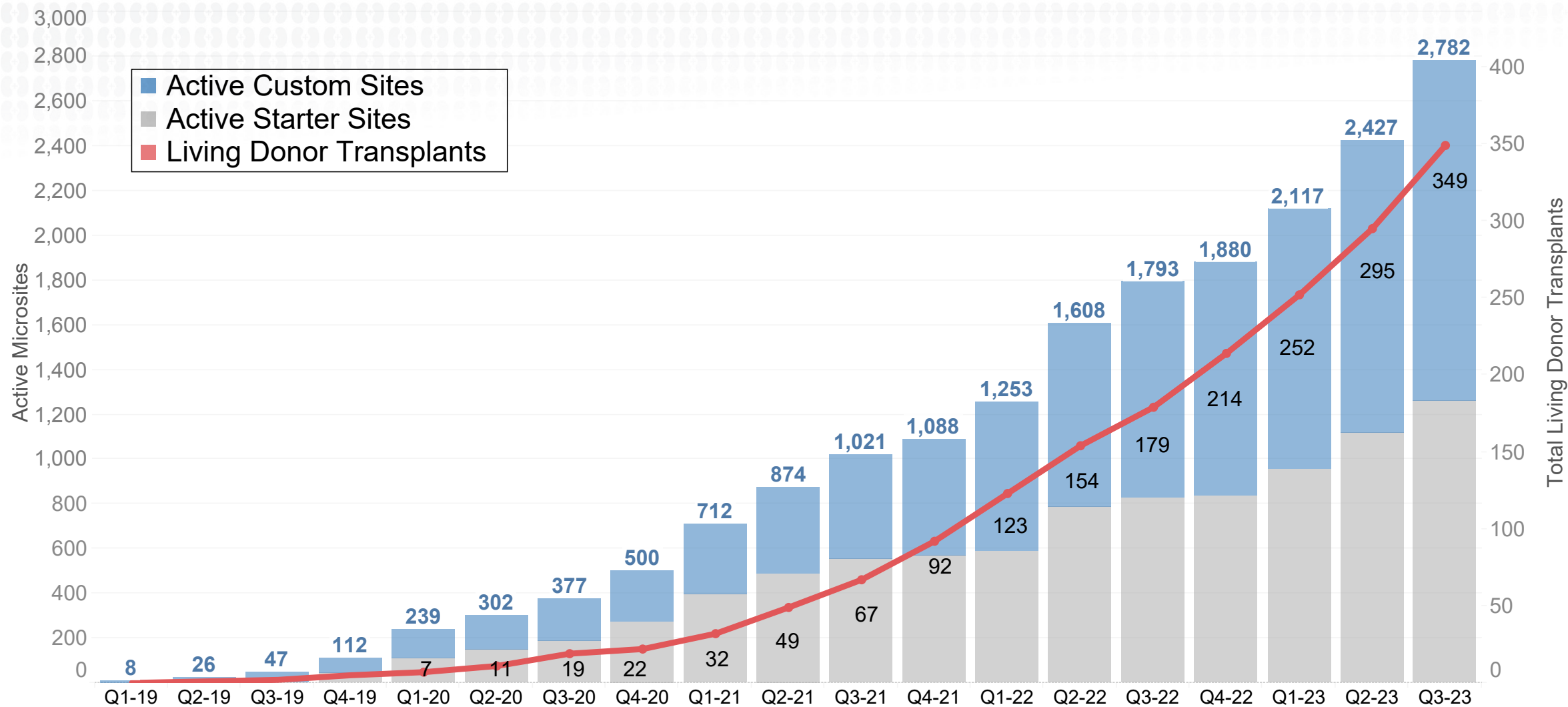
NKR Facilitated Transplants – Last 12 Months



*NKR facilitated transplants include: voucher holders, paired recipients, waitlist recipients, remote directs, KFL remote directs, NKR internal directs, microsite internal directs.
As of 9/30/2023.*



Microsite Growth

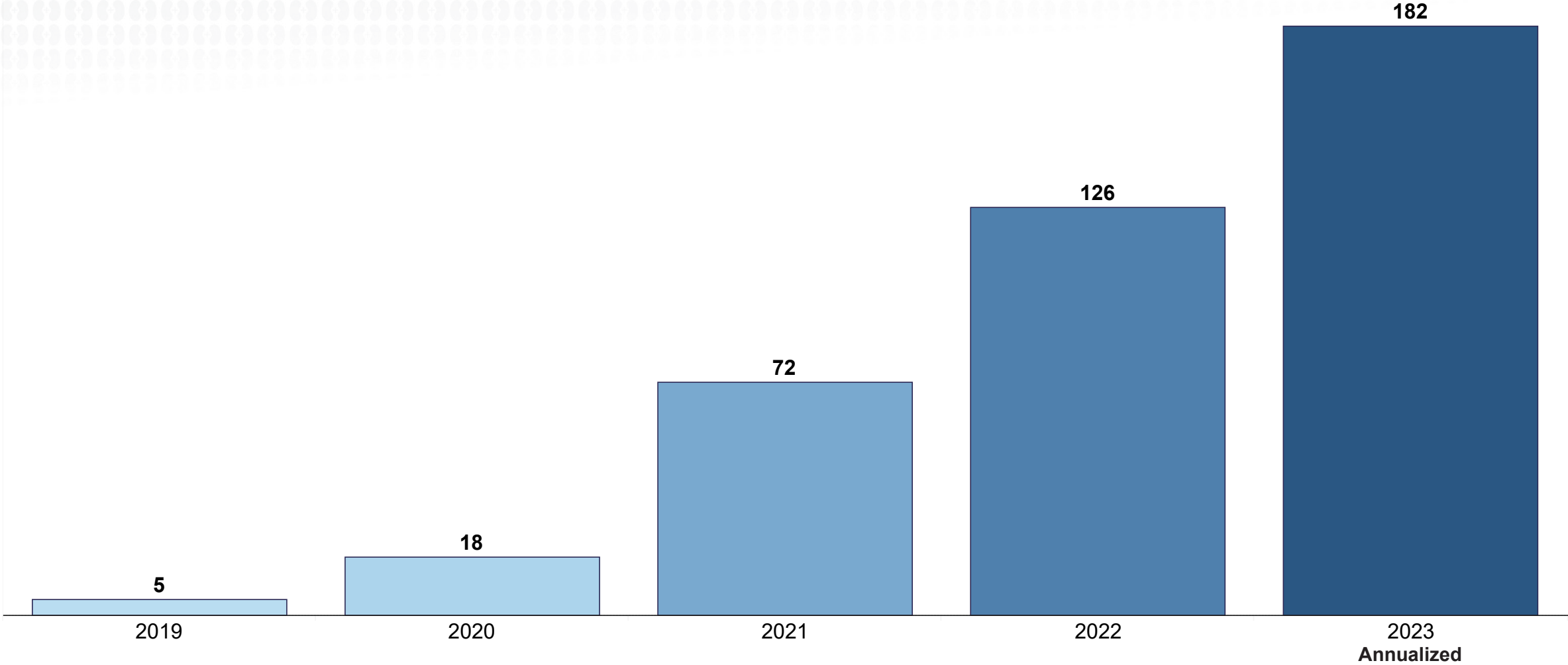


As of 9/30/2023.



Microsite Donor Transplants

Microsite Patients Who Received a Living Donor Transplant

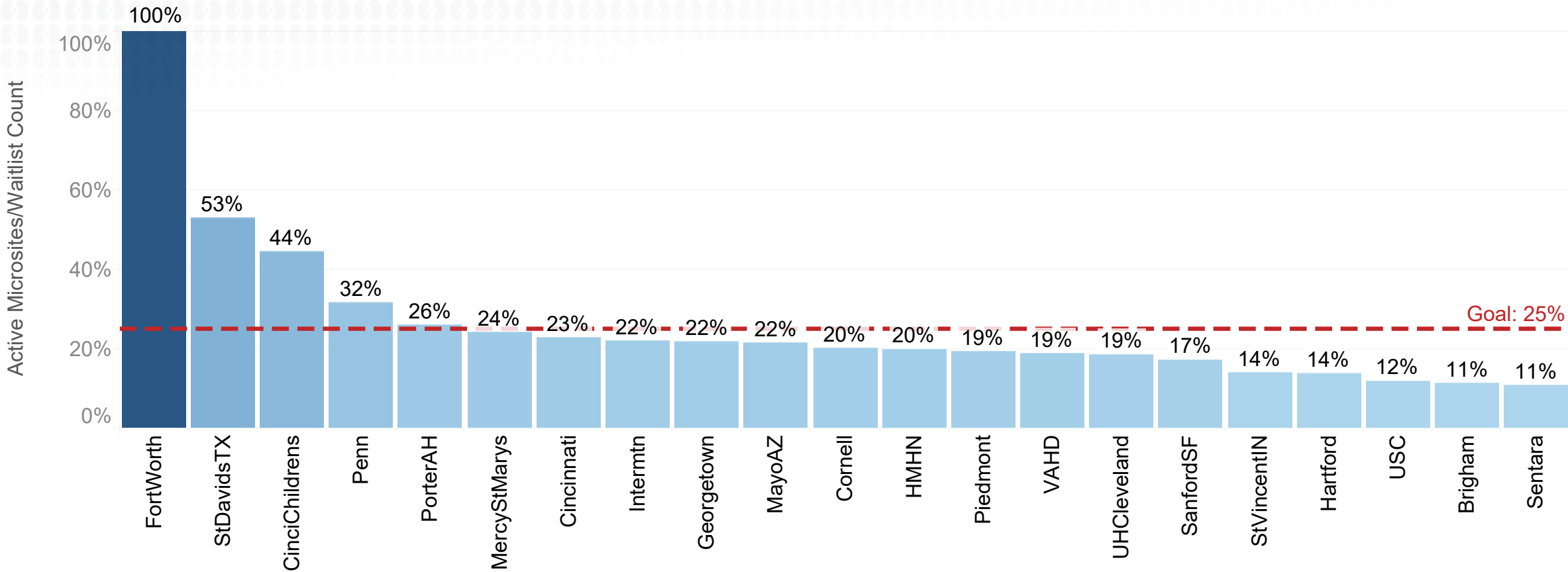


As of 9/30/2023. Includes 2 liver transplants in 2023. Non-cumulative total for each year. 2023 under-reported due to delay in transplant center reporting.



Microsite Enrollment Success

Percentage of Waitlist Patients with Microsites



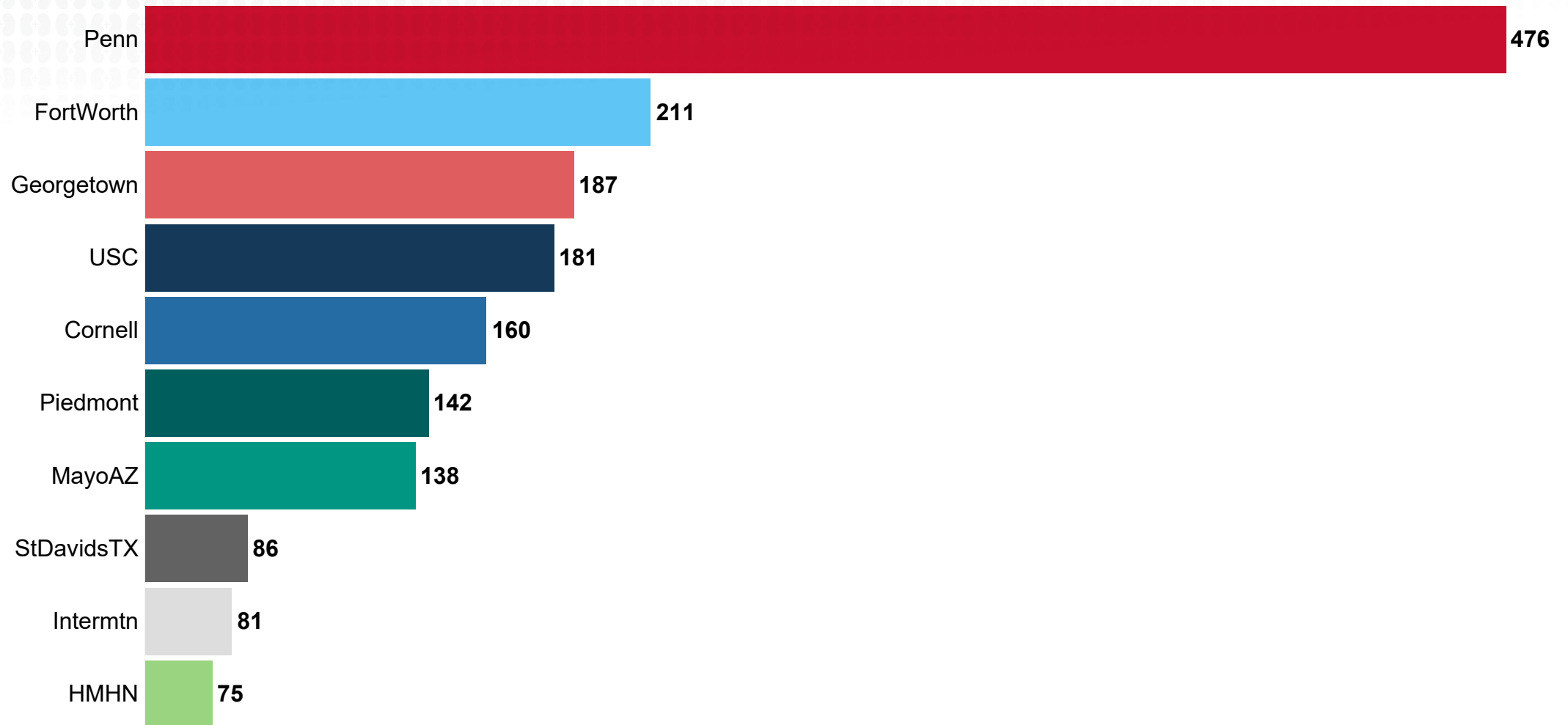
Active MS	211	86	8	476	66	72	68	81	187	138	160	75	142	26	68	13	46	51	181	58	52
Waitlist	125	162	18	1,505	252	298	295	366	855	635	793	375	730	138	365	75	325	365	1,523	507	480

NKR Microsite Data for 9/30/2023 compared to 3/2023 OPTN waitlist numbers. **Formula:** Active Microsites / Total Waitlist. Minimum 10% Success Rate.



Top 10 Centers

Most Active Microsites

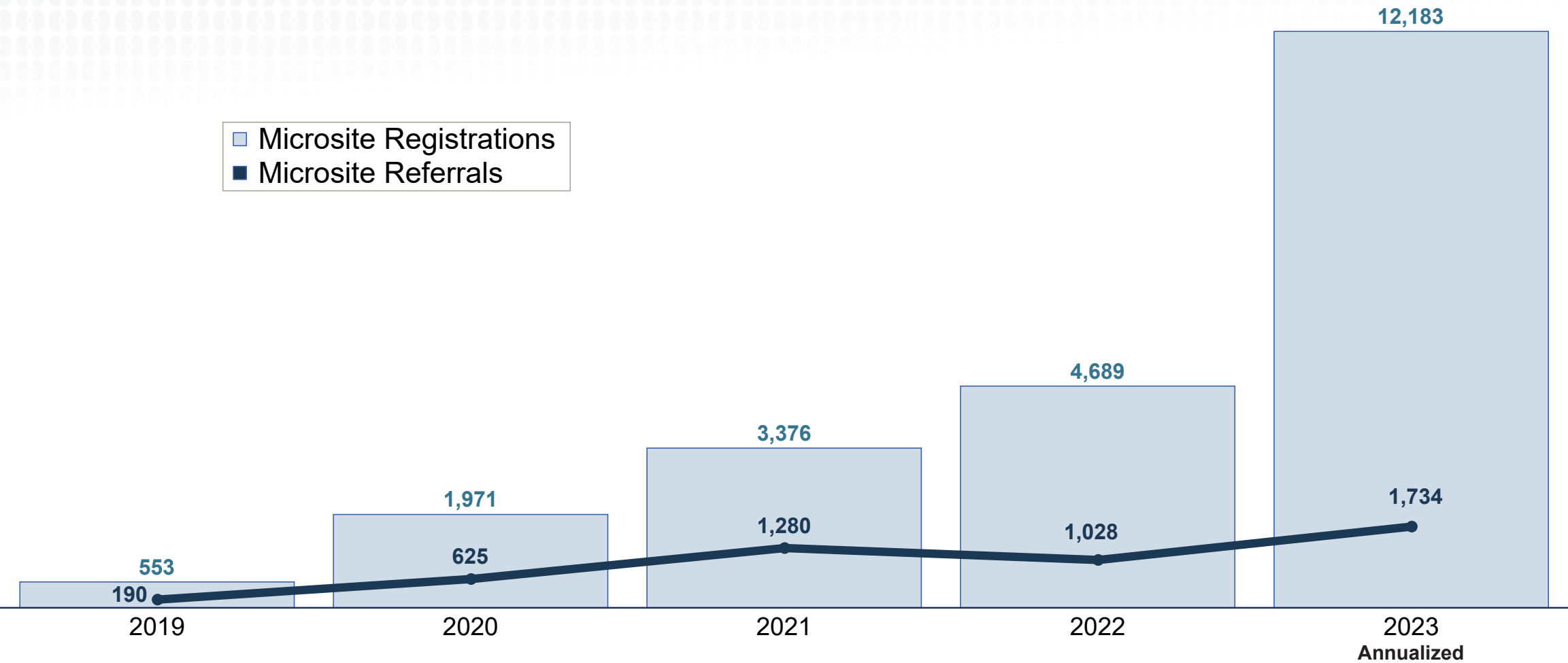


Kidney only. As of 9/30/2023.



Microsite Donor Registrations & Referrals

Dramatic Growth in Microsite Activity



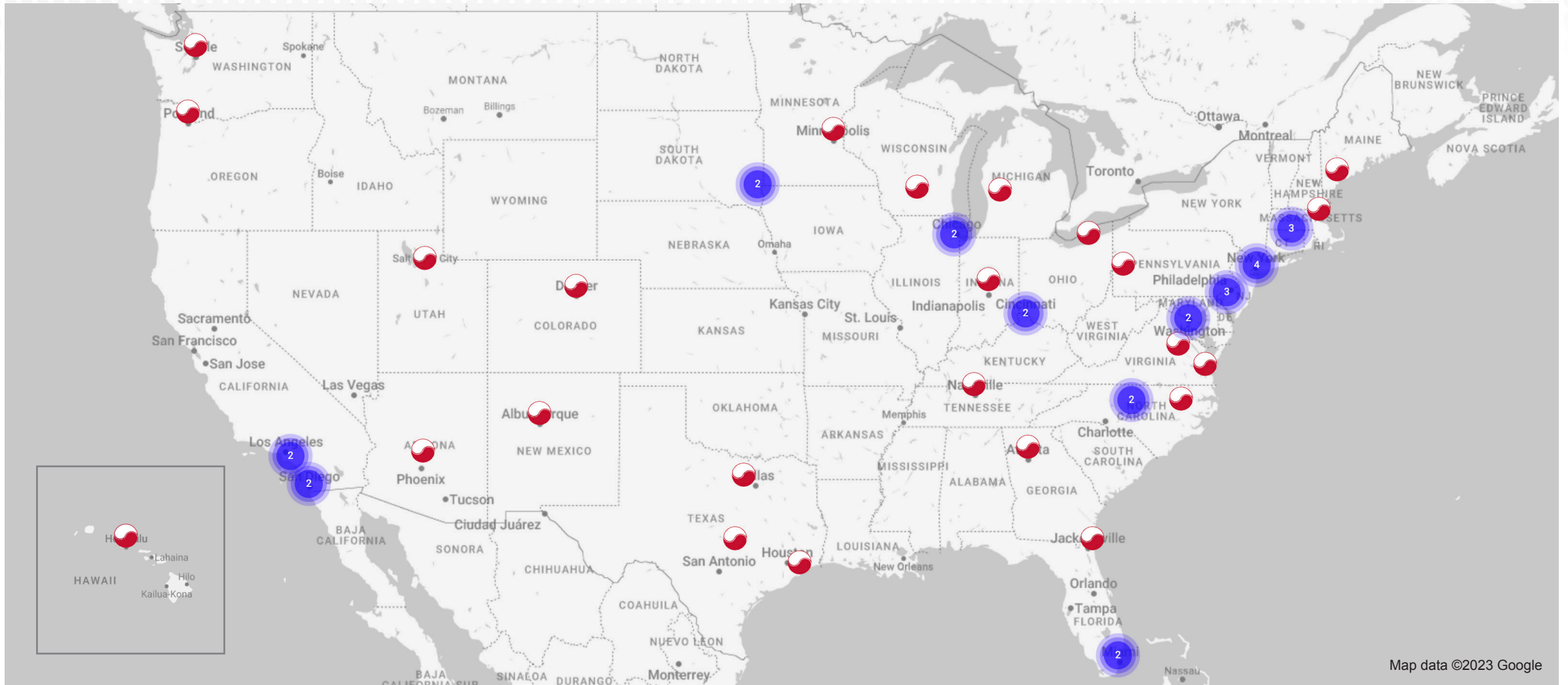
Kidney only. As of 9/30/2023.

Registration: A donor candidate who completes the first form to start the registration process (many 2023 registrants are still in the process).

Referral: A donor candidate who completed all stages of the registration process (initial labs have been required to complete microsite donor registration process since 10/2022).



Microsite Centers



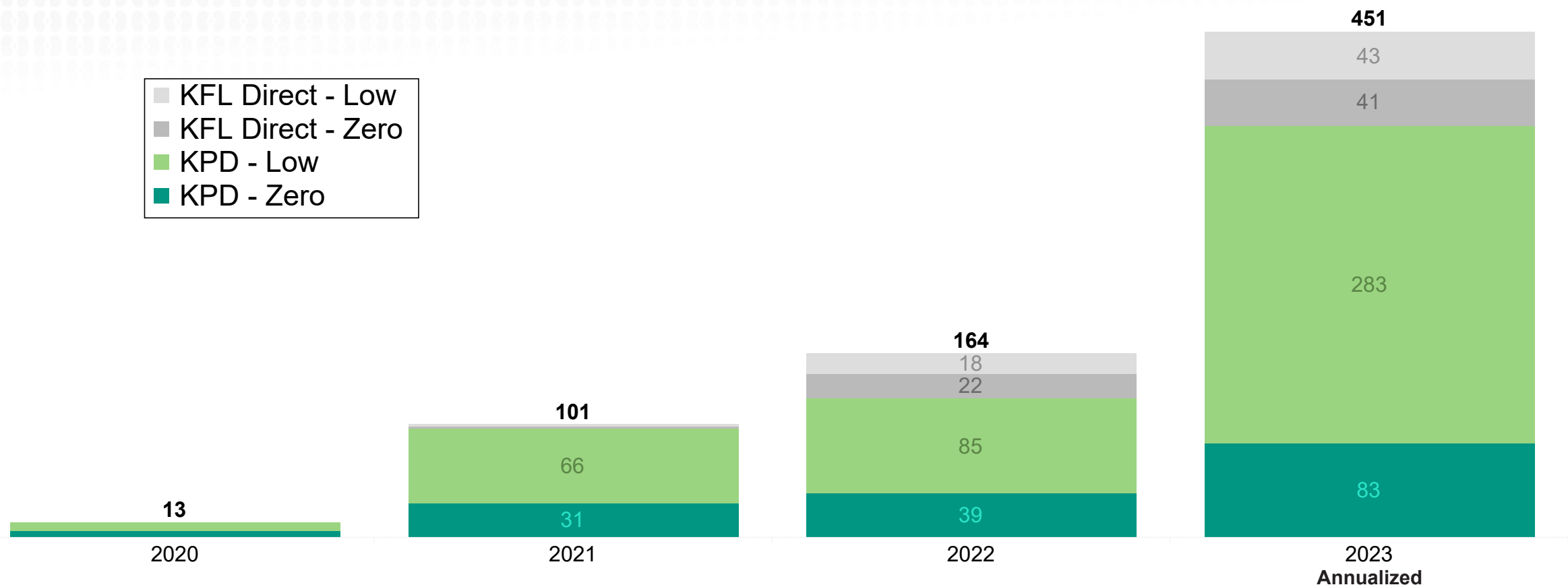
As of 11/14/2023.

To see the latest microsite participating centers [click here](#).



Kidney for Life Low Eplet Mismatch Transplants

Compatible and Incompatible Pairs

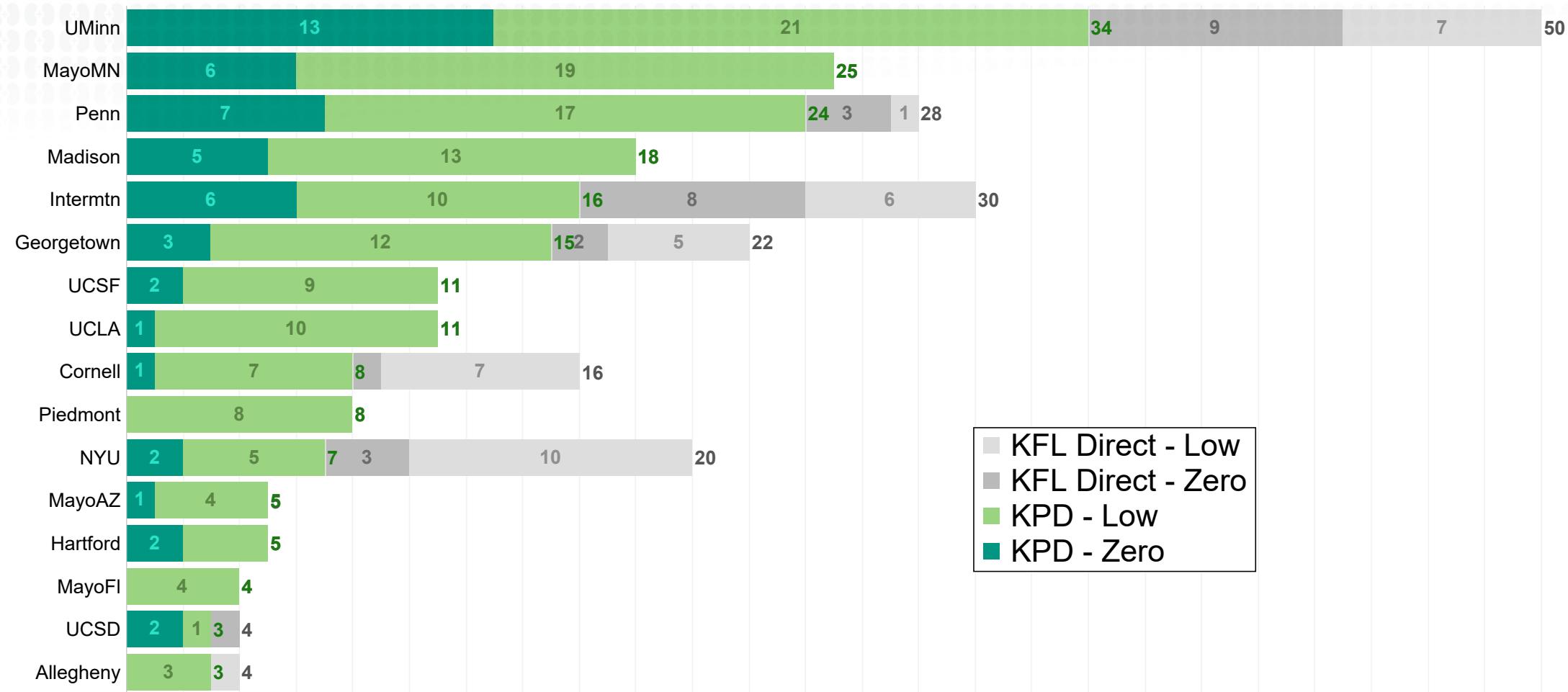


Excludes waitlist. As of 9/30/2023.
Eplet mismatch categories are based on the definition provided by Wiebe C, Kosmoliaptsis V, Pochinco D, et al. HLA-DR/DQ molecular mismatch: a prognostic biomarker for primary alloimmunity. Am J Transplant. 2019;19:1708–1719. <https://doi.org/10.1111/ajt.15177>



Kidney for Life Low Eplet Mismatch Transplants

Compatible and Incompatible Pairs 10/1/2022 – 9/30/2023

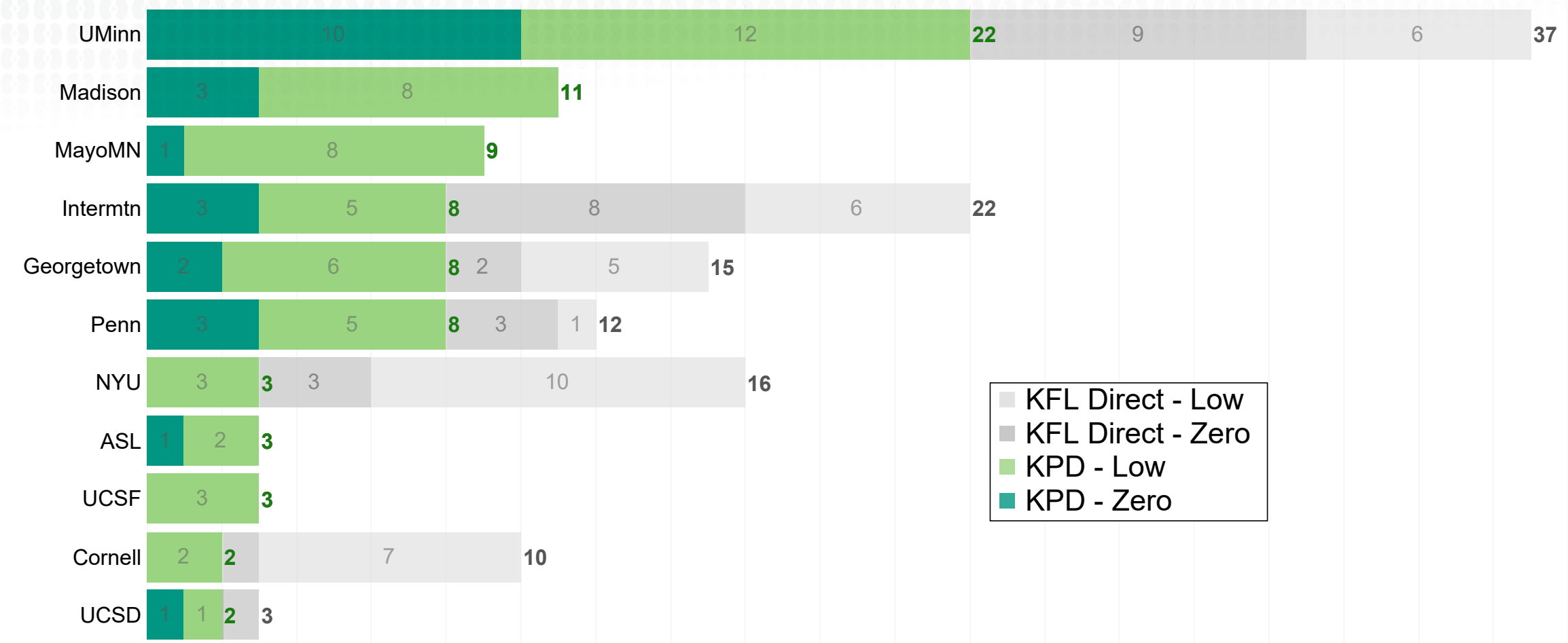


Excludes waitlist. Minimum 4 transplants. As of 9/30/2023.
Eplet mismatch categories are based on the definition provided by Wiebe C, Kosmoliaptsis V, Pochinco D, et al. HLA-DR/DQ molecular mismatch: a prognostic biomarker for primary alloimmunity. Am J Transplant. 2019;19:1708–1719. <https://doi.org/10.1111/ajt.15177>



Kidney for Life Low Eplet Mismatch Transplants

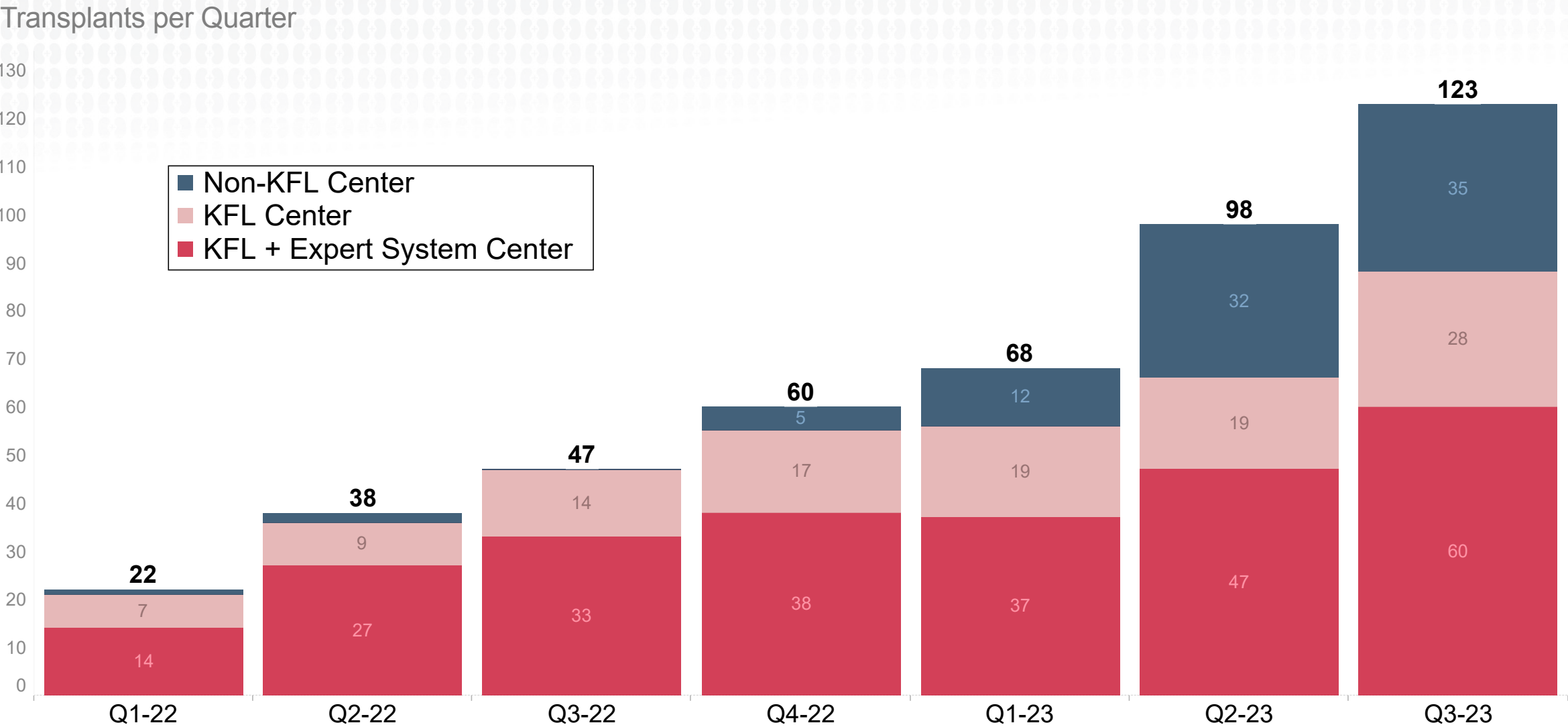
Compatible Pairs 10/1/2022 – 9/30/2023



Excludes waitlist. Minimum 3 transplants. As of 9/30/2023.
Eplet mismatch categories are based on the definition provided by Wiebe C, Kosmoliaptsis V, Pochinco D, et al. HLA-DR/DQ molecular mismatch: a prognostic biomarker for primary alloimmunity. Am J Transplant. 2019;19:1708–1719. <https://doi.org/10.1111/ajt.15177>



Kidney for Life Low Eplet Mismatch

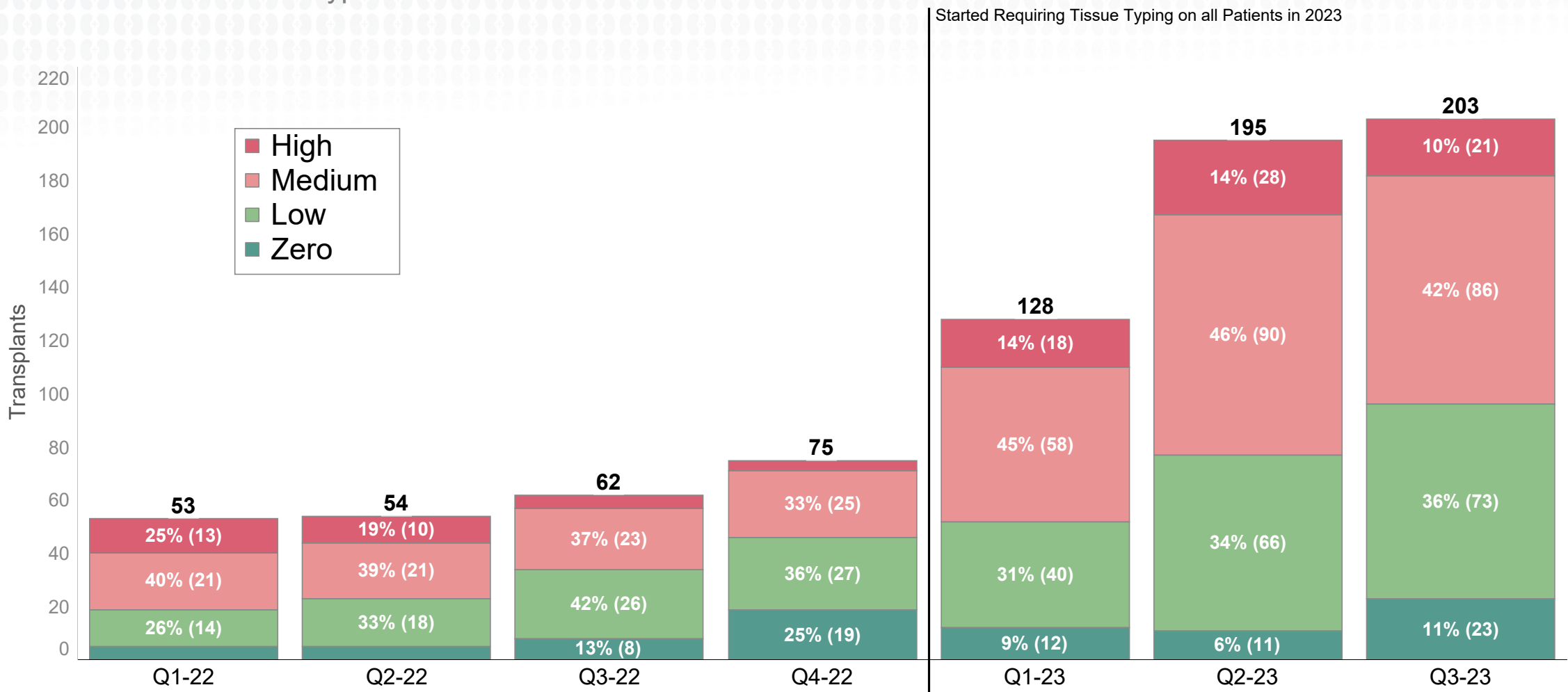


As of 9/30/2023. Low eplet mismatch transplants include Kidney for Life internal direct.



Total Eplet Mismatch Transplants by Type

Voucher & Paired Patient Types

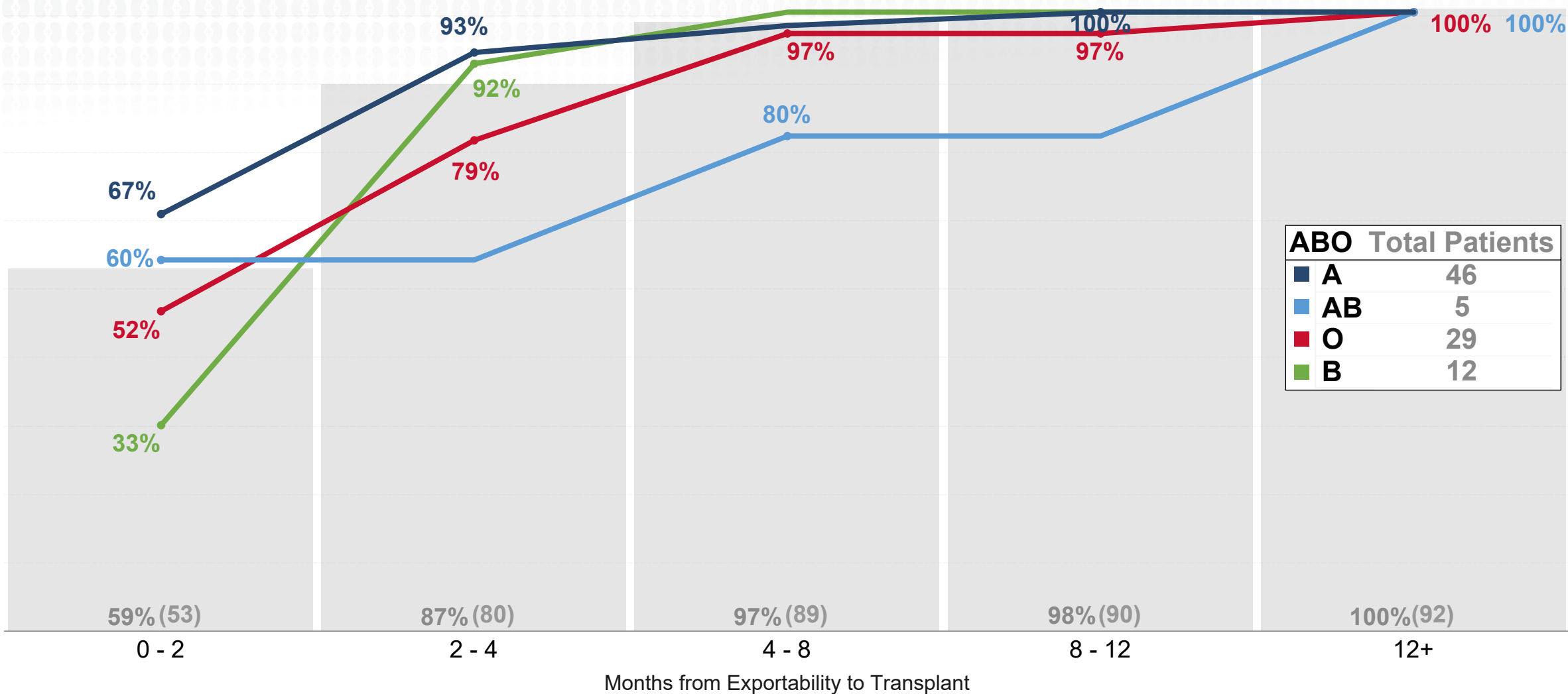


As of 9/30/2023.
Eplet mismatch categories are based on the definition provided by Wiebe C, Kosmoliaptsis V, Pochinco D, et al. HLA-DR/DQ molecular mismatch: a prognostic biomarker for primary alloimmunity. Am J Transplant. 2019;19:1708–1719. <https://doi.org/10.1111/ajt.15177>



Actual Wait Times to Transplant

Compatible Pairs Who Received a Low Eplet Mismatch Transplant

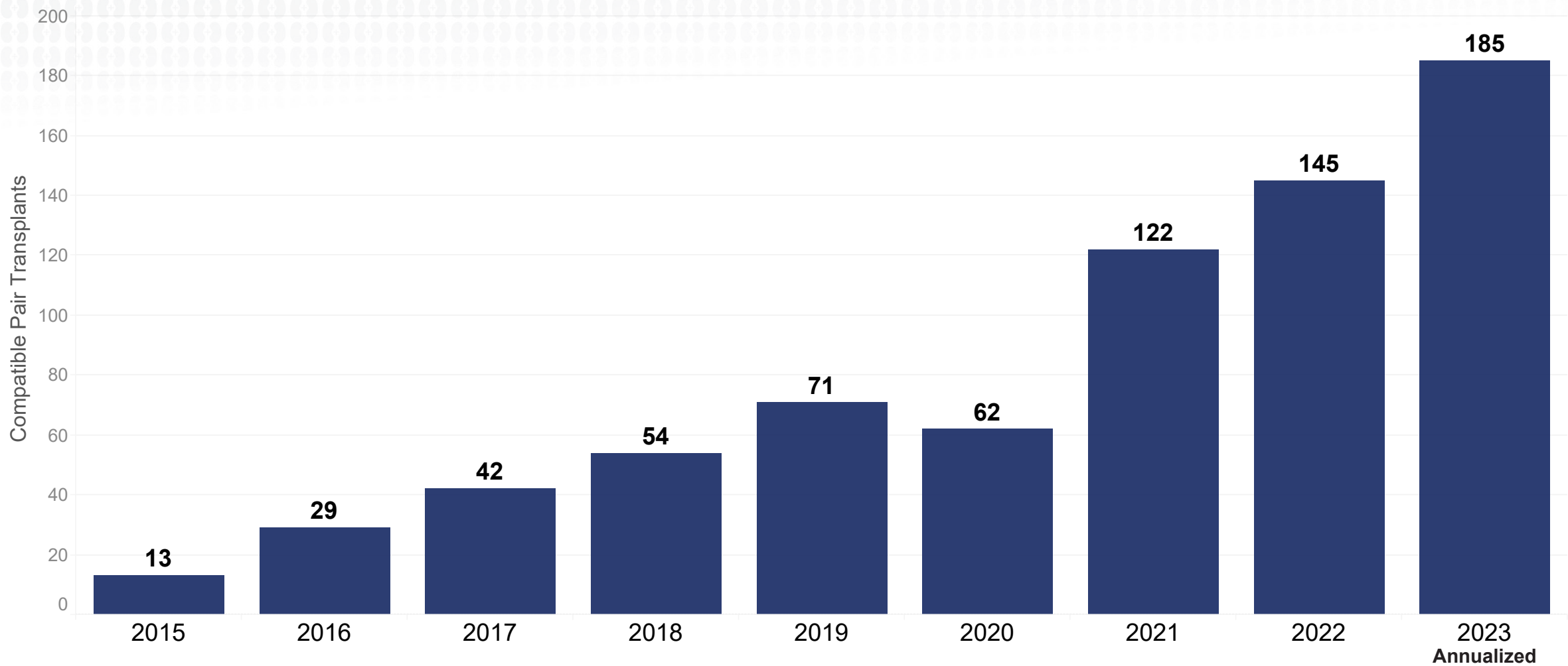


Last 12 months to date – as of 9/30/2023. cPRA ≤ 99



Compatible Pair Transplants

The KFL Initiative Leads to More Compatible Pairs & Shorter Wait Times Across the Network

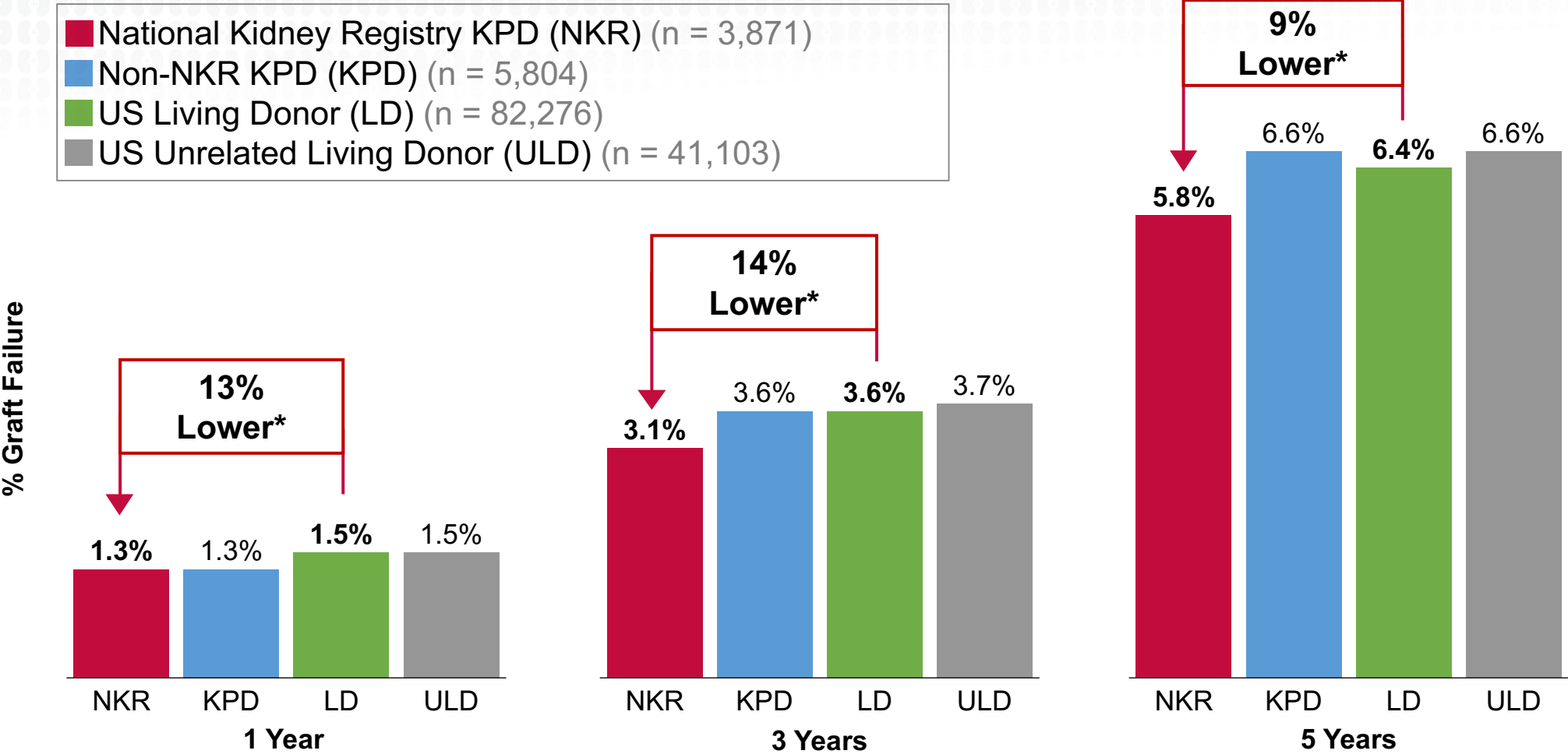


*Voucher & paired donations across the network. As of 9/30/2023.
A compatible pair is defined as a donor and recipient who are biologically compatible via blood type and antibody compatibility.*



Death Censored Graft Failure Comparisons

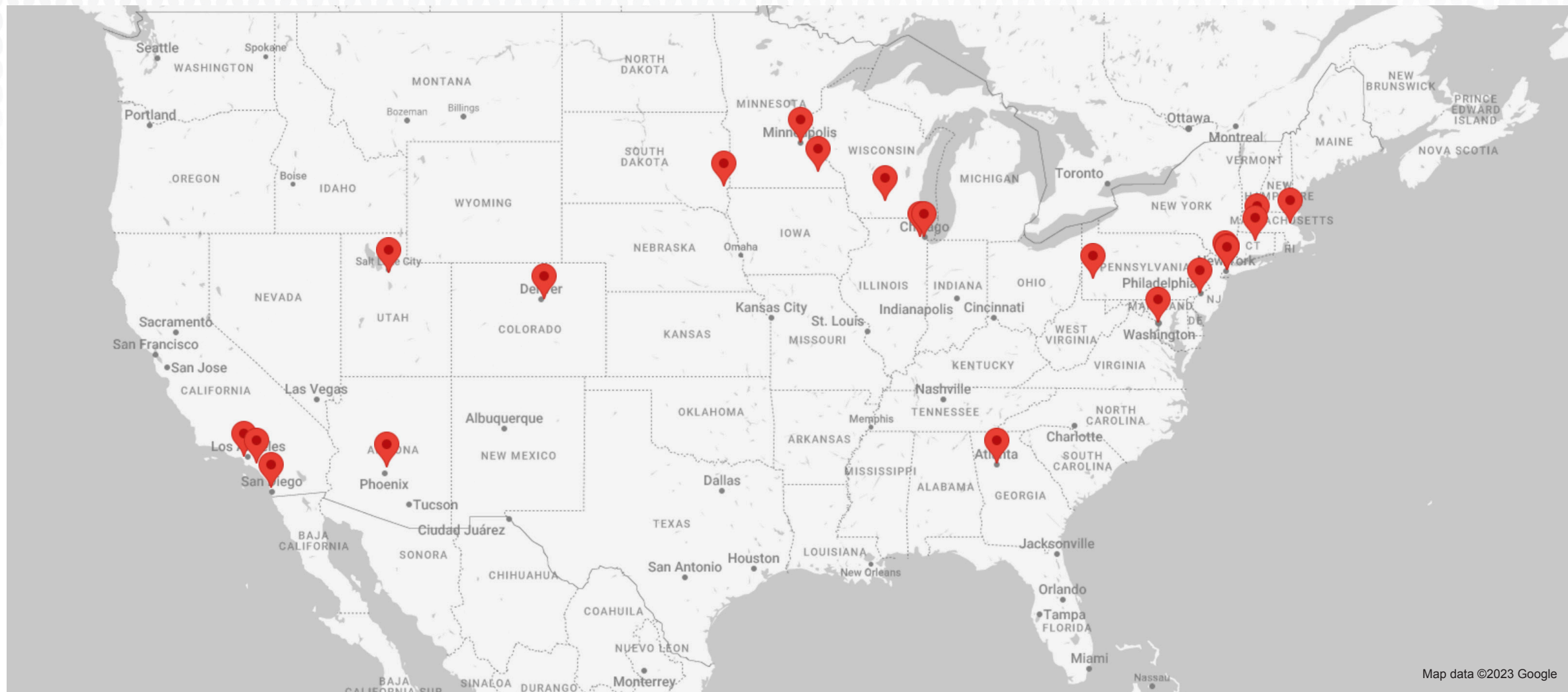
Latest Data Shows That NKR Outcomes Continue to Improve



***Statistically significant**
Provided courtesy of NYU Grossman School of Medicine, Department of Surgery *Not including waitlist patients; Kaplan-Meier GS Rates for Transplants Performed: 2/2008 – 5/2023 with follow-up through 6/30/2023. <https://www.str.org/SRTR> data as of 8/2022.



Kidney for Life Centers



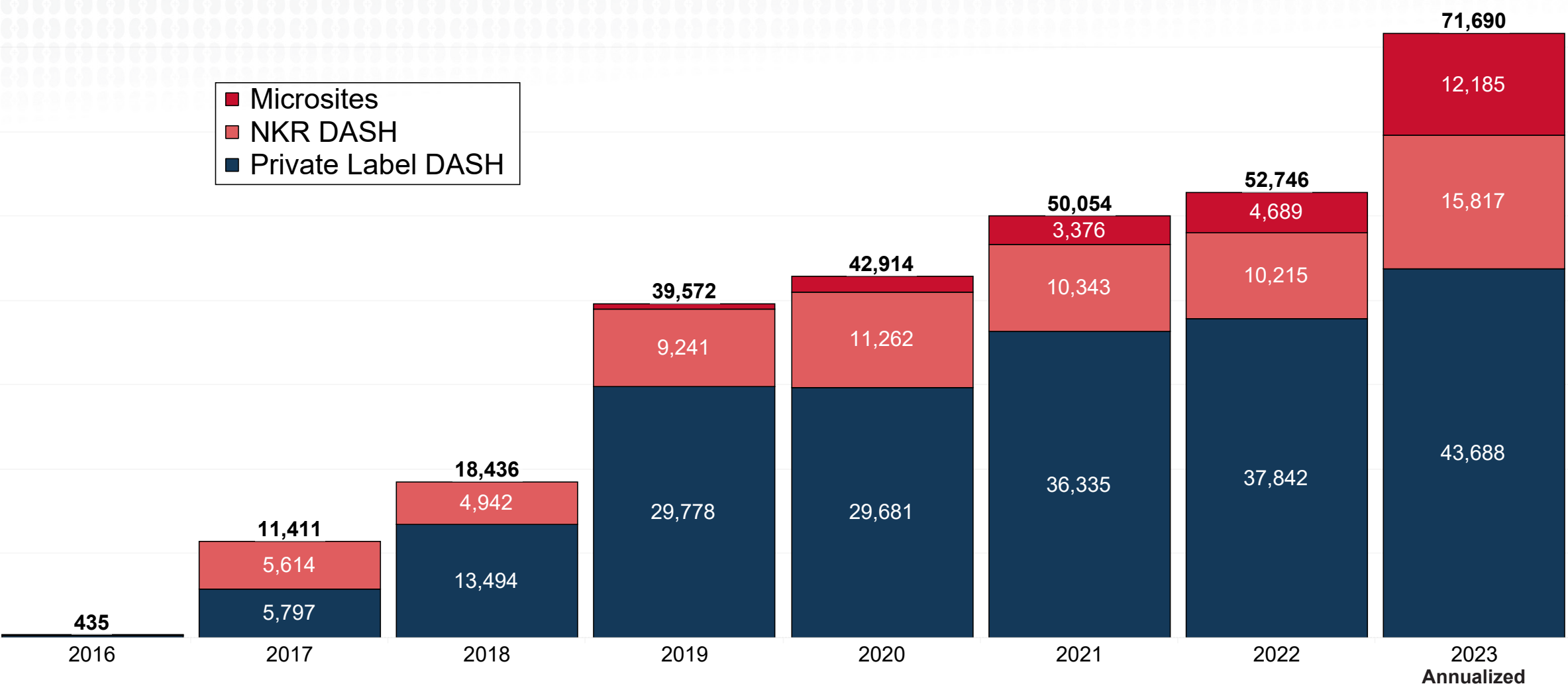
As of 11/14/2023.

To see the latest Kidney for Life participating centers [click here](#).



Living Kidney Donor Registrations

Across All DASH Intake Platforms

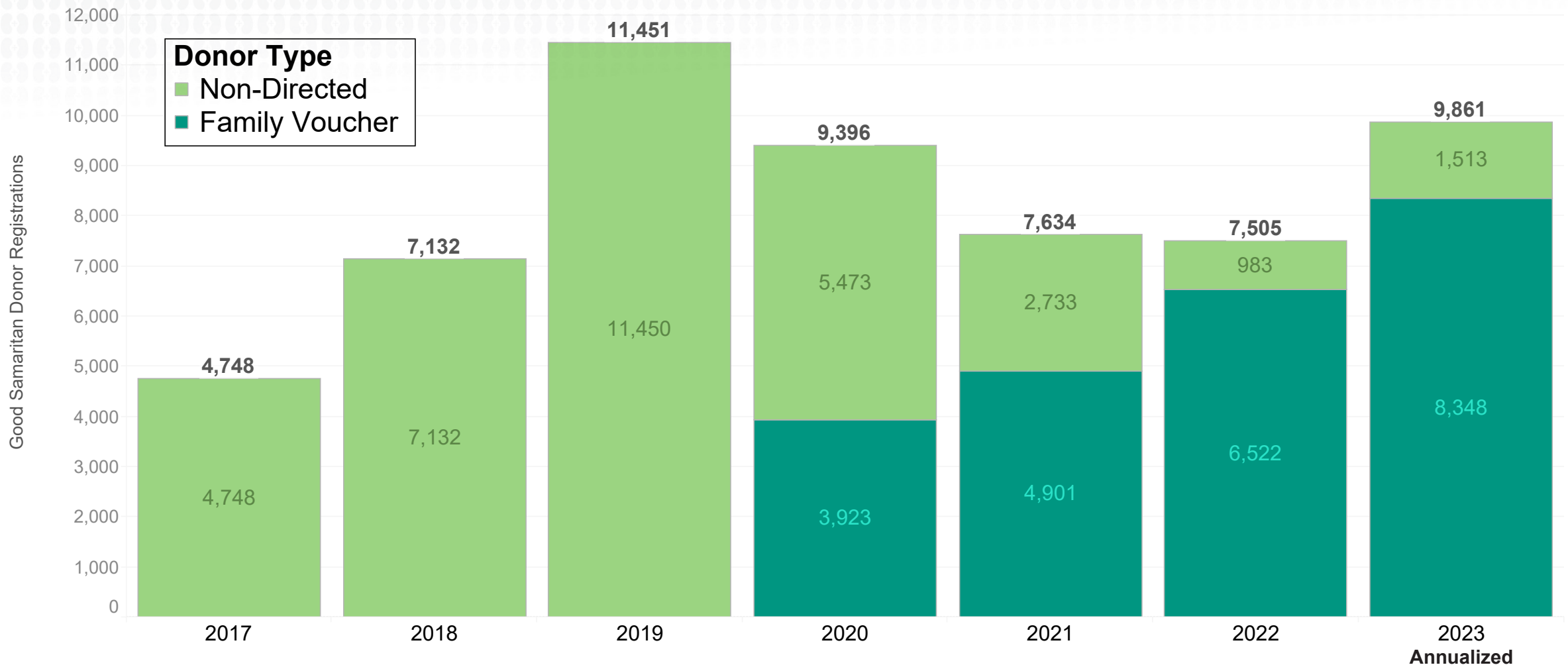


As of 9/30/2023.



Good Samaritan Donor Candidate Registrations

Kidney Registrations Across All DASH Intake Platforms

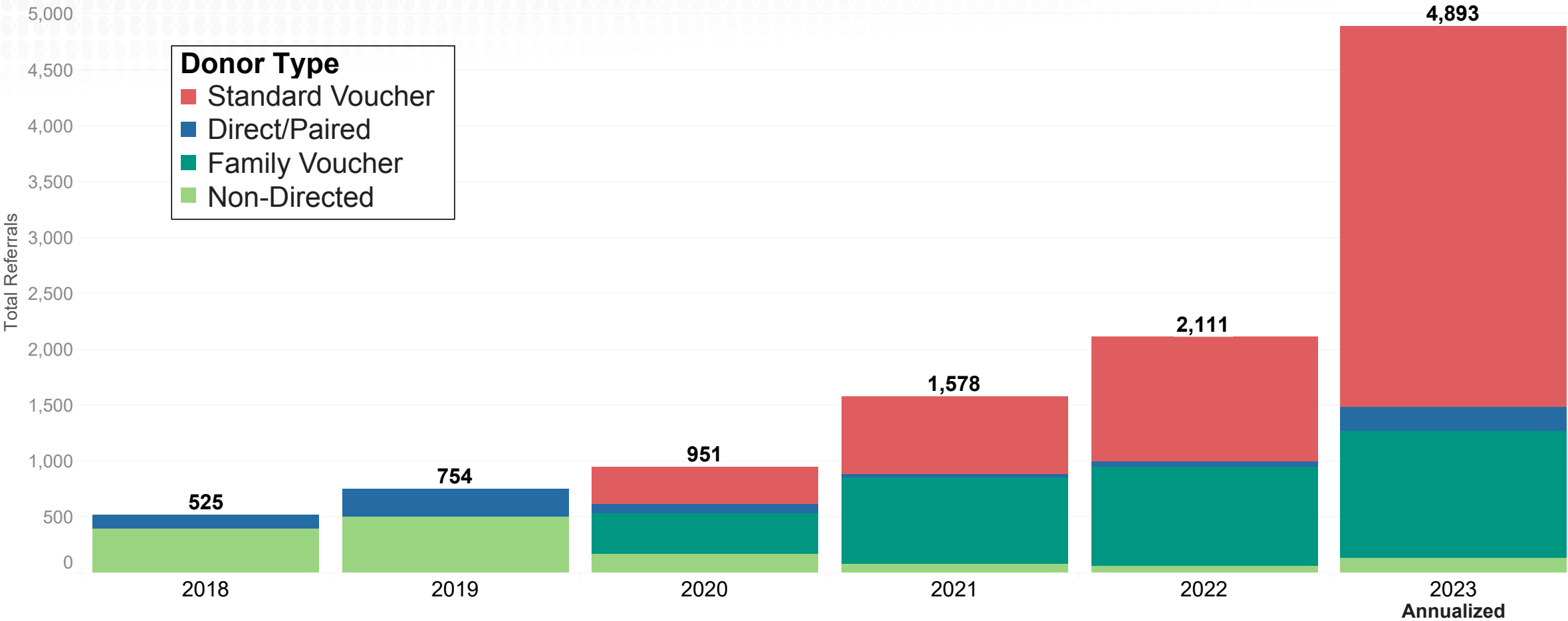


As of 9/30/2023.



NKR Living Kidney Donor Referrals

Completed Online Screening, Medical History and Labs

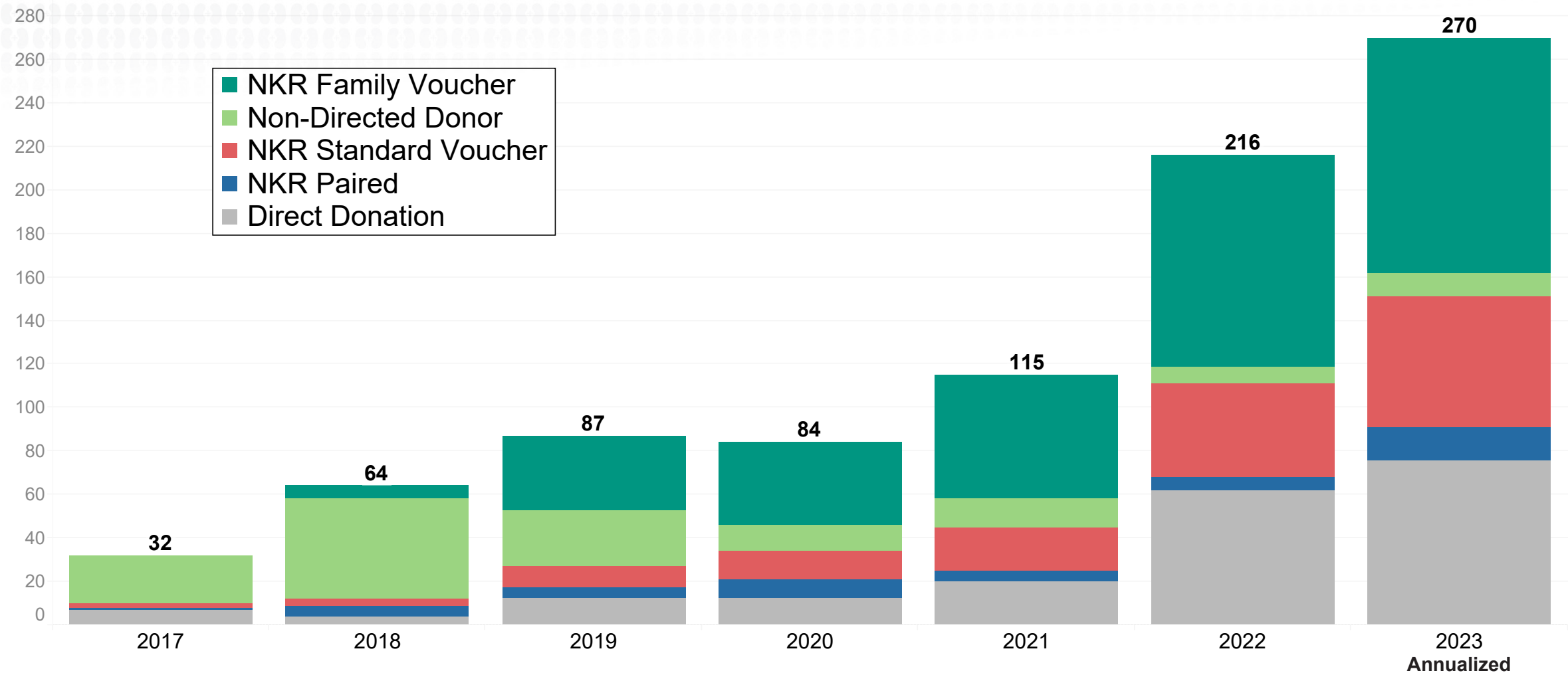


As of 9/30/2023.
Includes living kidney donor registrants from all NKR websites.



Living Kidney Donations

Resulting from NKR Donor Referrals

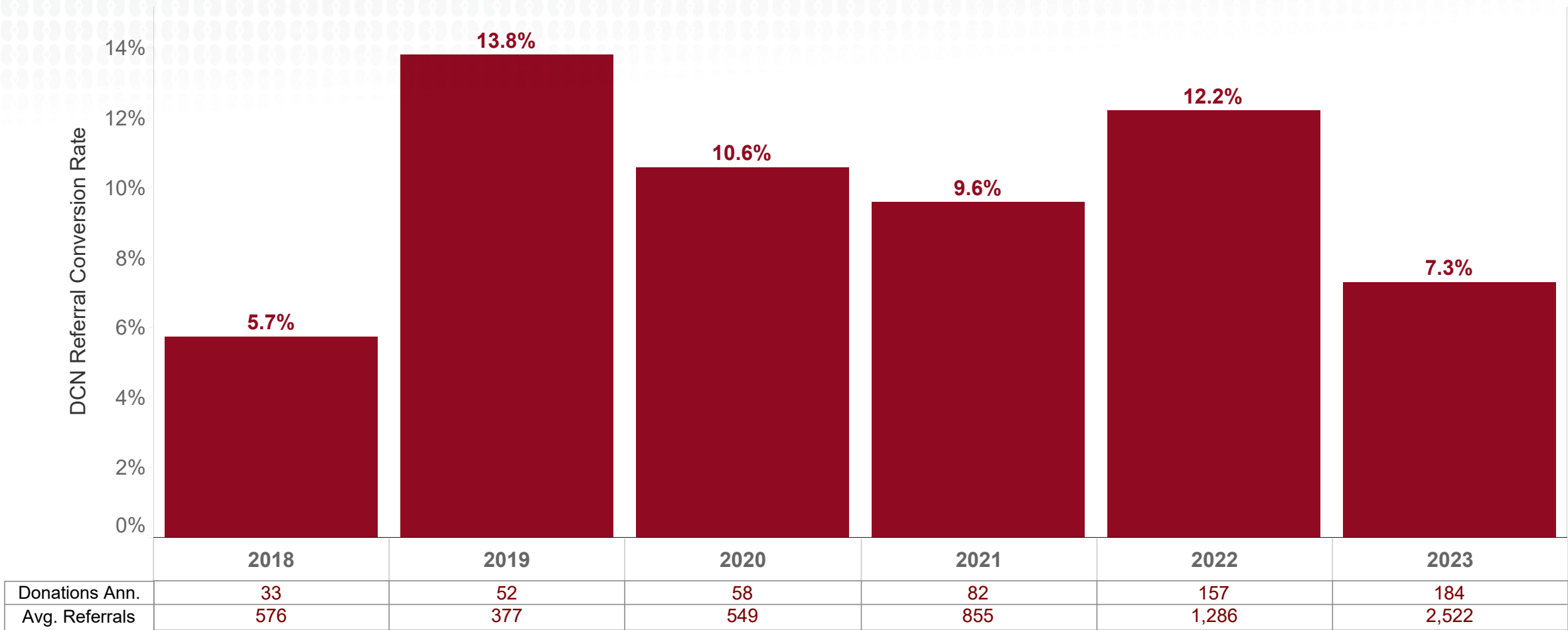


As of 9/30/2023.



DCN Living Kidney Donor Conversion Rate

Donations Divided by Average Referrals

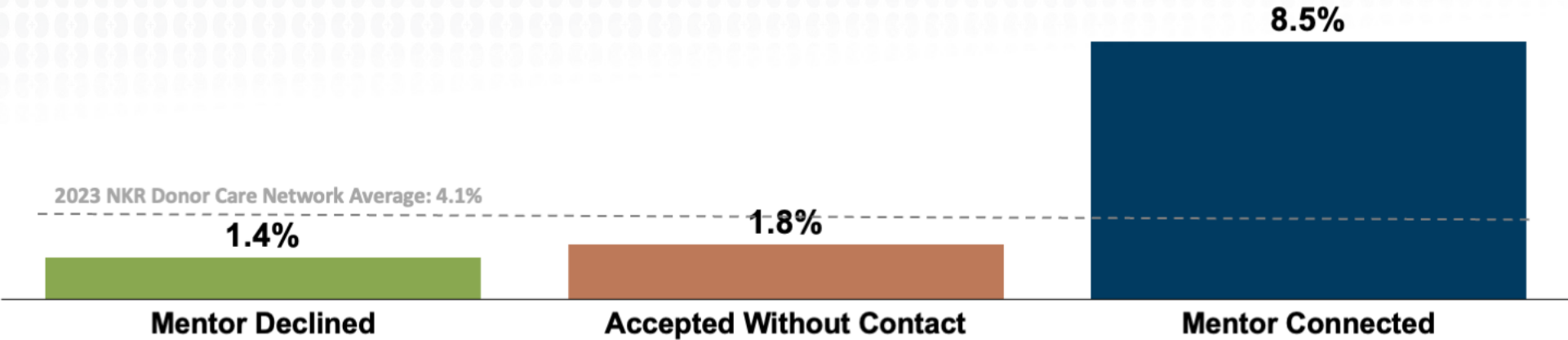


As of 9/30/2023.
Formula: Donations / Average Referrals
Average Referrals: (Annualized Current Year Referrals + Prior Year Referrals) /2
DCN=Donor Care Network Center of Excellence. An elite group of transplant centers offering the highest level of care and support to living kidney donors.



Higher Conversion Rates with Donor Connect

Private Label DASH Donations / Average Registrations



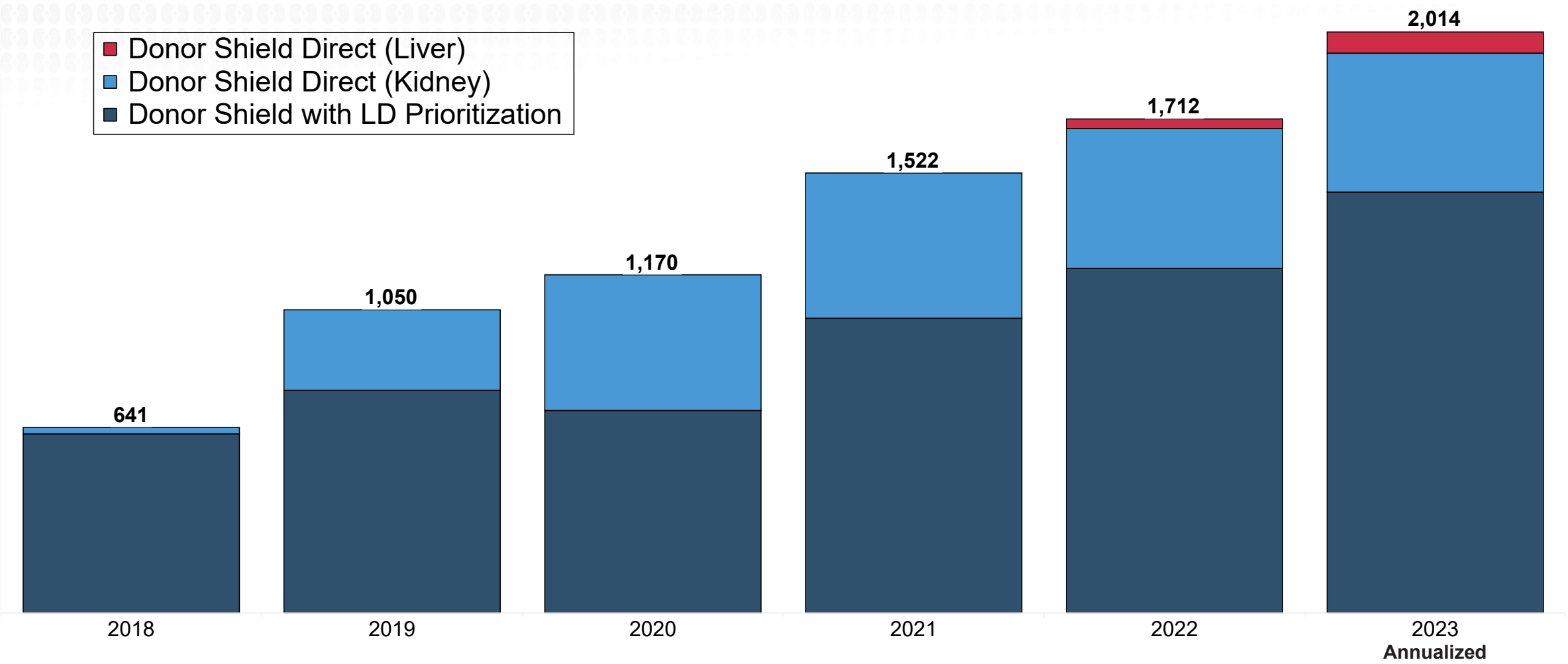
	Declined Mentor During Registration	Accepted & Assigned, but No Contact Made	Fully Mentored Donor Candidates
2023 Donations Annualized	138	106	496
2023 Registrations Annualized	12,207	6,297	6,898
2022 Registrations	7,866	5,780	4,723
Average Registrations	10,037	6,039	5,811
Conversion Rate	1.4%	1.8%	8.5%

Data for all private label DASH registrants across all centers who were offered a mentor during registration (43% in 2022). As of 9/30/2023.



Living Donors Supported and Protected

By Donor Type

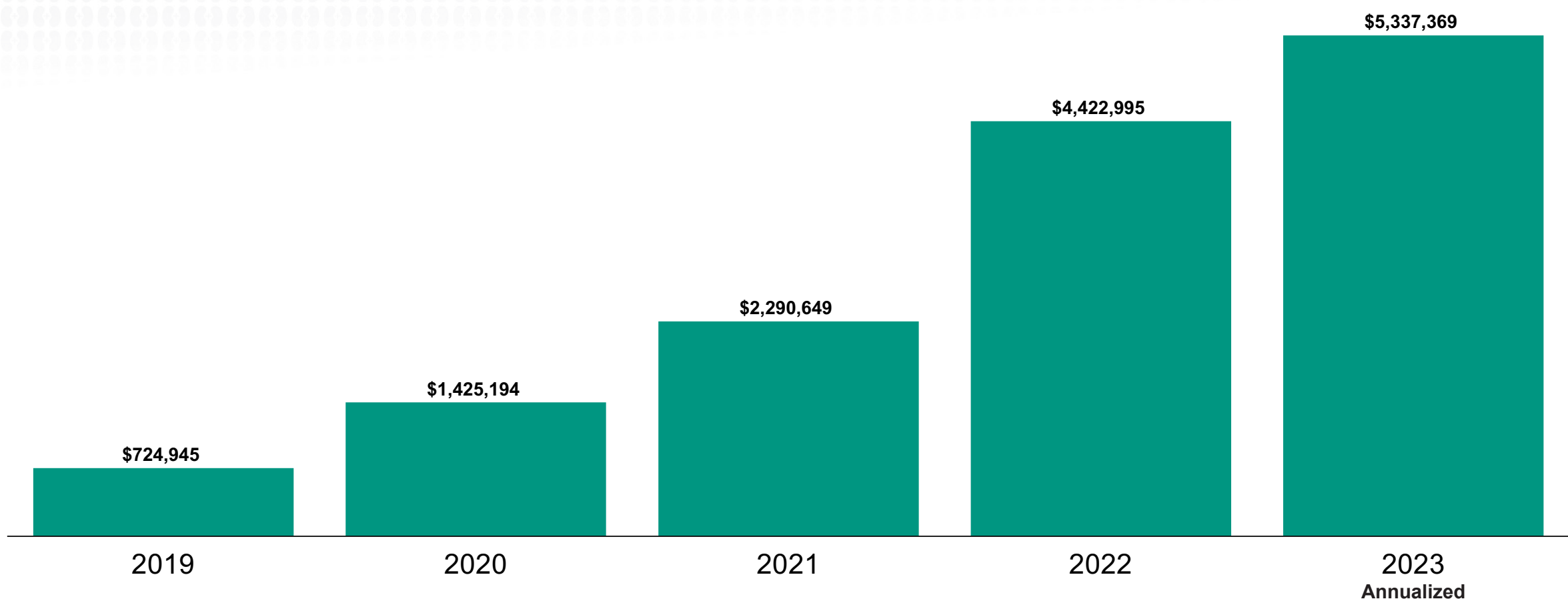


As of 9/30/2023. Living donor prioritization excluded for Donor Shield Direct kidney and liver cases.



Donor Shield Reimbursements

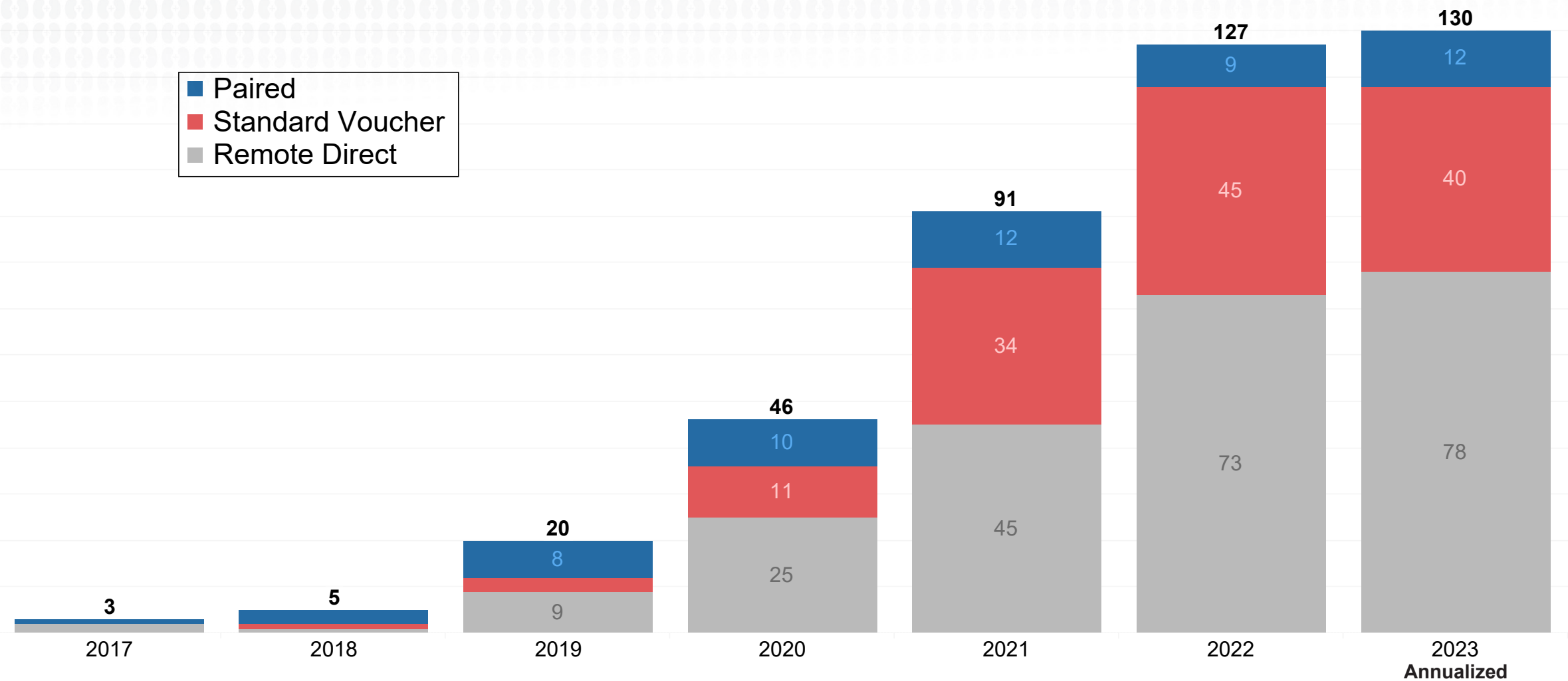
The NKR is Reimbursing Over \$5M Annually to Eliminate Disincentives



As of 9/30/2023.
Primary costs related to lost wage and travel/lodging reimbursements.



Remote Donations by Donor Type

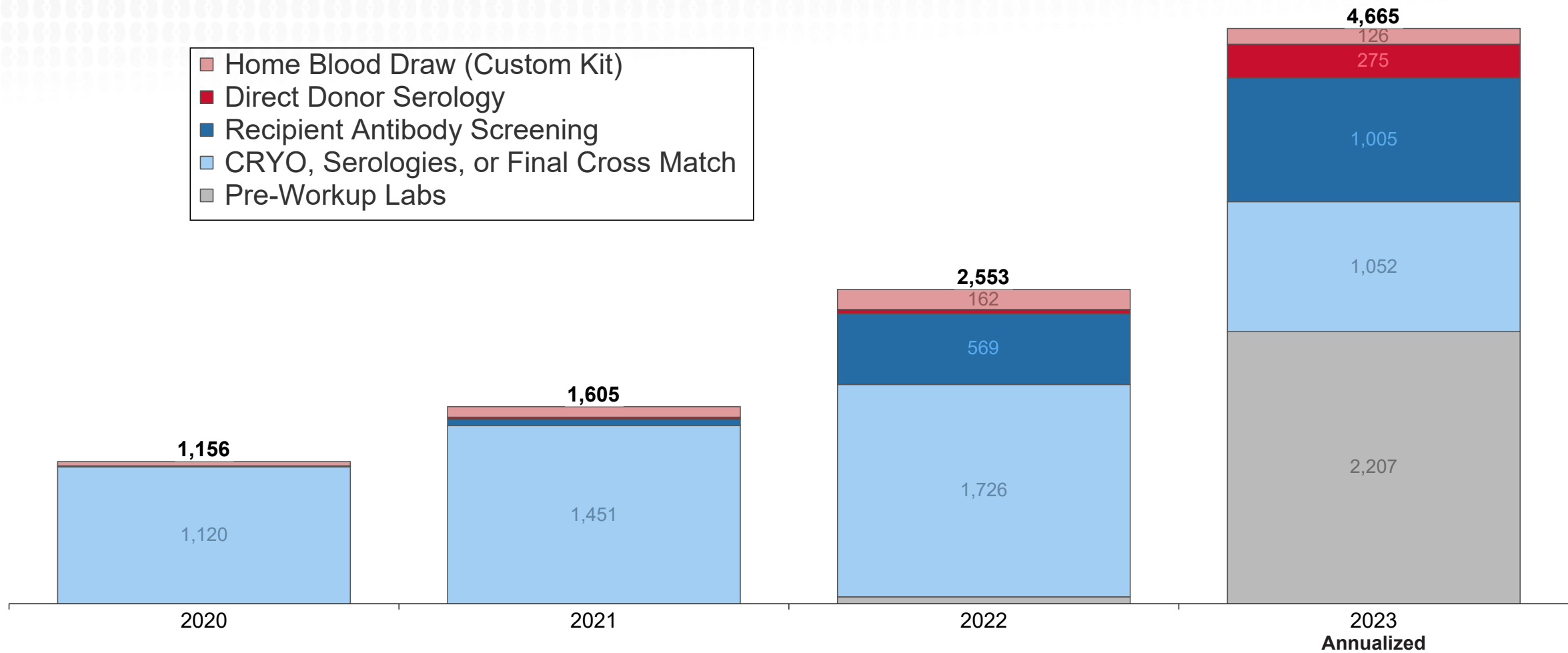


As of 9/30/2023.



Home Blood Draw Requests

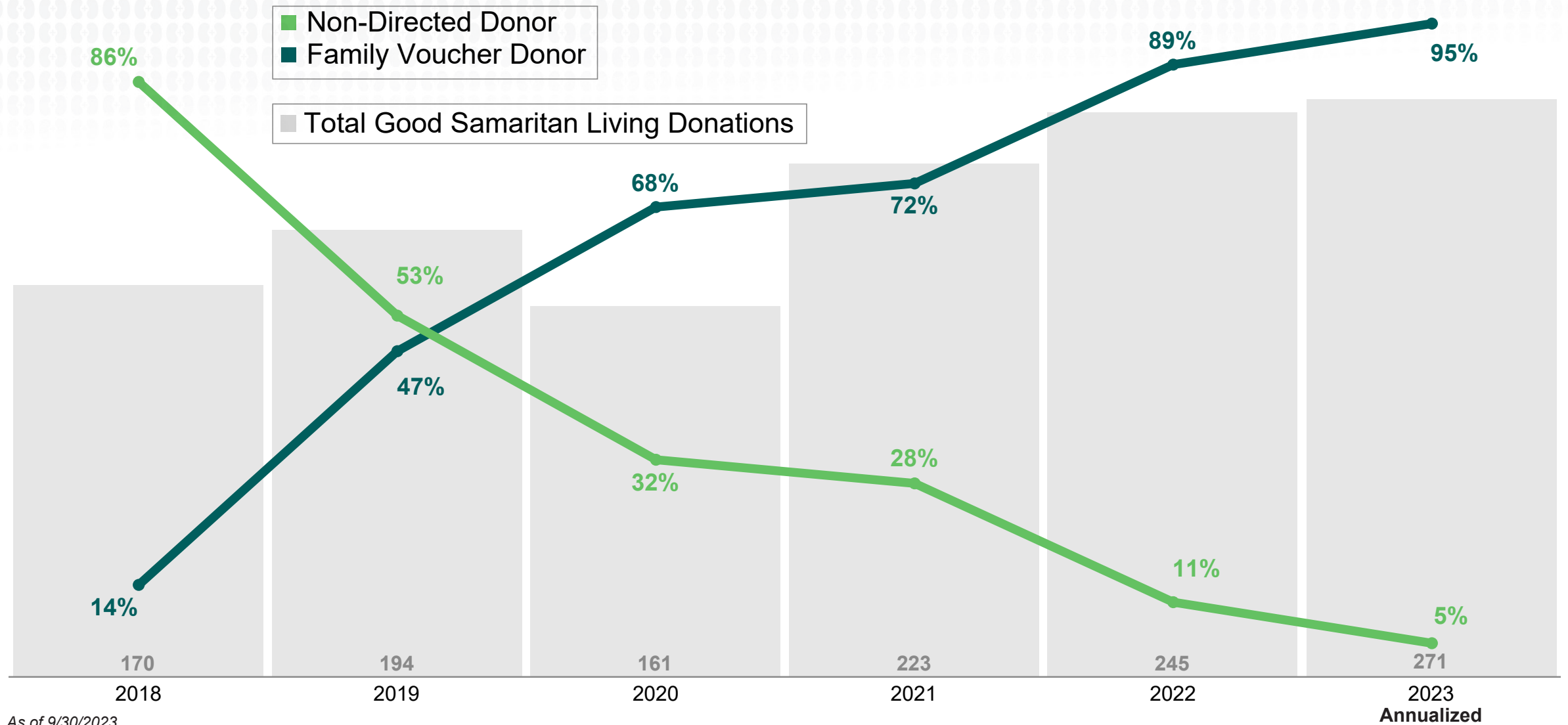
Managed by the National Kidney Registry



As of 9/30/2023.



Transition to Family Voucher Donation

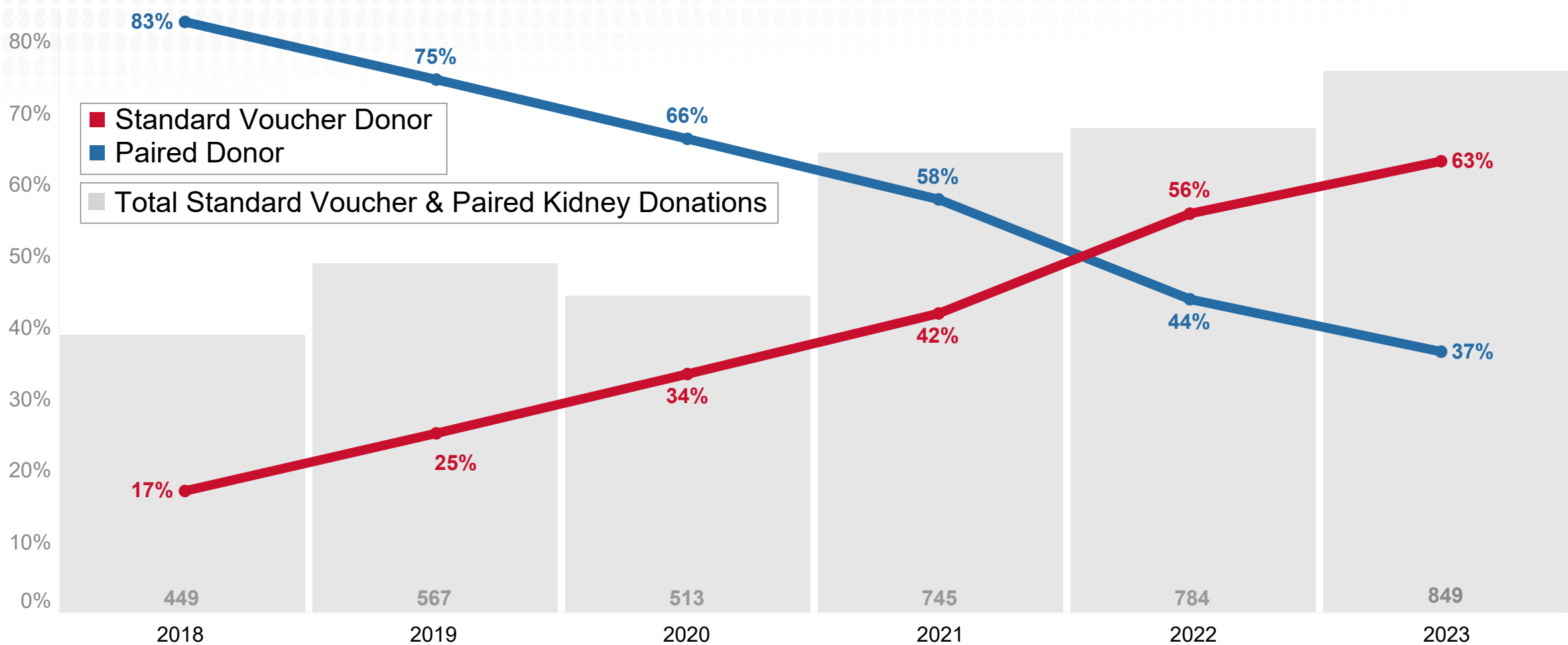


As of 9/30/2023.



Transition to Standard Voucher Donation

Decoupling Trend

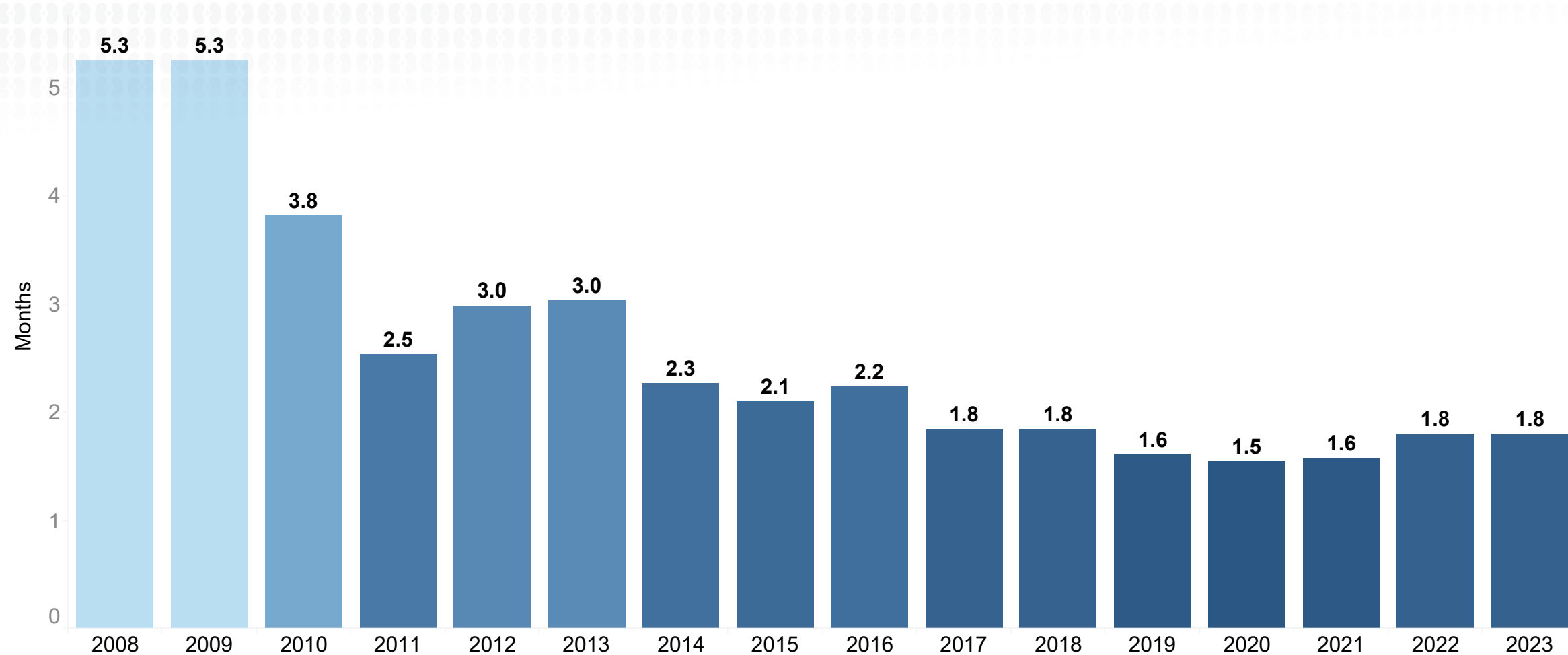


As of 9/30/2023.



Median Wait Time to Transplant

From Exportability to Transplant

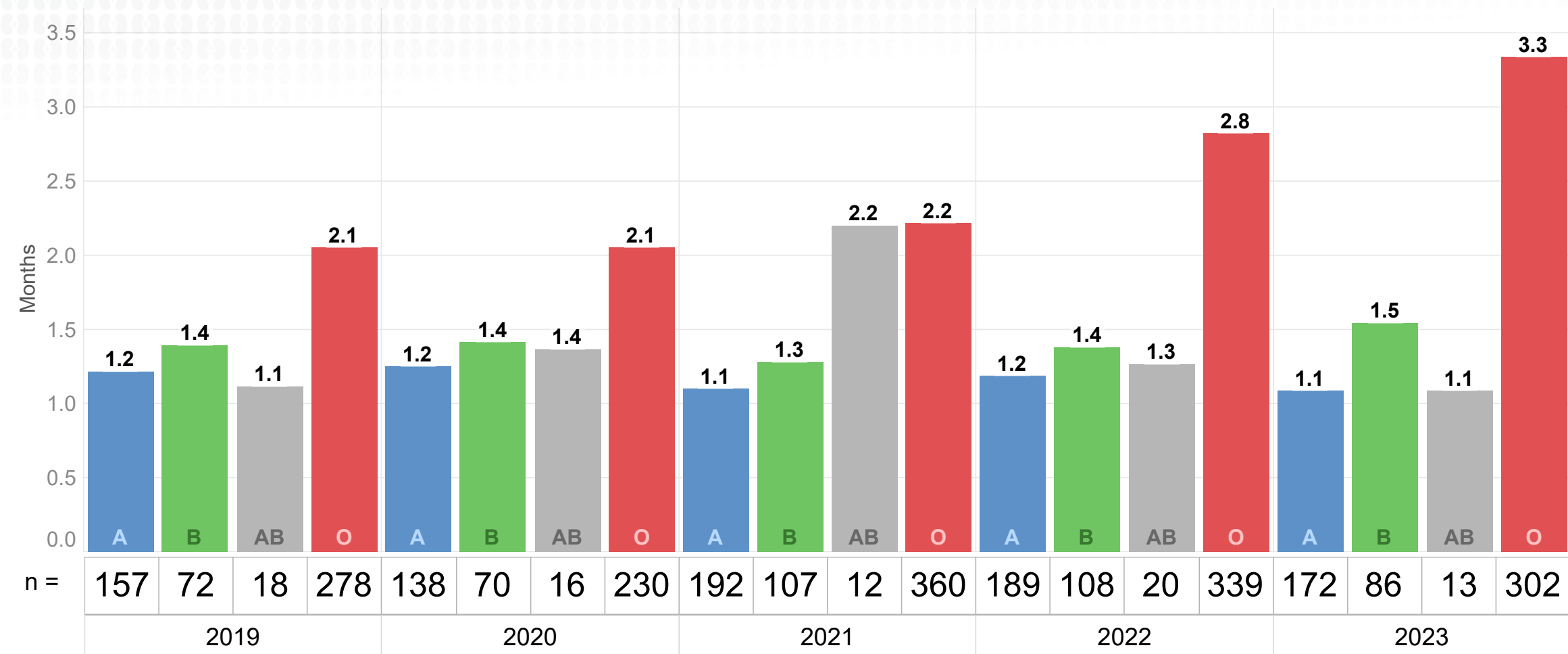


*Total wait time including paired and voucher. Excludes non-KPD and waitlist patient transplants.
As of 9/30/2023.*



Median Wait Time by Blood Type

From Exportability to Transplant

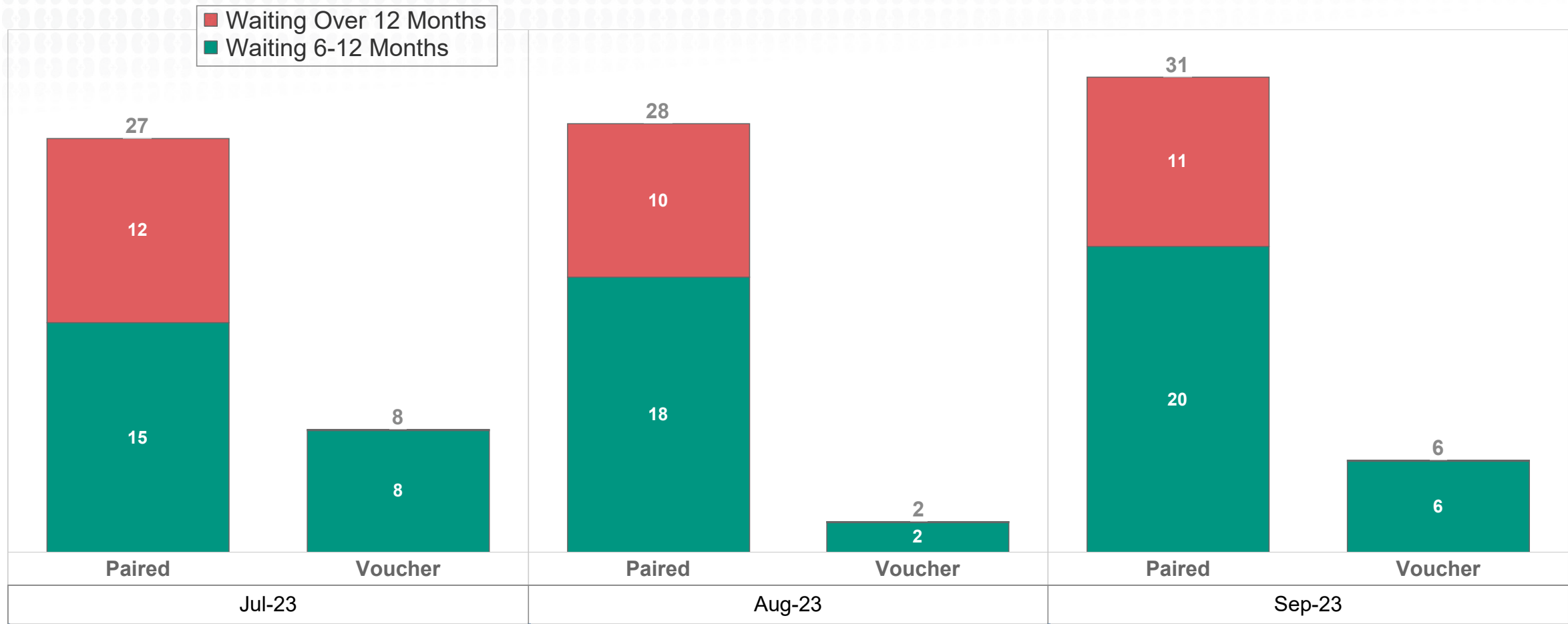


Total wait time including paired and voucher. Excludes non-KPD and waitlist patient transplants.
As of 9/30/2023.



Voucher Holder Patients Have Shorter Wait Times

Low cPRA Matchable Patients

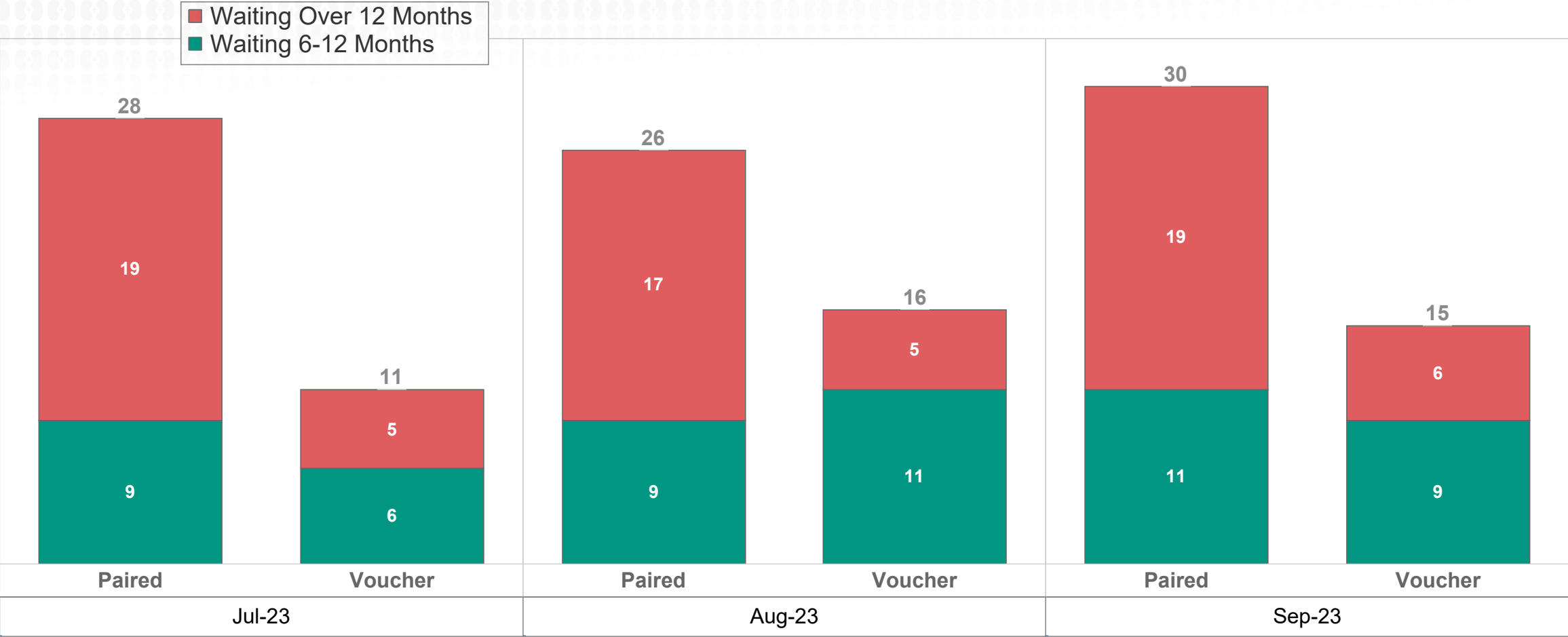


Excludes patients waiting less than 6 months. Snapshot of the last day of each month. As of 9/30/2023.
Matchable patients have at least one compatible donor in the pool.



Voucher Holder Patients Have Shorter Wait Times

High cPRA Unmatchable Patients



Excludes patients waiting less than 6 months. Snapshot of the last day of each month. As of 9/30/2023. Unmatchable patients have no compatible donors in the pool.



Dialysis Patients Waiting More Than One Year

Due to High cPRA

Paired Patients

#	Patient ID	Patient ABO	cPRA	Months Wait
1	5501	B	100.00	94
2	12411	A	100.00	36
3	10569	A	100.00	27
4	14941	O	100.00	22
5	15282	O	100.00	21
6	15355	O	100.00	20
7	15347	A	100.00	20
8	15582	O	100.00	17
9	16411	O	100.00	14
10	10986	O	99.99	44
11	11785	A	99.99	27
12	16200	O	99.99	16
13	12565	O	99.98	30
14	14460	O	99.95	21
15	13846	A	99.91	24
16	12531	O	99.90	29
17	15904	O	99.35	18

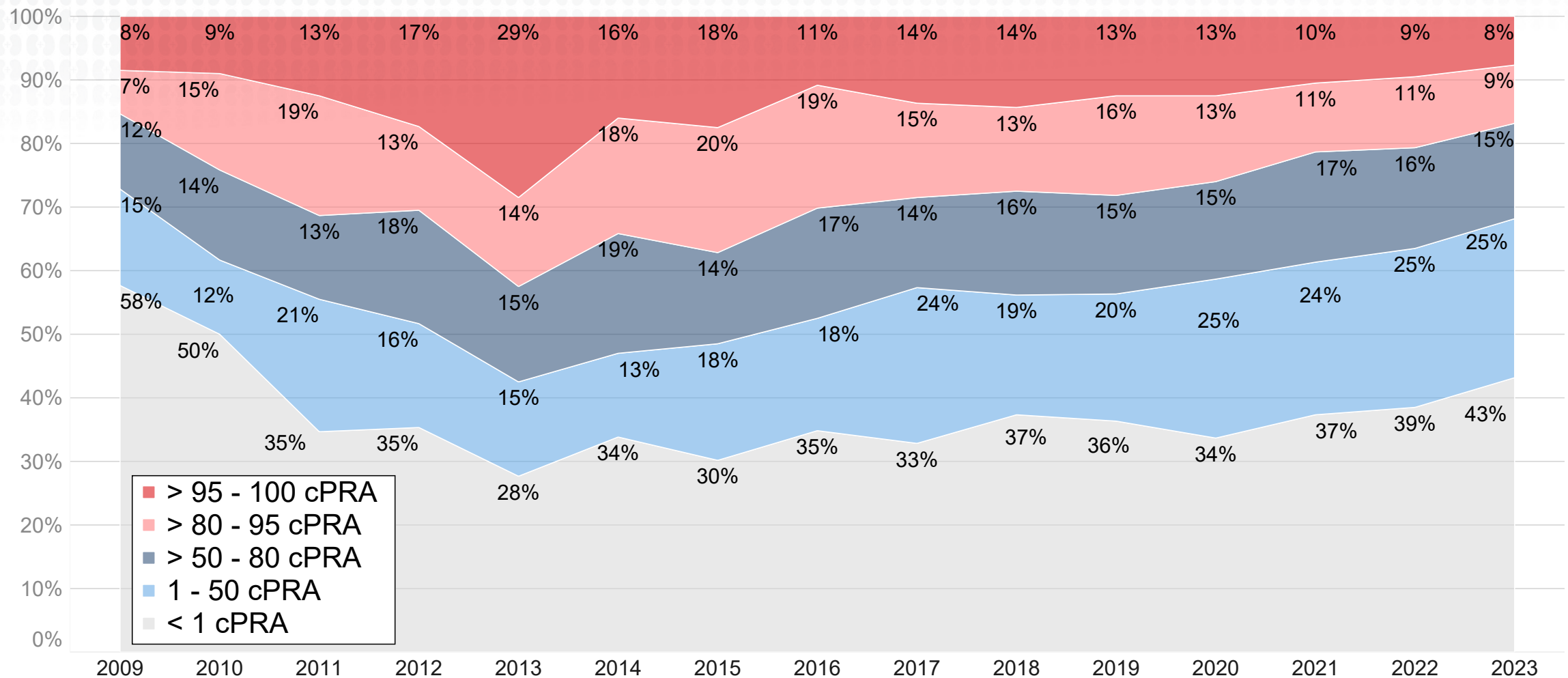
Voucher Patients

#	Patient ID	Patient ABO	cPRA	Months Wait
1	13055	O	100.00	33
2	16866	O	100.00	12
3	13065	AB	100.00	12
4	11729	A	100.00	12
5	10069	A	99.99	49
6	12712	B	99.97	28
7	14955	B	99.93	13
8	16538	O	99.92	12

As of 9/30/2023. Includes all patients on dialysis & exportable in the NKR pool with a cPRA >99.00.



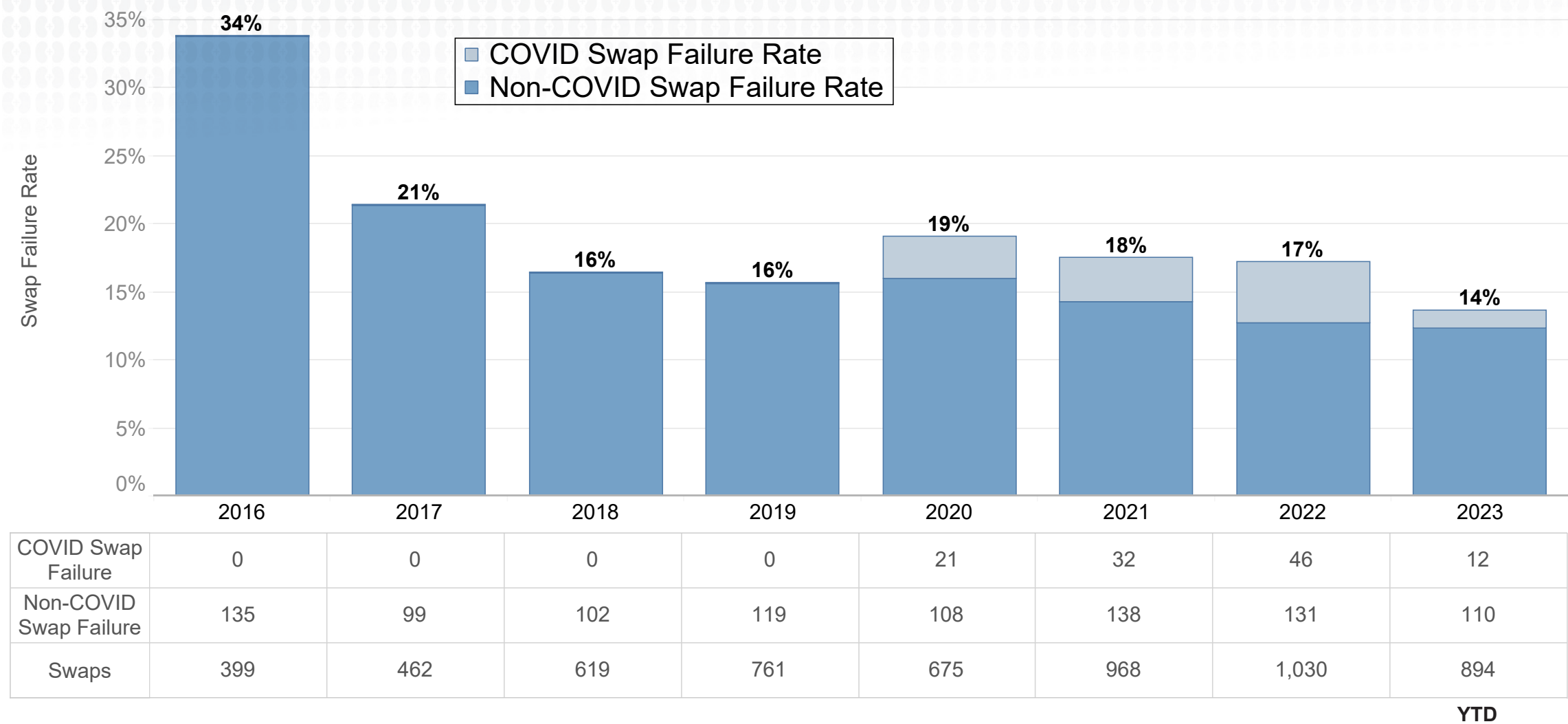
Transplanted Recipients by cPRA



As of 9/30/2023.
Excludes all non-KPD and waitlist patient transplants.



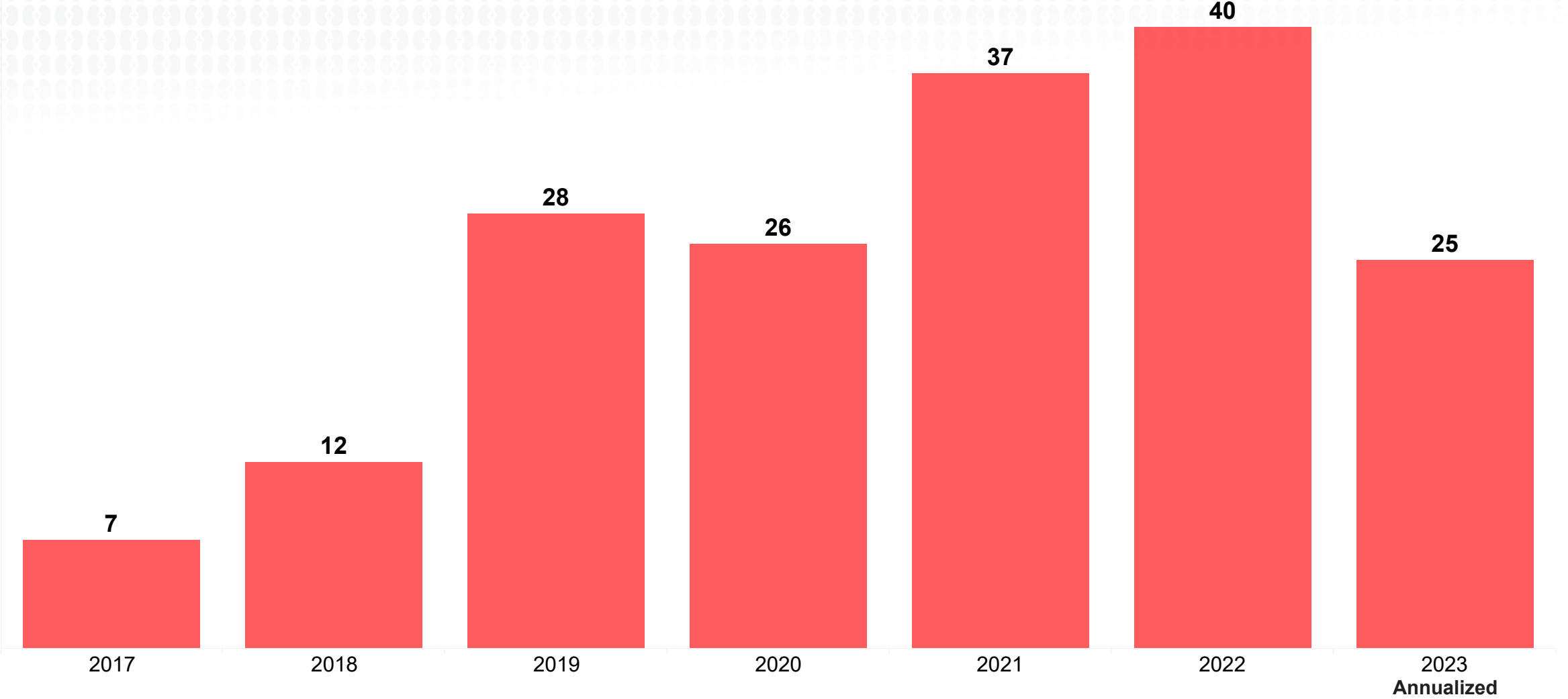
Swap Failure Rates



As of 9/30/2023.



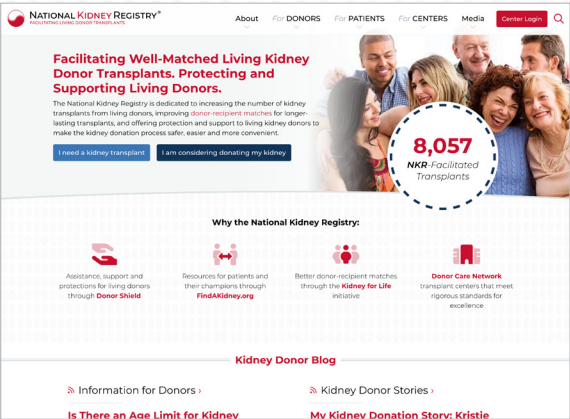
Swaps Saved by Swap Saver Voucher Donors



As of 9/30/2023.



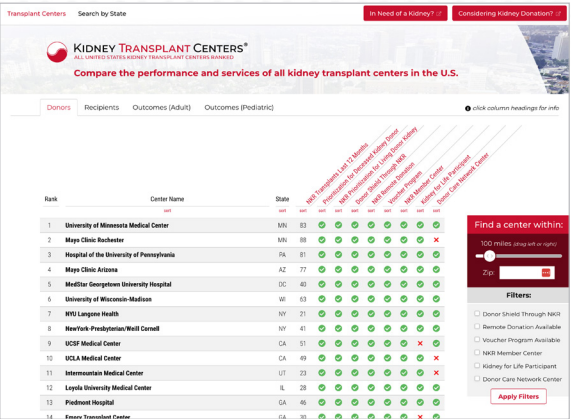
Resources



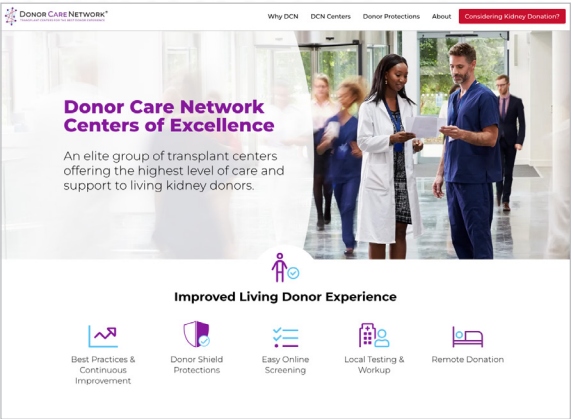
kidneyregistry.org



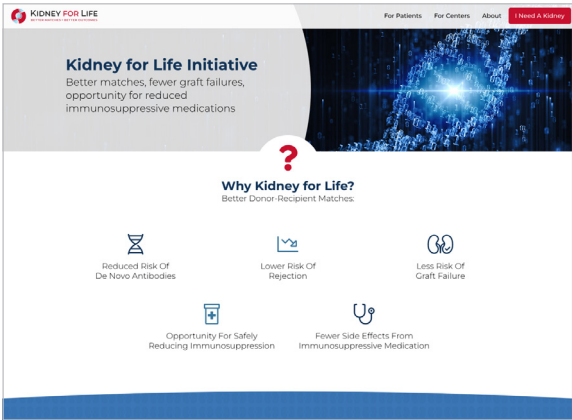
donor-shield.org



kidneytransplantcenters.org



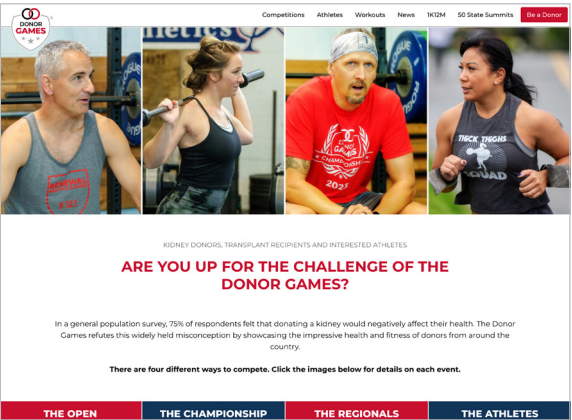
donorcarenet.org



kidneyforlife.org



findakidney.org



livingdonorgames.org

