



**NATIONAL KIDNEY REGISTRY®**  
FACILITATING LIVING DONOR TRANSPLANTS

# Quarterly Report

## Q1 2023



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# Message from the Founder & CEO



We continue to experience strong growth, with NKR-facilitated transplants now accounting for 22% of all living donor kidney transplants in the United States. Our annualized 2023 donor registrations are on track to exceed last year by nearly 20,000. NKR donor referrals are on pace to double this year to over 4,000. The NKR donor referral conversion rate is down slightly due to the significant increase in referrals and the related 6- to 18-month lag time from referral to donation.

The trend toward voucher donation is continuing, with 62% of donor-recipient pairs now choosing to decouple and enter the Standard Voucher Program, while 94% of Good Samaritan donors enter the Family Voucher Program. This conversion to voucher donation is primarily driven by the elimination of disincentives to living donation provided by the Voucher Program and all of the donor support and protections included in voucher participation (e.g., vouchers for family members, Donor Shield, prioritization for a living donor kidney, etc.)

A record 35% of voucher and paired recipient transplants were low eplet mismatches in the first quarter, up from 19% in all of 2022. In the last 12 months, 85% of compatible pairs who received a low eplet mismatch transplant were transplanted within four months. Over 50 compatible pairs entered the NKR in the past year and achieved a low eplet mismatched transplant. These compatible pairs directly facilitate transplants for other incompatible pairs across the network.

The NKR's Donor Connect service continues to have a significant impact on conversion rates. The involvement of a living donor mentor nearly triples the conversion rate for donor candidates by eliminating one of the most significant disincentives to living donation: lack of information and donor support. We are providing the Donor Connect service at no cost to all centers utilizing our DASH automated donor intake platform. We currently have 41 Member Centers utilizing the Donor Connect service.

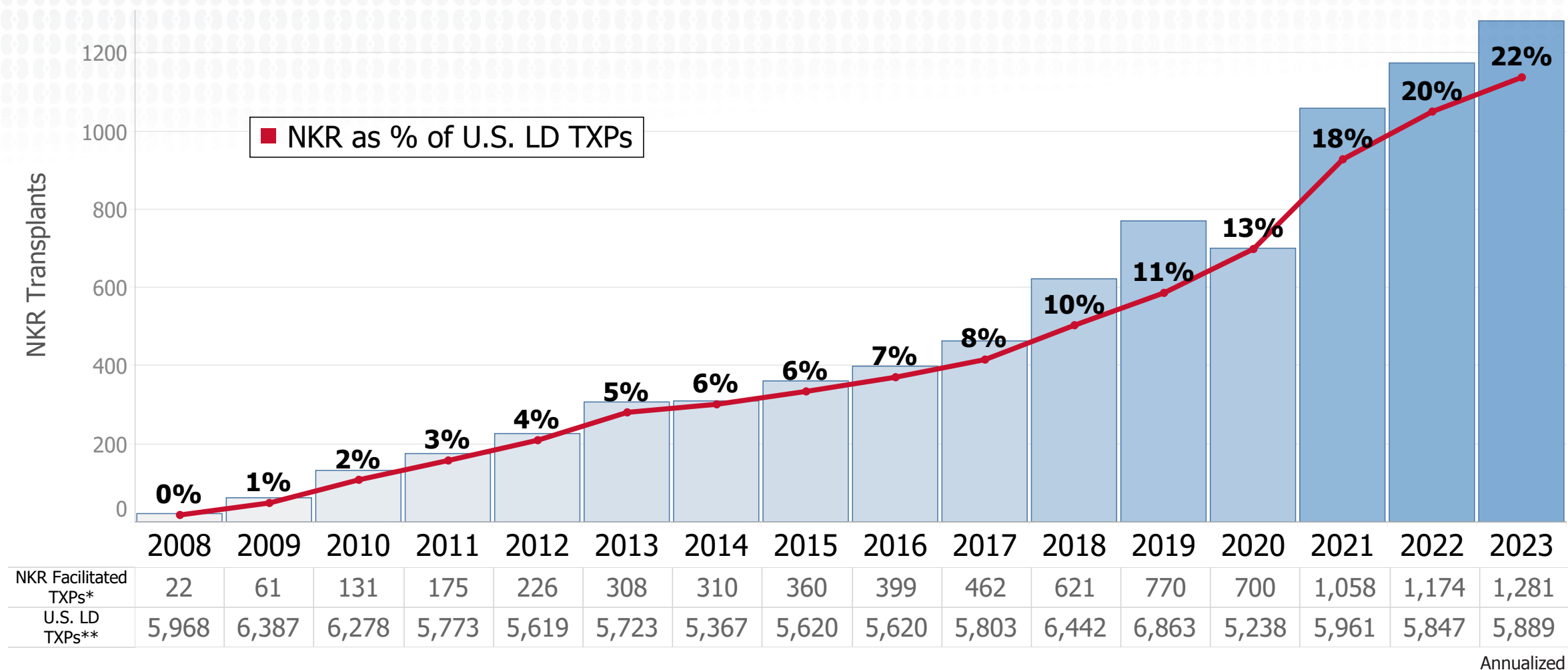
Sincerely,



**Gareth Hil**  
Founder & CEO  
National Kidney Registry  
Living Kidney Donor



# NKR Facilitated Transplant Growth



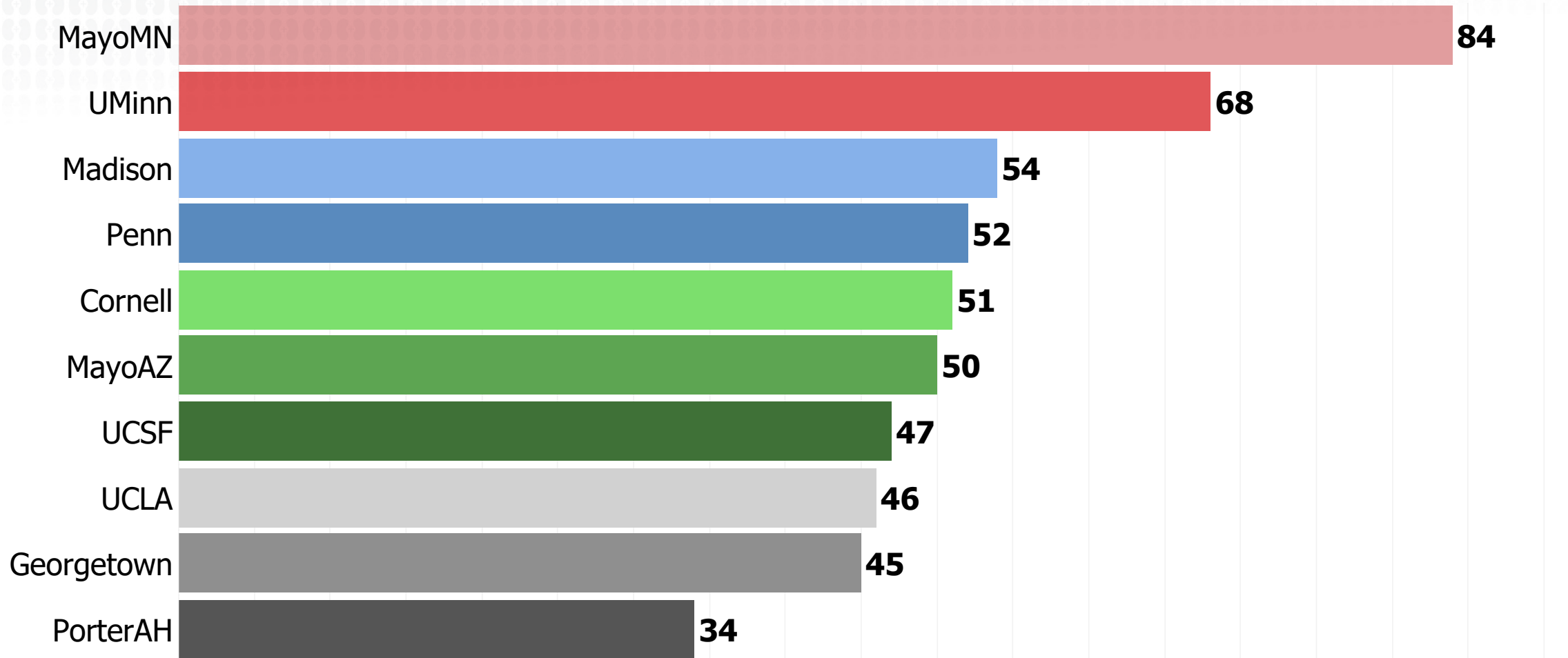
\*NKR facilitated transplants (TXPs) include voucher, paired, remote directs, Kidney for Life remote directs, microsite internal direct, and waitlist patient transplants. Total transplants subject to change due to delayed reporting of microsite transplants. NKR data captured 4/28/2023.  
\*\*<https://optn.transplant.hrsa.gov/data/> U.S. Living Donor (LD) Transplants Performed: 1/1/2008–4/7/2023. Annualized 2023 OPTN data from 1/1/2023-2/28/2023.





# Top 10 Centers

NKR Facilitated Transplants – Last 12 months

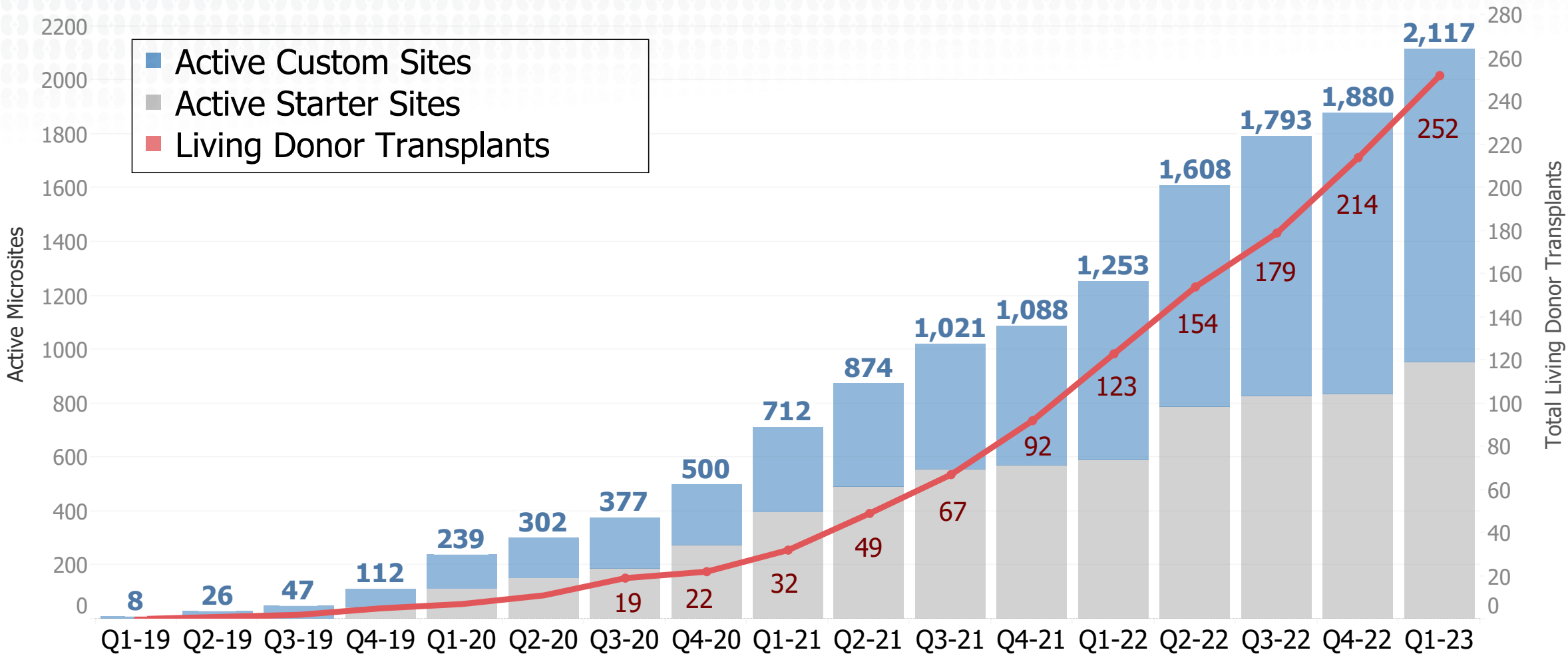


*NKR facilitated transplants include voucher, paired, remote directs, Kidney for Life remote directs, microsite direct transplants, and waitlist patient transplants.  
As of 5/1/2023.*





# Microsite Growth

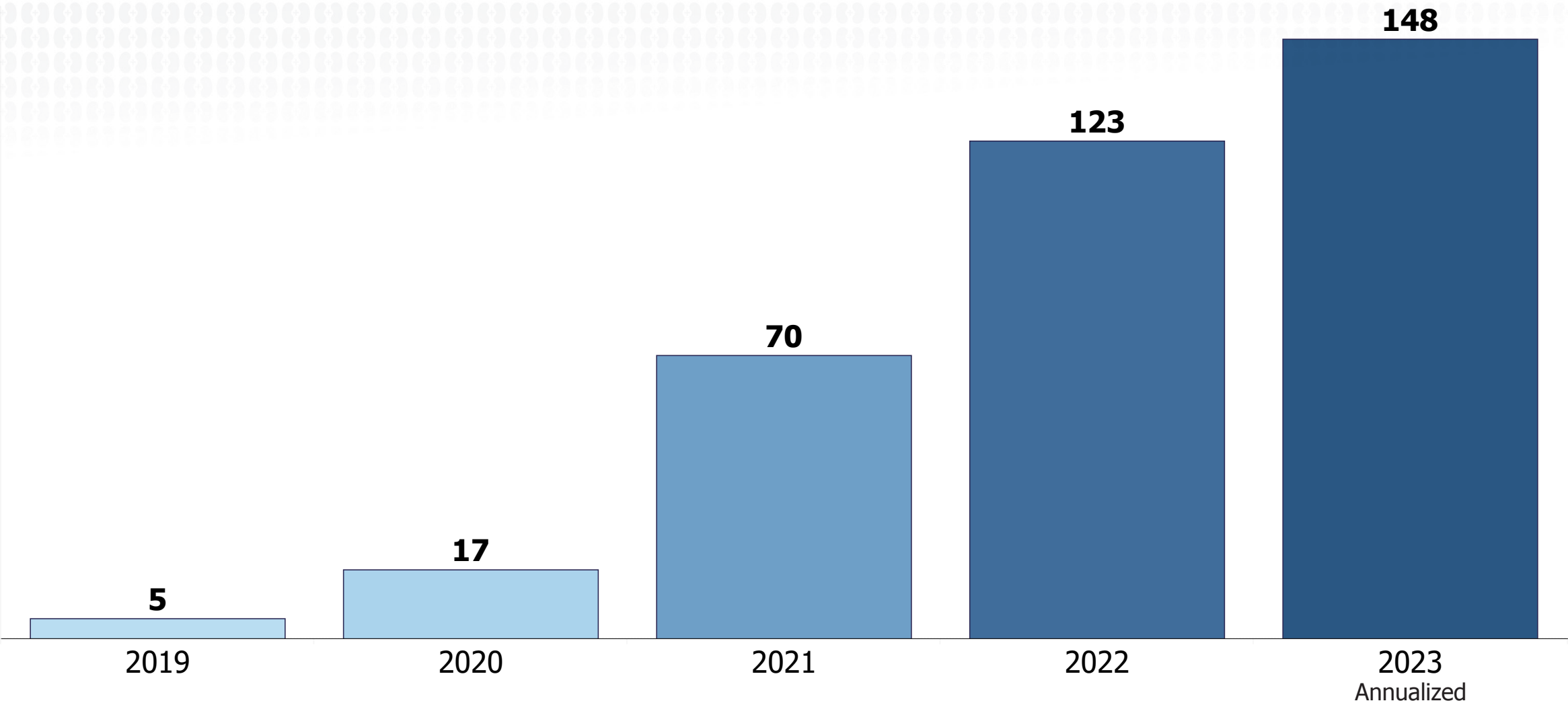


As of 4/3/2023.  
To learn more about the microsite program [click here](#).





# Microsite Patients Receiving Living Donor Transplants



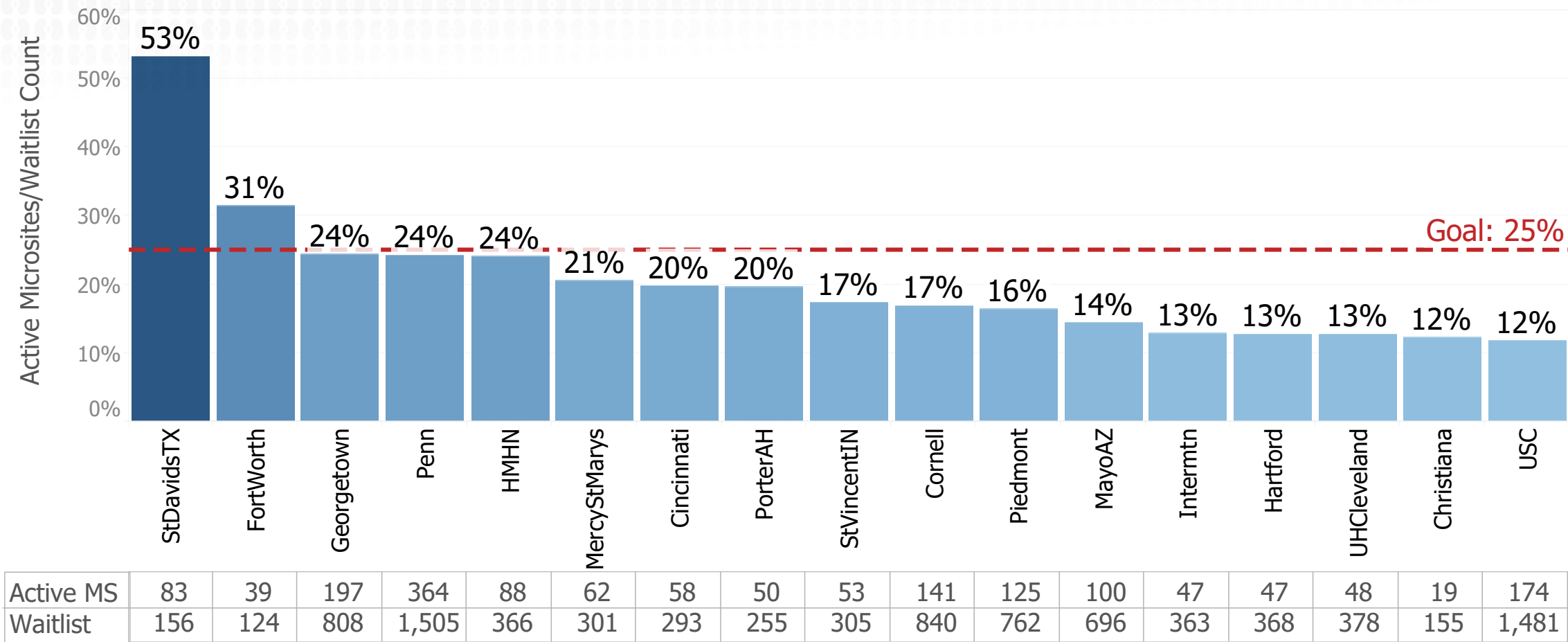
As of 4/28/2023. 2023 under-reported due to delay in TXP Centers reporting.





# Microsite Enrollment Success

Percentage of Waitlist Patients Who Have a Microsite



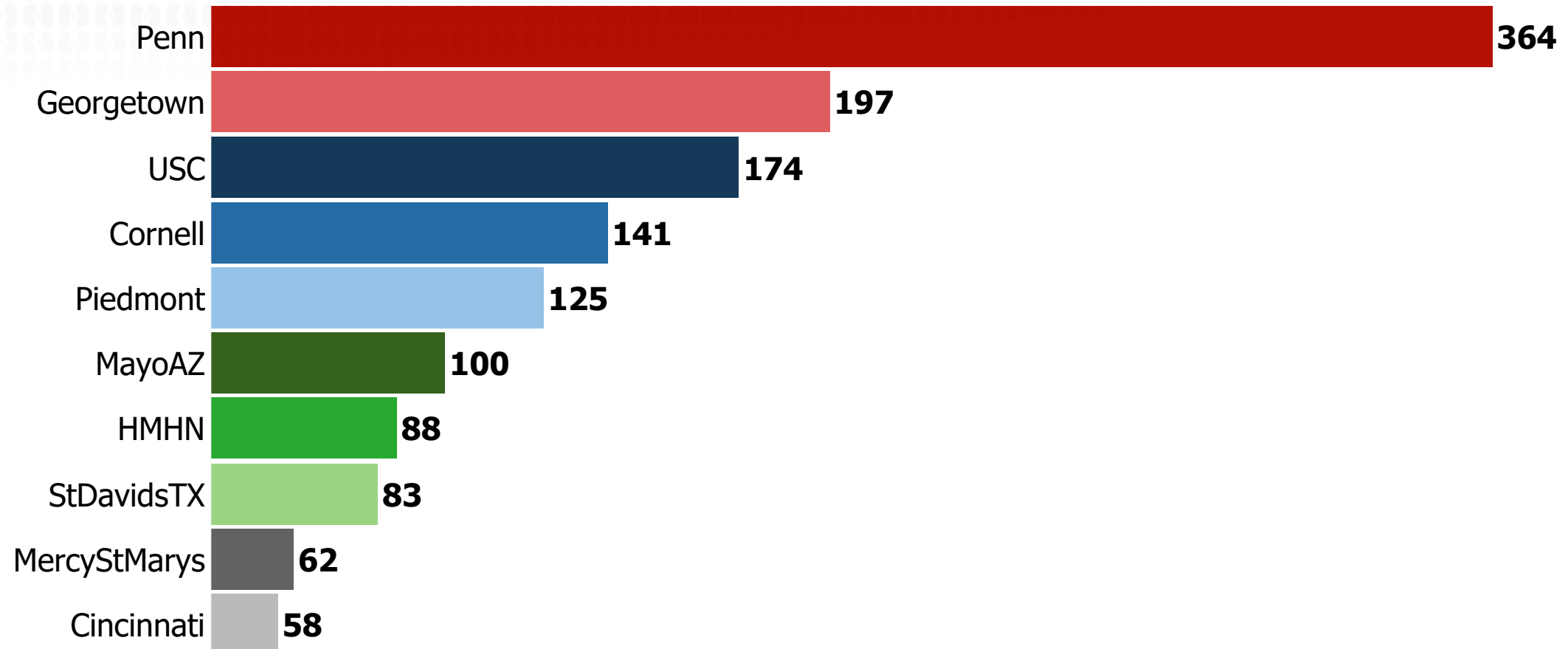
Data for 4/1/2023. **Formula:** Active Microsites / Total Waitlist. Minimum 10%





# Top 10 Centers

## Most Active Microsites



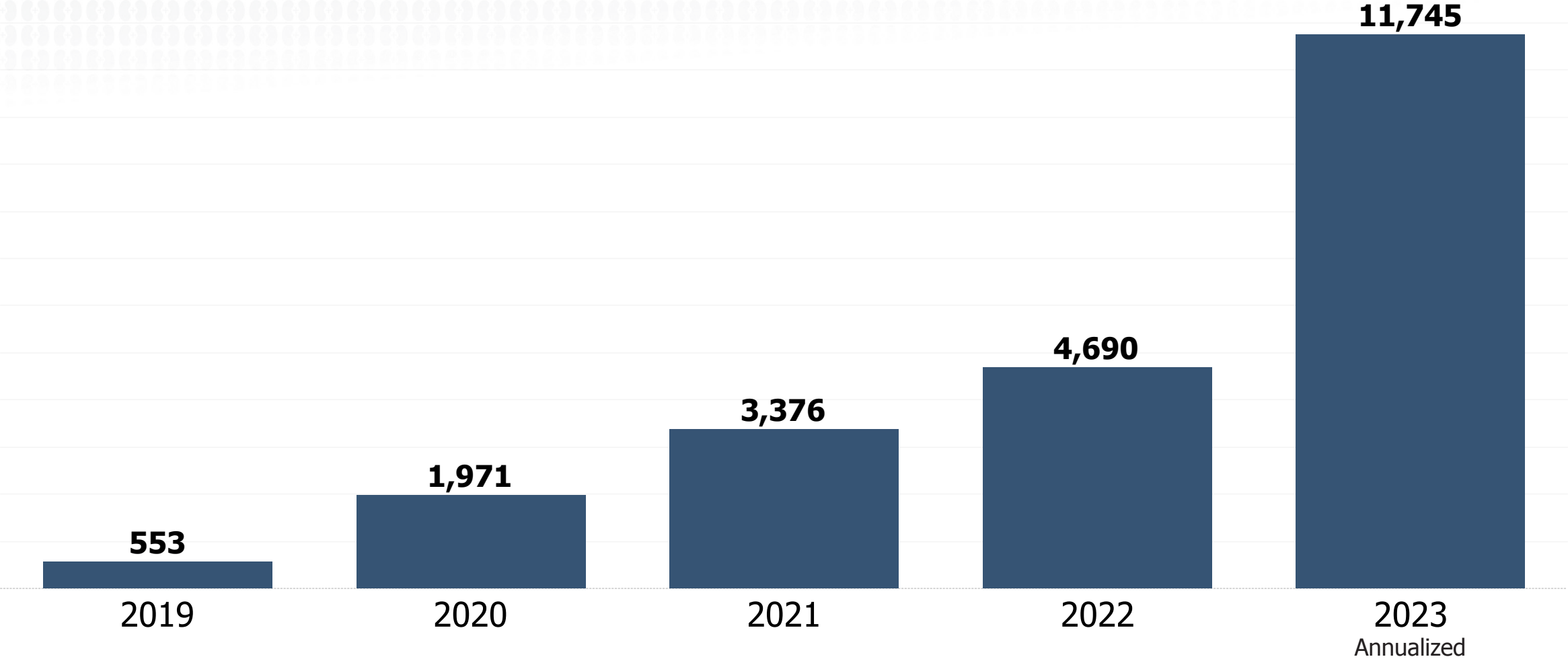
*Kidney only. As of 5/1/2023.*





# Microsite Donor Registrations

Microsite Coaches are Helping Increase Donor Registrations

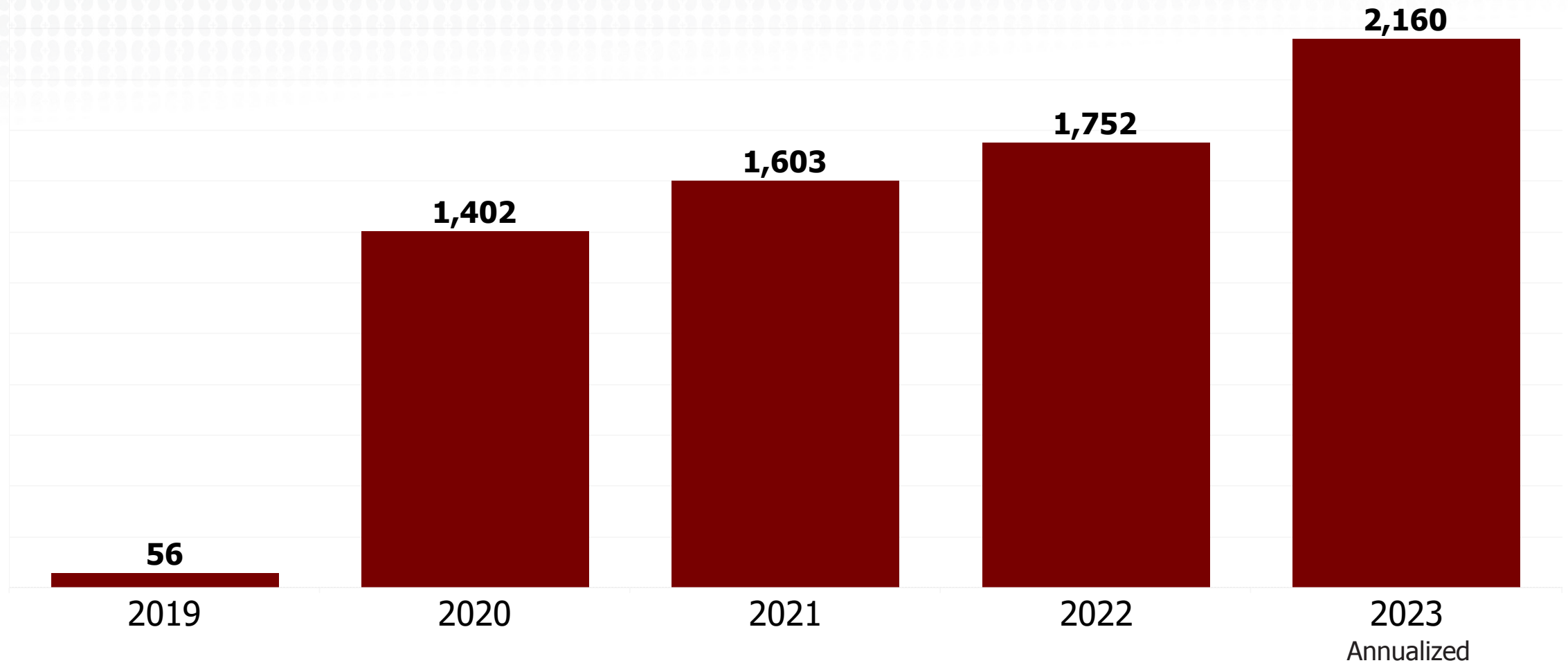


*Kidney only. As of 4/28/2023.  
To learn more about the microsite program [click here](#).*





# Microsite Patient Referrals



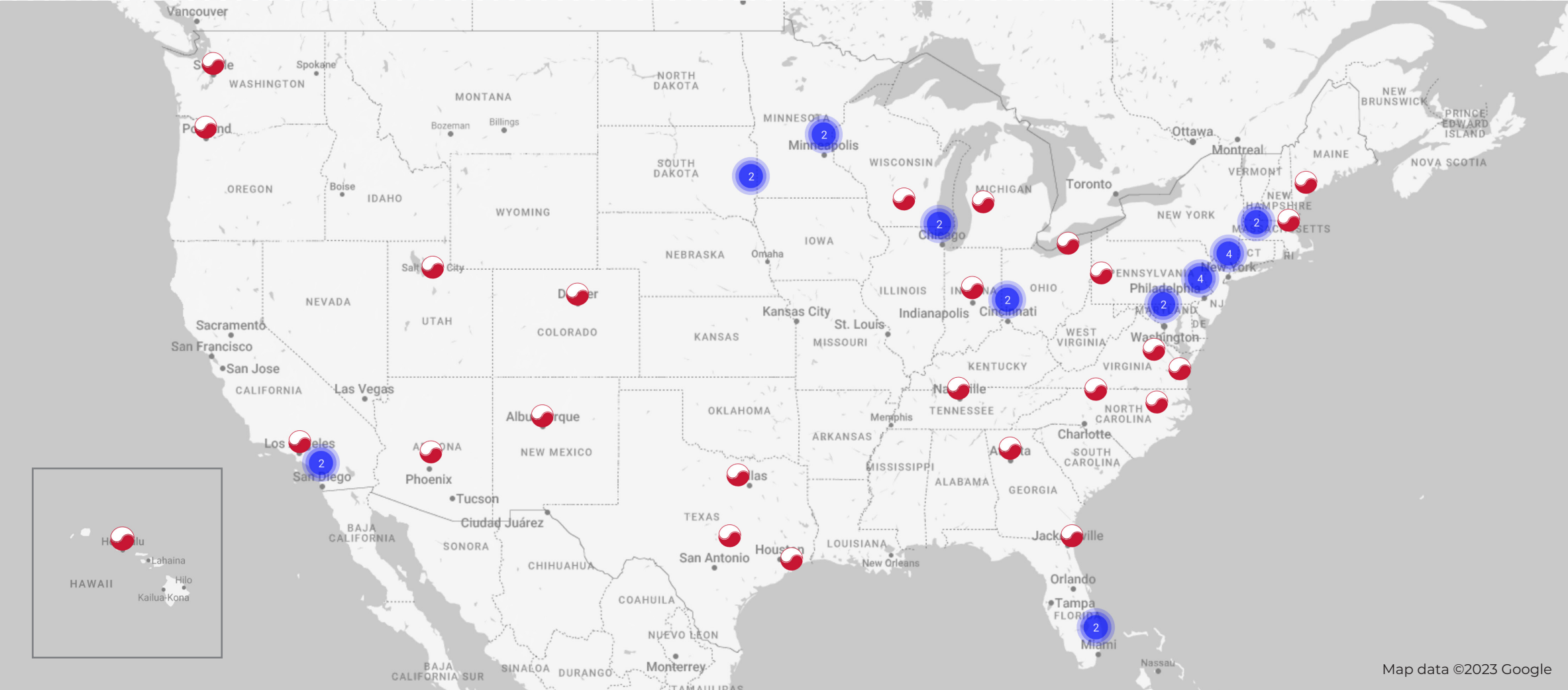
As of 5/1/2023

To learn more about the microsite program [click here](#).





# Microsite Centers



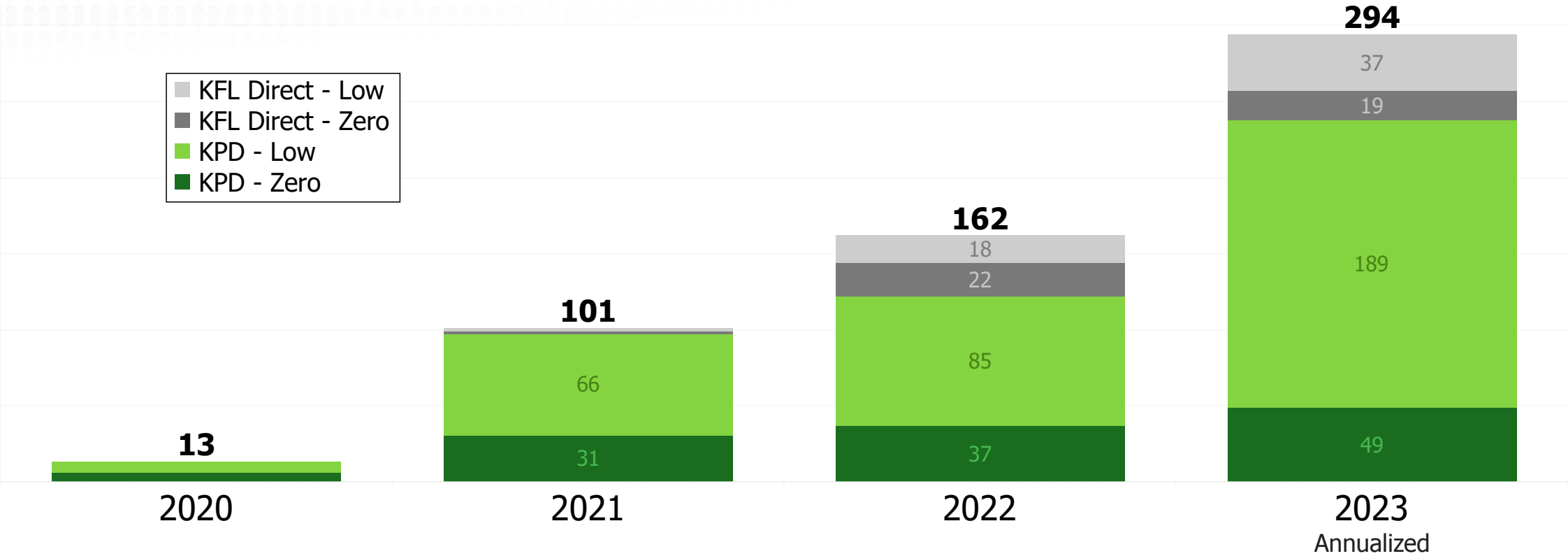
As of 5/4/2023  
To see the latest microsite participating centers [click here](#).





# Kidney for Life Low Eplet Mismatch Transplants

Compatible and Incompatible Pairs



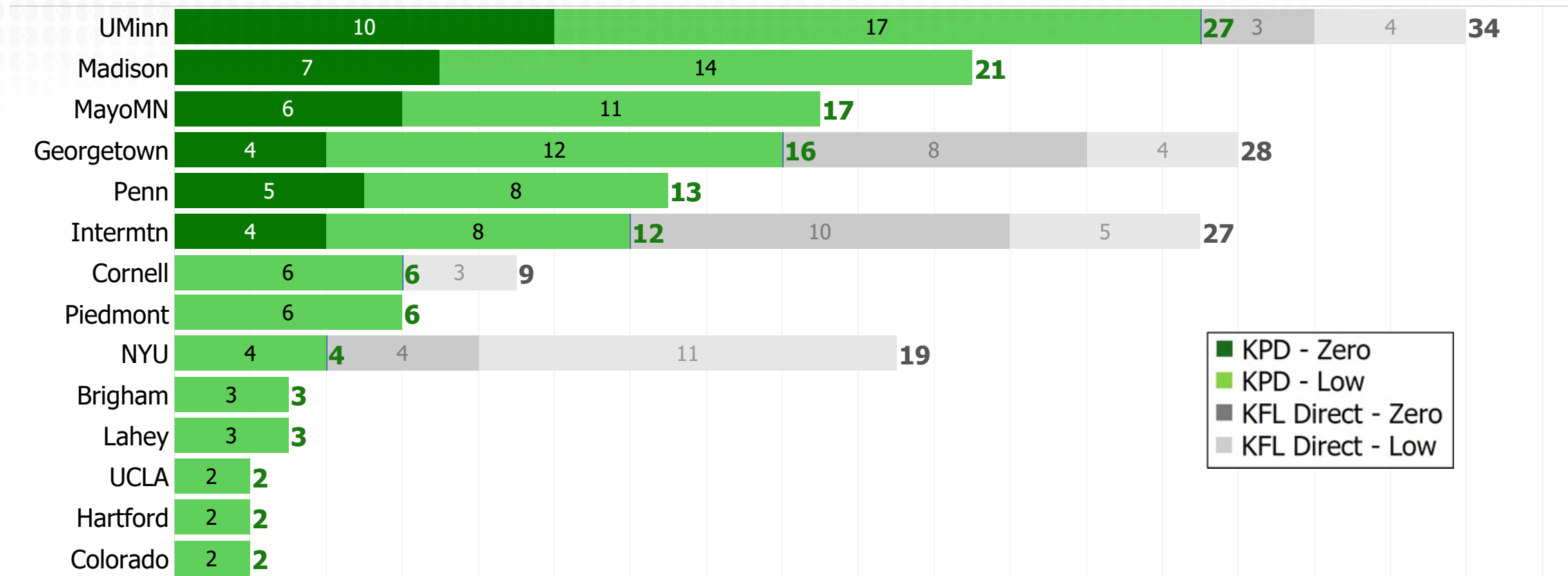
Excludes waitlist and remote direct. As of 4/28/2023.  
Eplet mismatch categories are based on the definition provided by Wiebe C, Kosmoliaptsis V, Pochinco D, et al. HLA-DR/DQ molecular mismatch: a prognostic biomarker for primary alloimmunity. Am J Transplant. 2019;19:1708-1719. <https://doi.org/10.1111/ajt.15177>  
To learn more about the Kidney for Life program [click here](#).





# Kidney for Life Low Eplet Mismatch Transplants

Compatible and Incompatible Pairs 4/1/2022 – 3/31/2023



Excludes waitlist and remote direct. Minimum 2 transplants. As of 4/28/2023.

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>

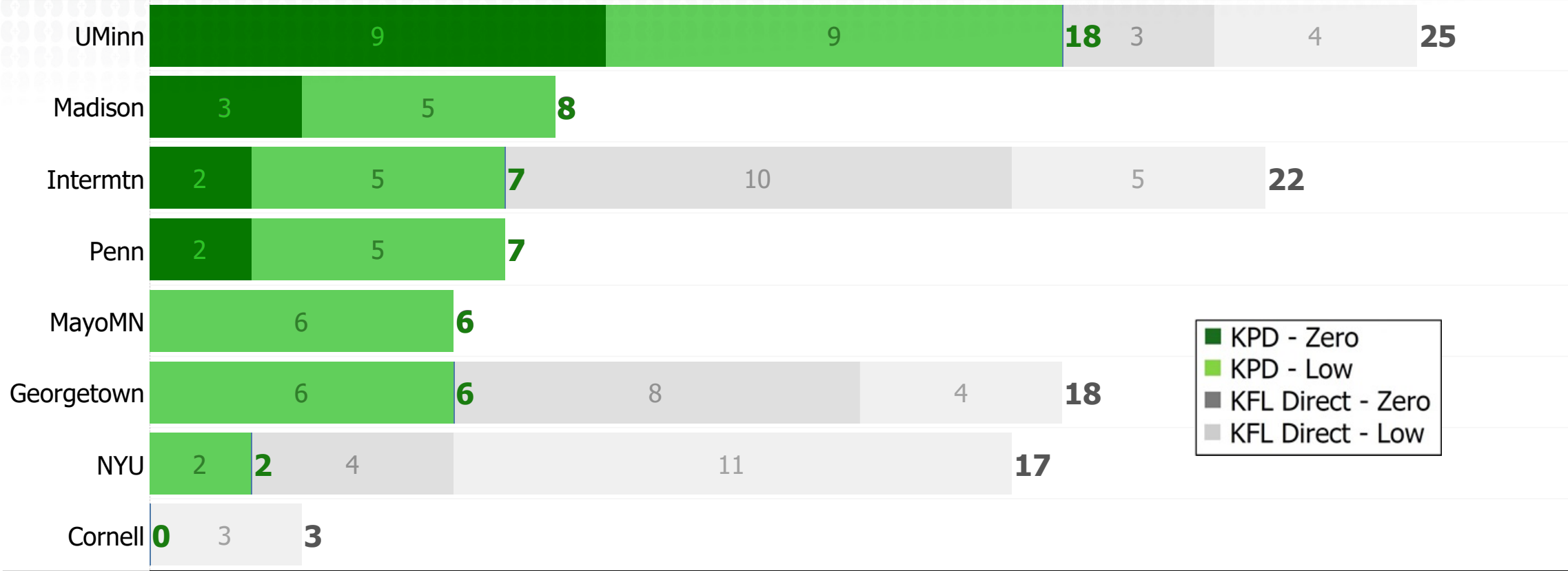
To learn more about the Kidney for Life program [click here](#).





# Kidney for Life Low Eplet Mismatch Transplants

Compatible Pairs 4/1/2022 – 3/31/2023

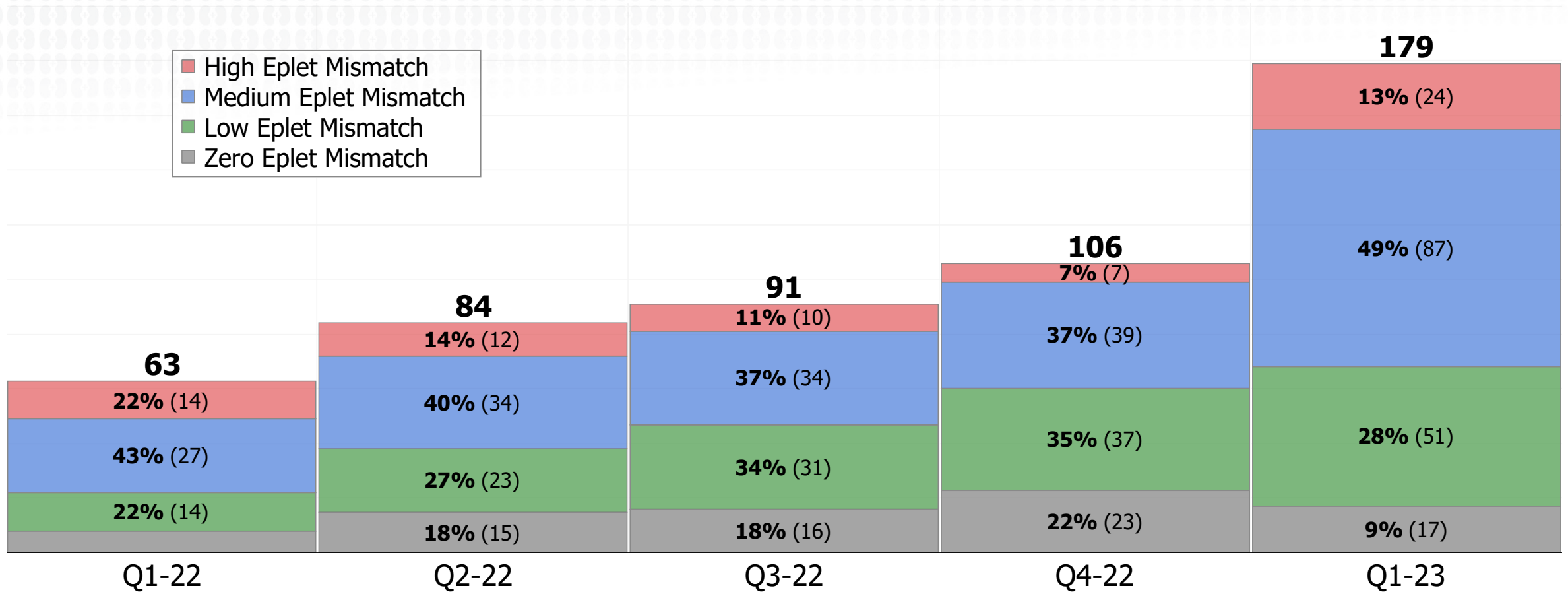


Excludes waitlist and remote direct. Minimum 2 transplants. As of 4/28/2023.  
Eplet mismatch categories are based on the definition provided by Wiebe C, Kosmoliaptsis V, Pochinco D, et al. HLA-DR/DQ molecular mismatch: a prognostic biomarker for primary alloimmunity. Am J Transplant. 2019;19:1708–1719. <https://doi.org/10.1111/ajt.15177>  
To learn more about the Kidney for Life program [click here](#).





# Total Eplet Mismatch Transplants by Type



As of 4/28/2023

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>

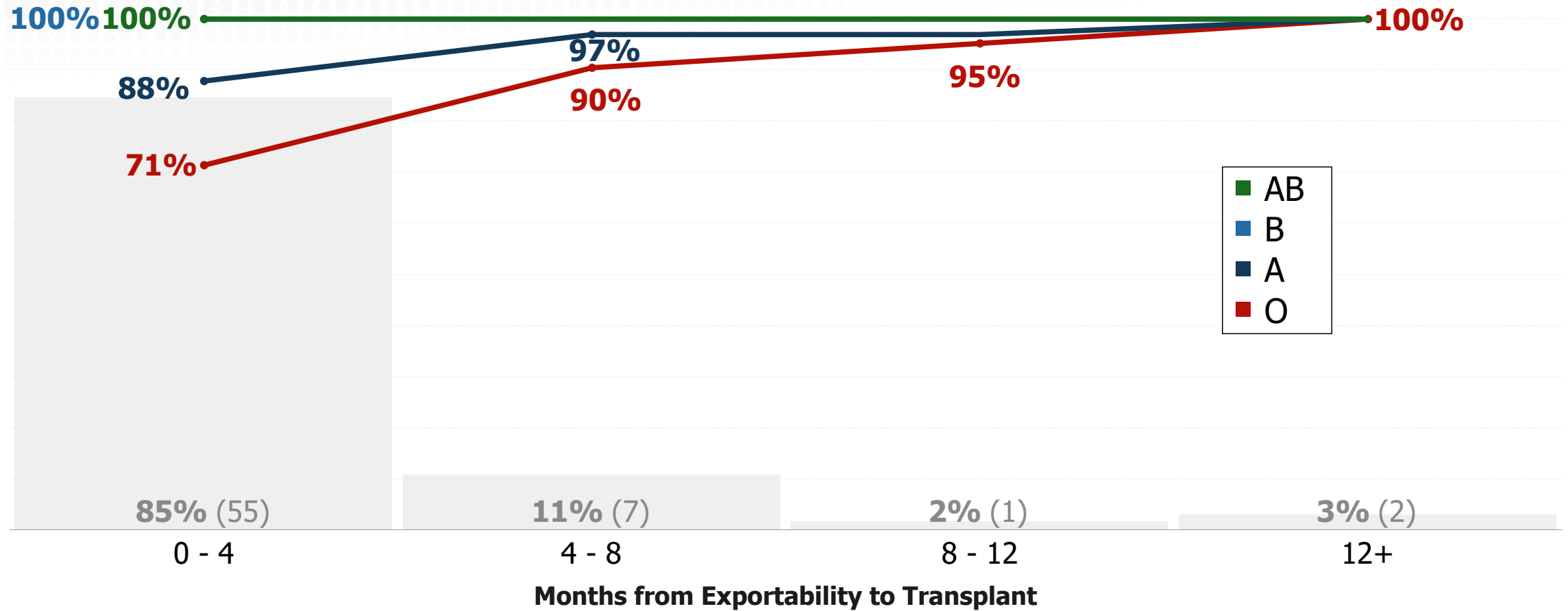
To learn more about the Kidney for Life program [click here](#).





# Actual Wait Times to Transplant

Compatible Pairs who Received a Low Eplet Mismatch Transplant

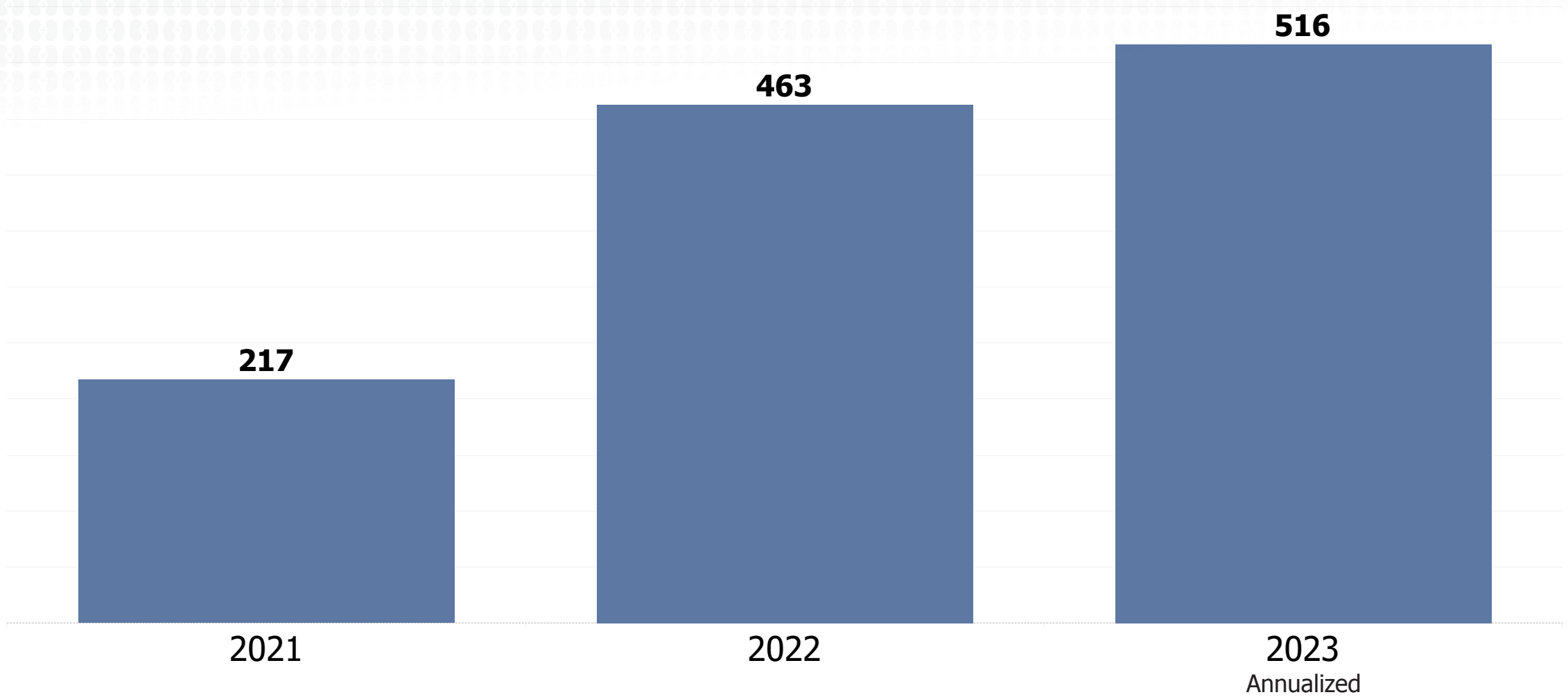


Data for 4/1/2022 – 3/31/2023 as of 4/28/2023. cPRA ≤ 99





# Kidney for Life Patient Referrals



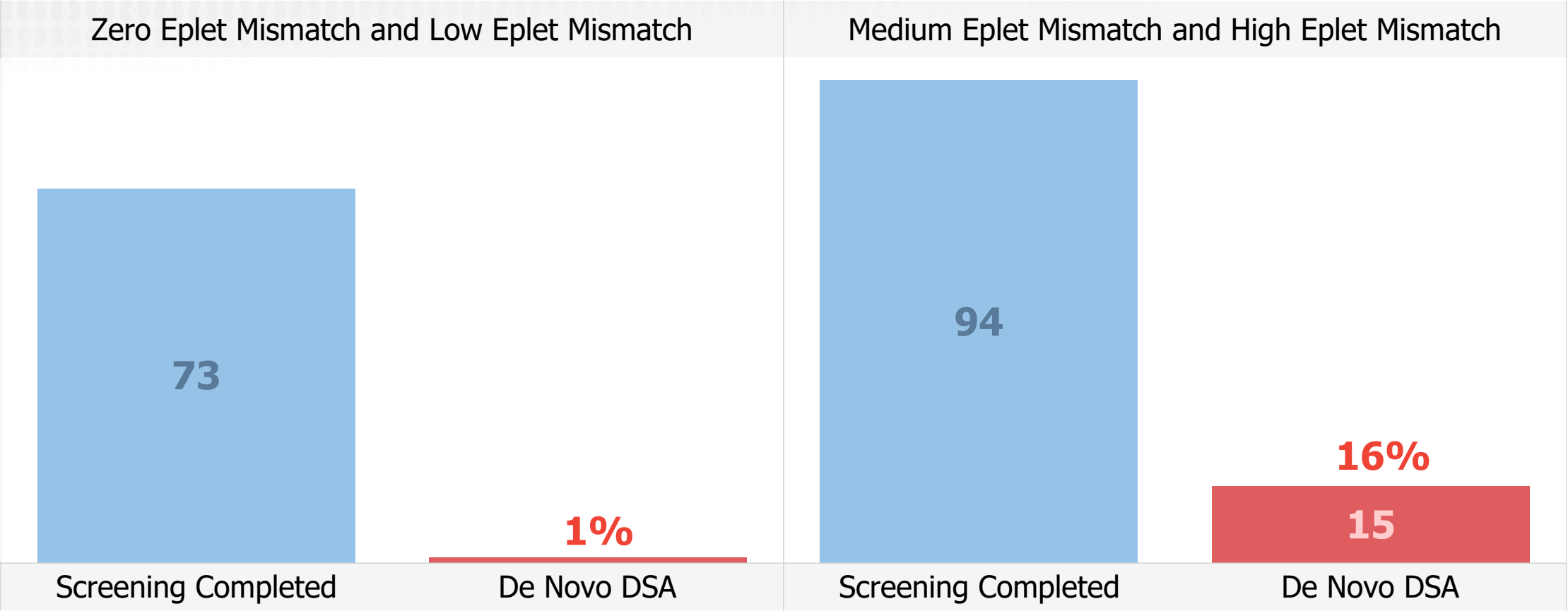
As of 5/1/2023





# Kidney for Life Results

## One Year Antibody Screening



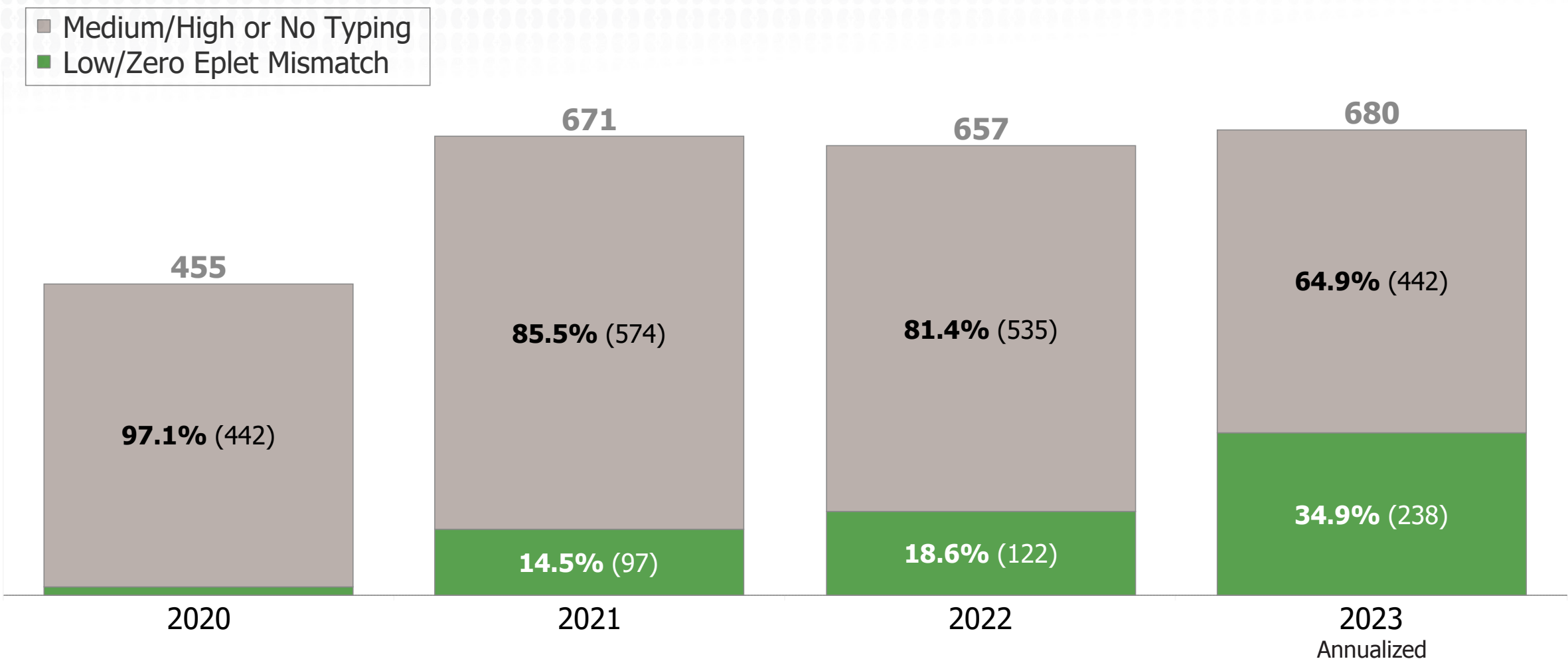
*De Novo DSA is defined by MFI > 1000 but may not be clinically significant.  
Data for last 12 months as of 4/28/2023.*





# Low Eplet Mismatch Transplants

Percentage of Voucher & Paired Recipients Receiving a Low Eplet Mismatch Transplant

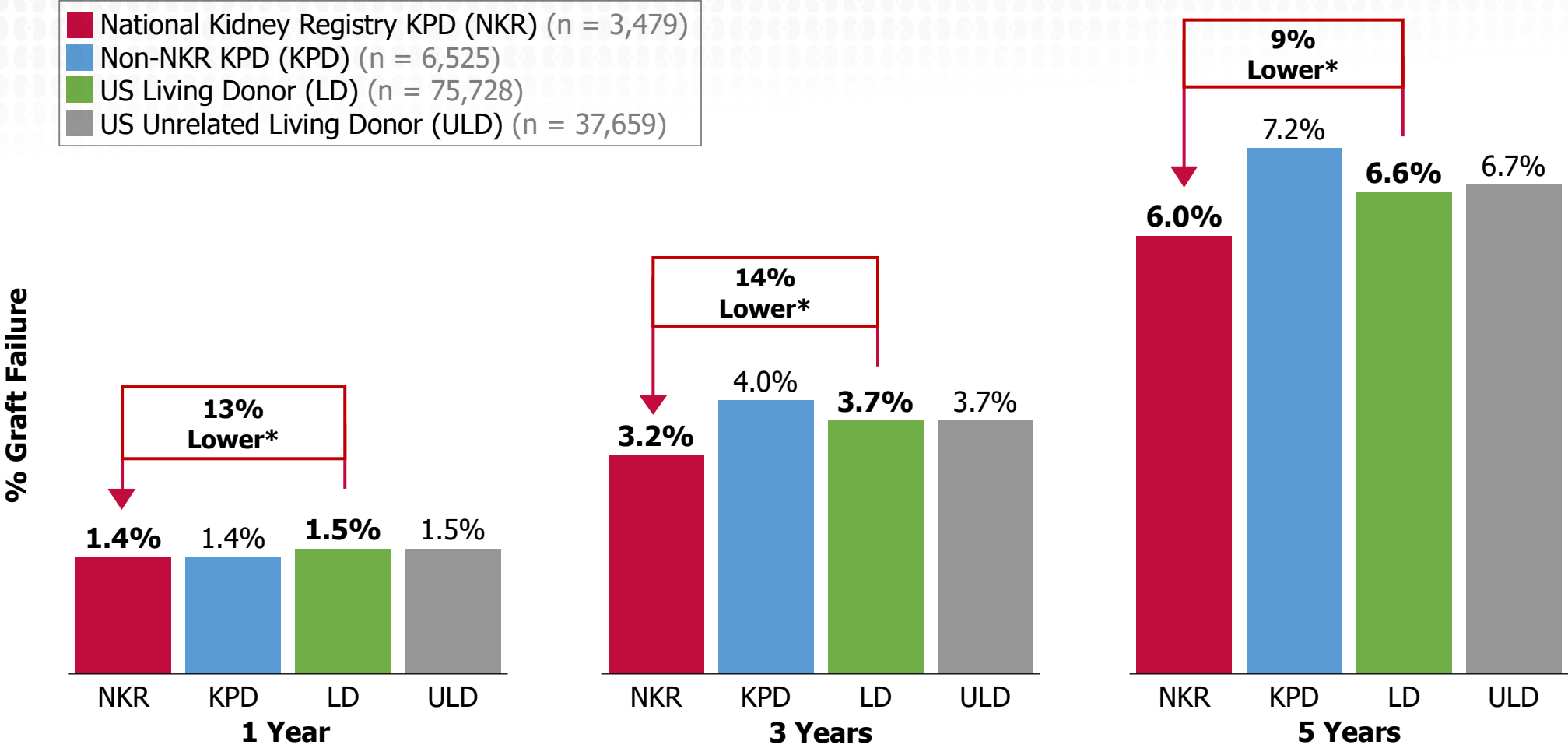


Excludes non-KPD and waitlist patient transplants. As of 4/28/2023





# Death Censored Graft Failure Comparisons

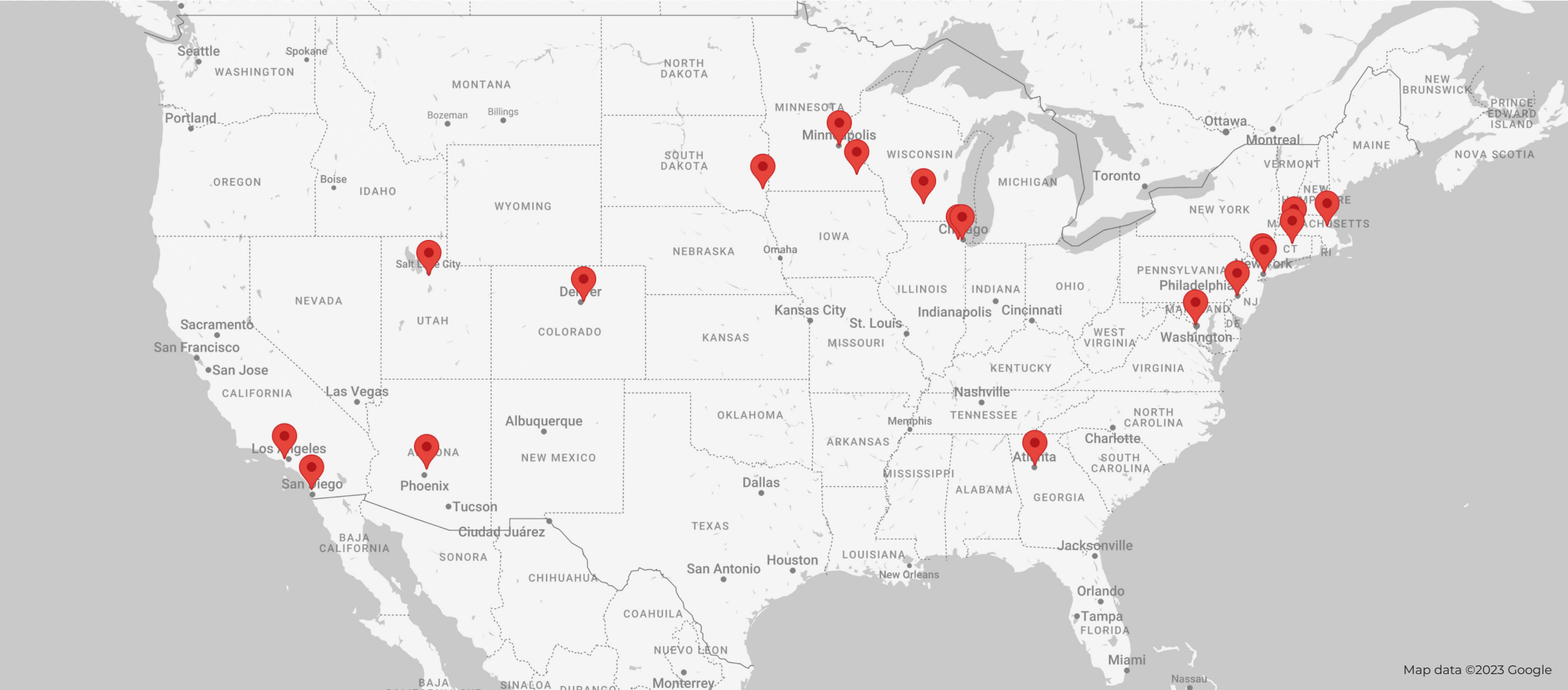


*\*Statistically significant decrease*  
Provided courtesy of NYU Grossman School of Medicine, Department of Surgery \*Not including waitlist patients;  
Kaplan-Meier GS Rates for transplants performed: 02/2008-12/2021 with follow-up through 3/31/2022  
<https://www.srtr.org/> SRTR data as of June 2022.





# Kidney for Life Centers



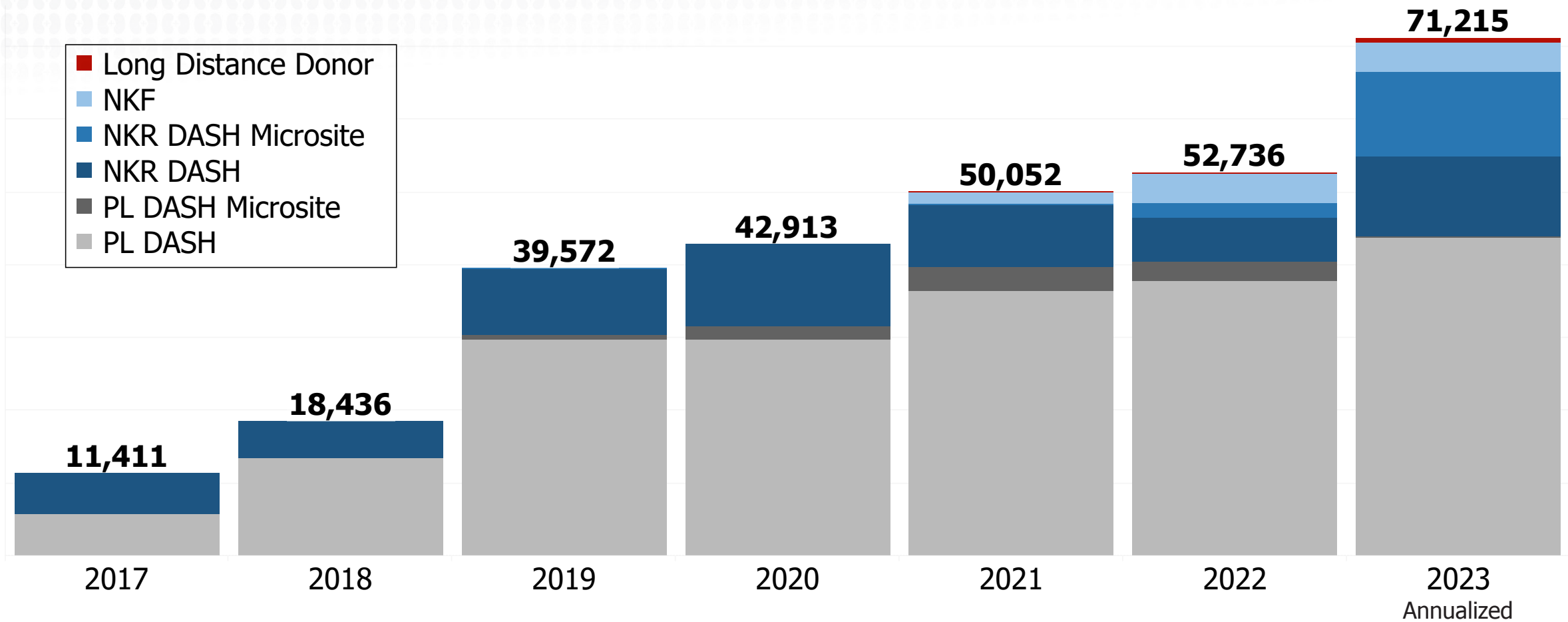
As of 5/4/2023  
To see the latest Kidney for Life participating centers [click here](#).





# Donor Registration Type

Kidney Registrations Across All DASH Intake Platforms



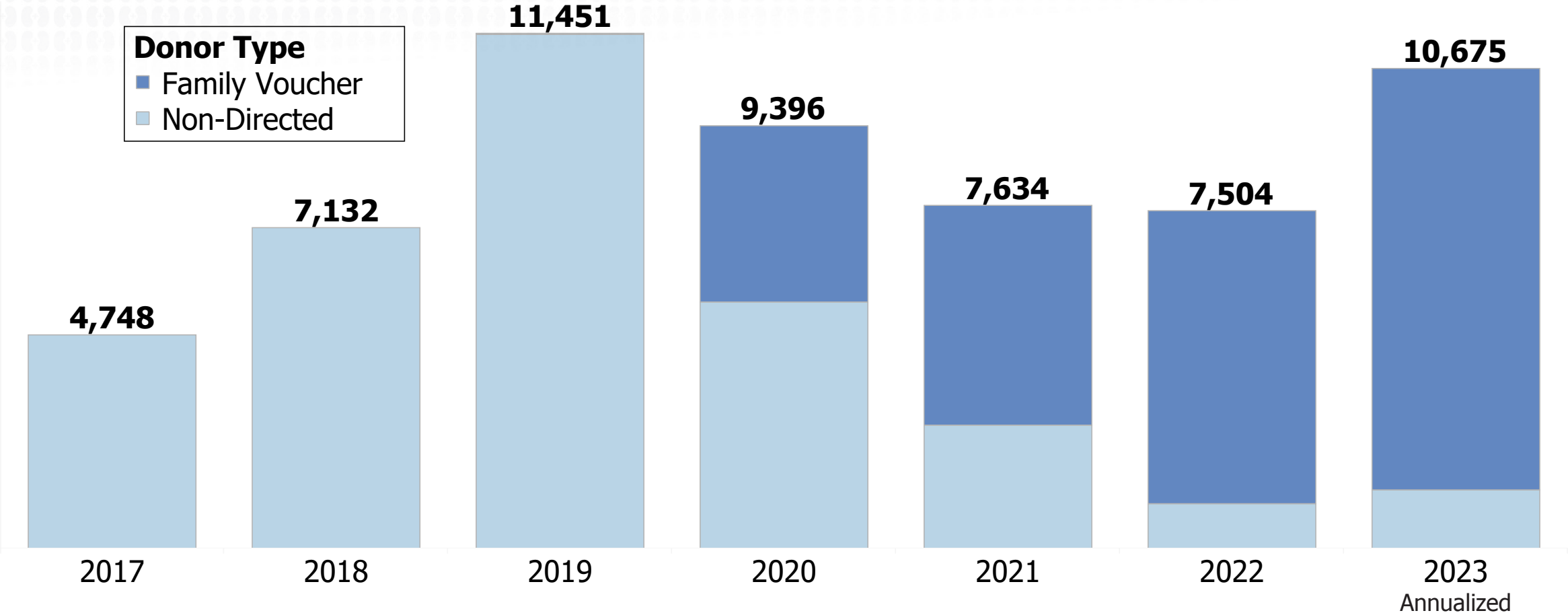
As of 4/28/2023  
To learn more about DASH, the Donor Automated Screening and History system [click here](#).





# Good Samaritan Donor Candidate Registrations

Kidney Donor Registrations Across All DASH Intake Platforms



As of 4/28/2023

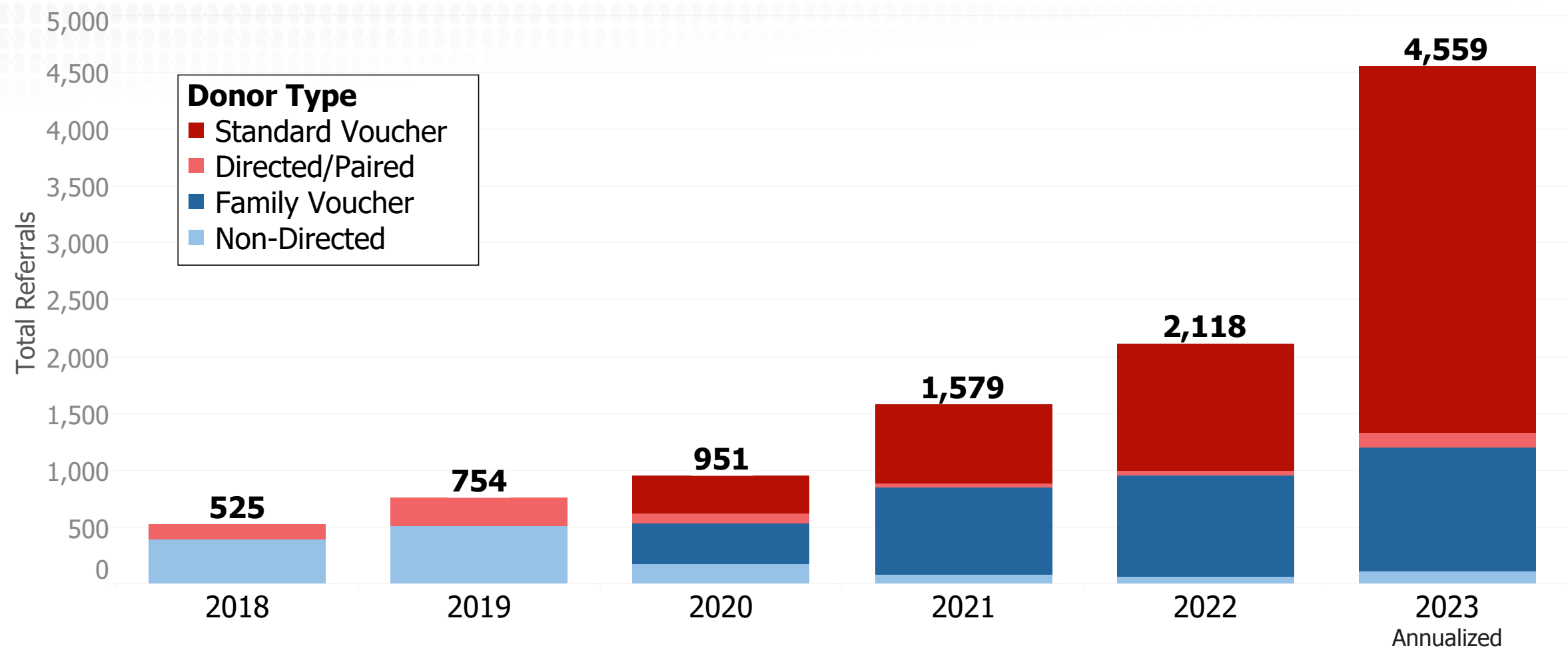
To learn more about DASH, the Donor Automated Screening and History system [click here](#).





# NKR Kidney Donor Referrals

Completed Online Screening, Medical History and Blood Test



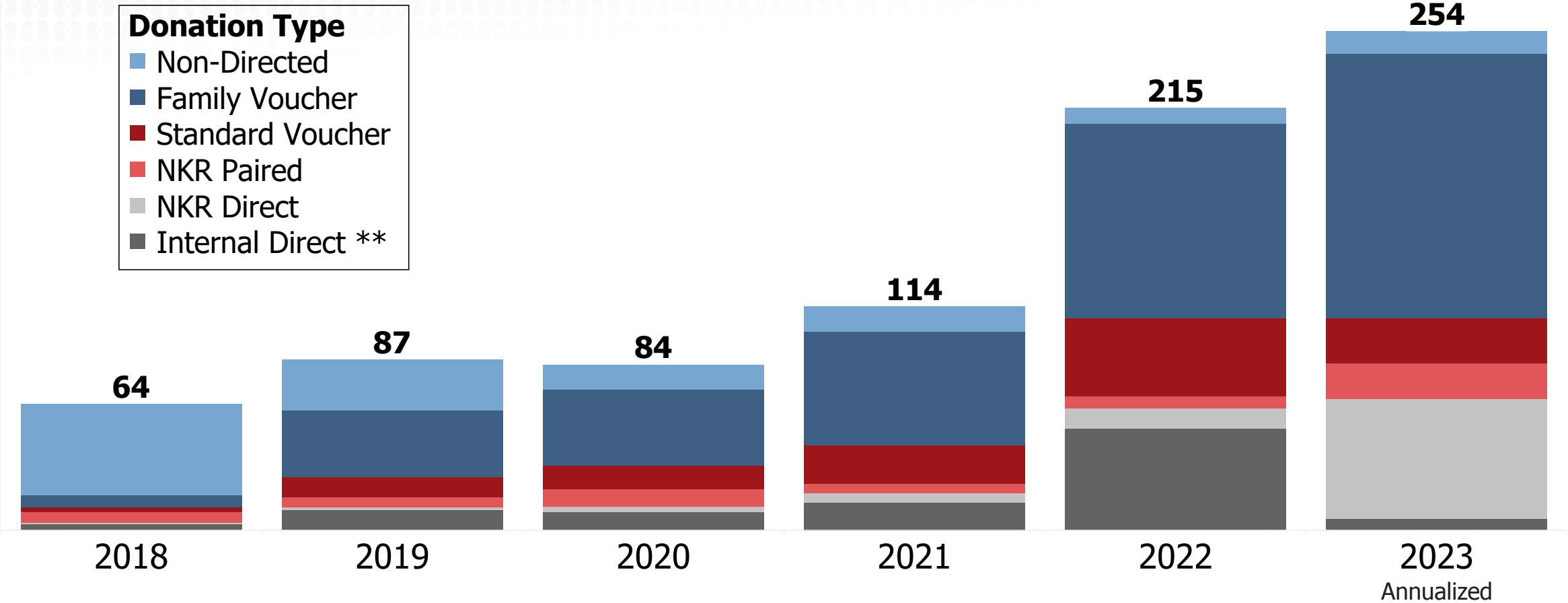
As of 4/28/2023  
Includes donor registrants from all NKR websites.





# Living Kidney Donations

Resulting from NKR Donor Referrals



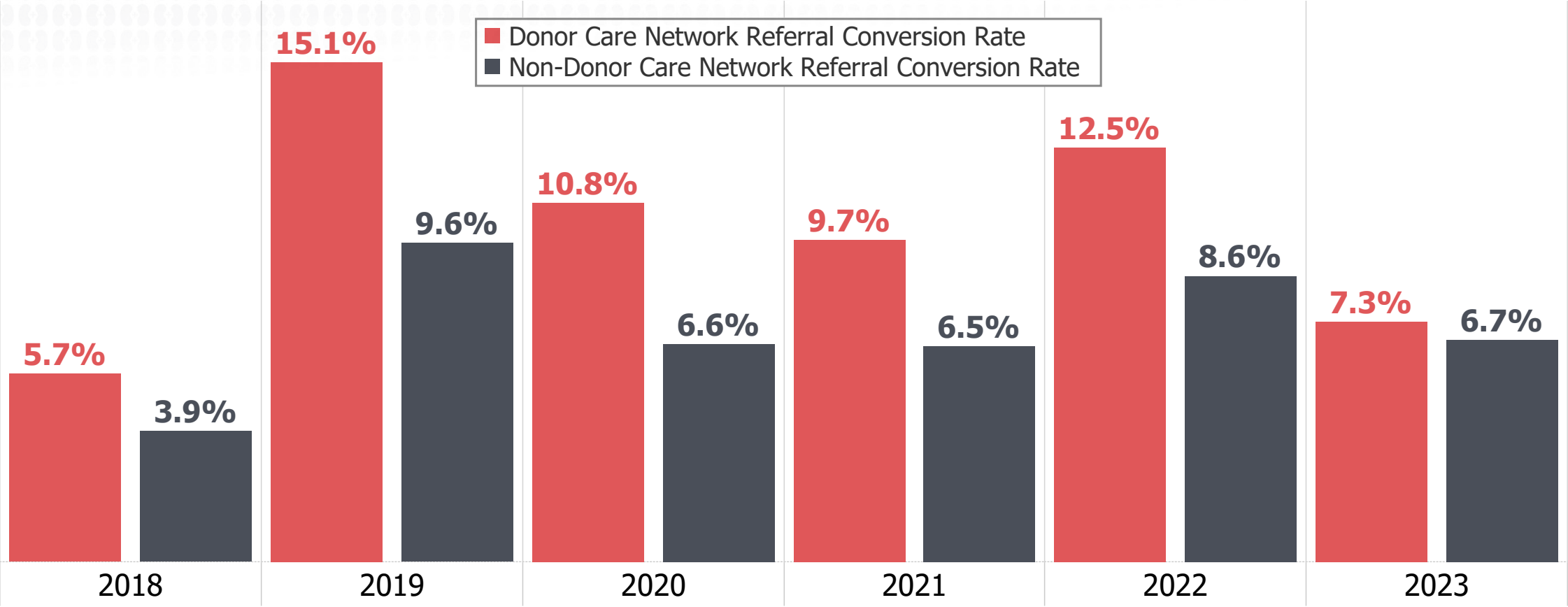
**\*\* Internal Direct = no NKR KPD record found. As of 4/28/2023**  
To avoid lag-effect, the chart counts donation date which does not reflect the date the donor registered.





# NKR Donor Conversion Rates

Donations Divided by Average Referrals



As of 4/28/2023

**Formula:** Donations / Average Referrals

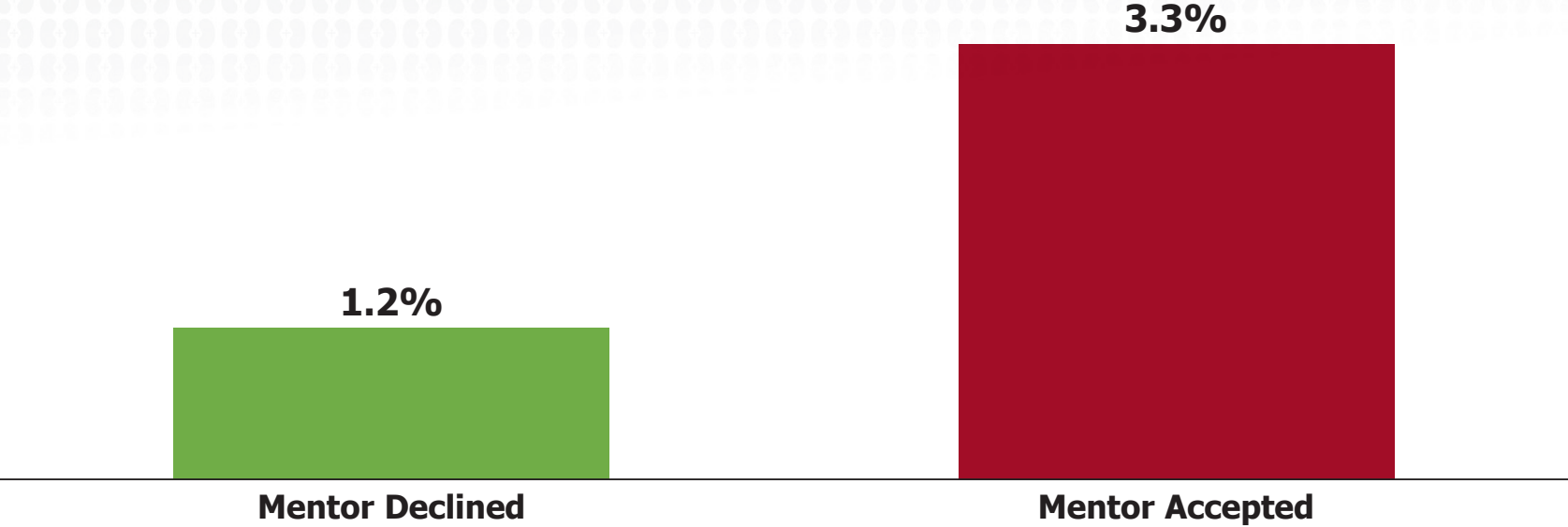
**Average Referrals:** (Annualized Current Year Referrals + Prior Year Referrals) / 2





# Higher Conversion Rates with Donor Connect

## Mentoring Continues to Greatly Improve Private Label DASH Donation Rates in 2023



	Mentor Declined	Mentor Accepted
2023 Donations (Annualized)	98	421
2023 Registrations (Annualized)	9,044	13,828
2022 Registrations	7,863	11,388
Registrations Annualized Average	8,454	12,608
Registration to Donation Rate	1.16%	3.34%

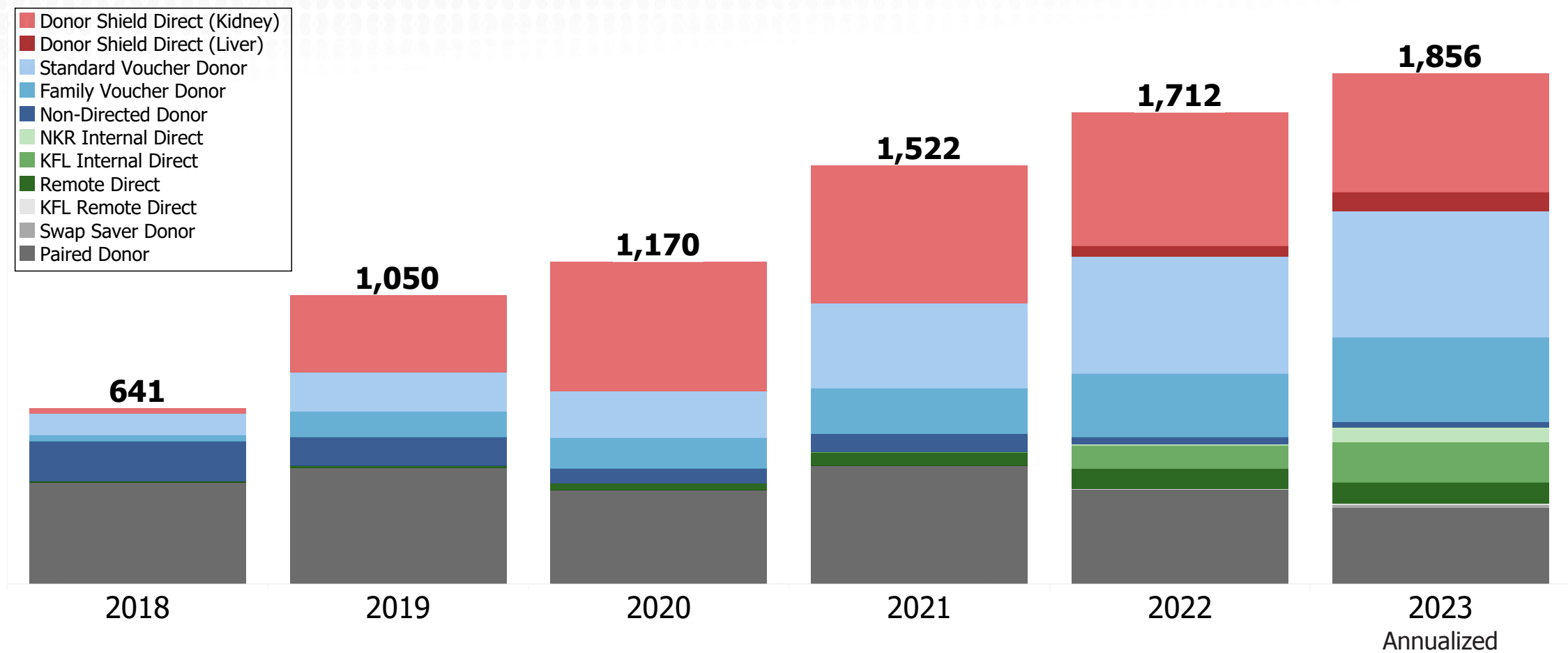
Data for all private label DASH registrants across all centers who were offered a mentor during registration.  
43% of all private label DASH registrants were offered a mentor in 2022. All NKR registrants are offered a mentor.  
Donor registration conversion rate: 2023 Donations Annualized / Average Registrations. Average Registrations: (2023 Registrations Annualized + 2022 Registrations) / 2  
2023 data annualized from 1/1/2023 – 3/31/2023





# Living Donors Supported and Protected

By Donor Type

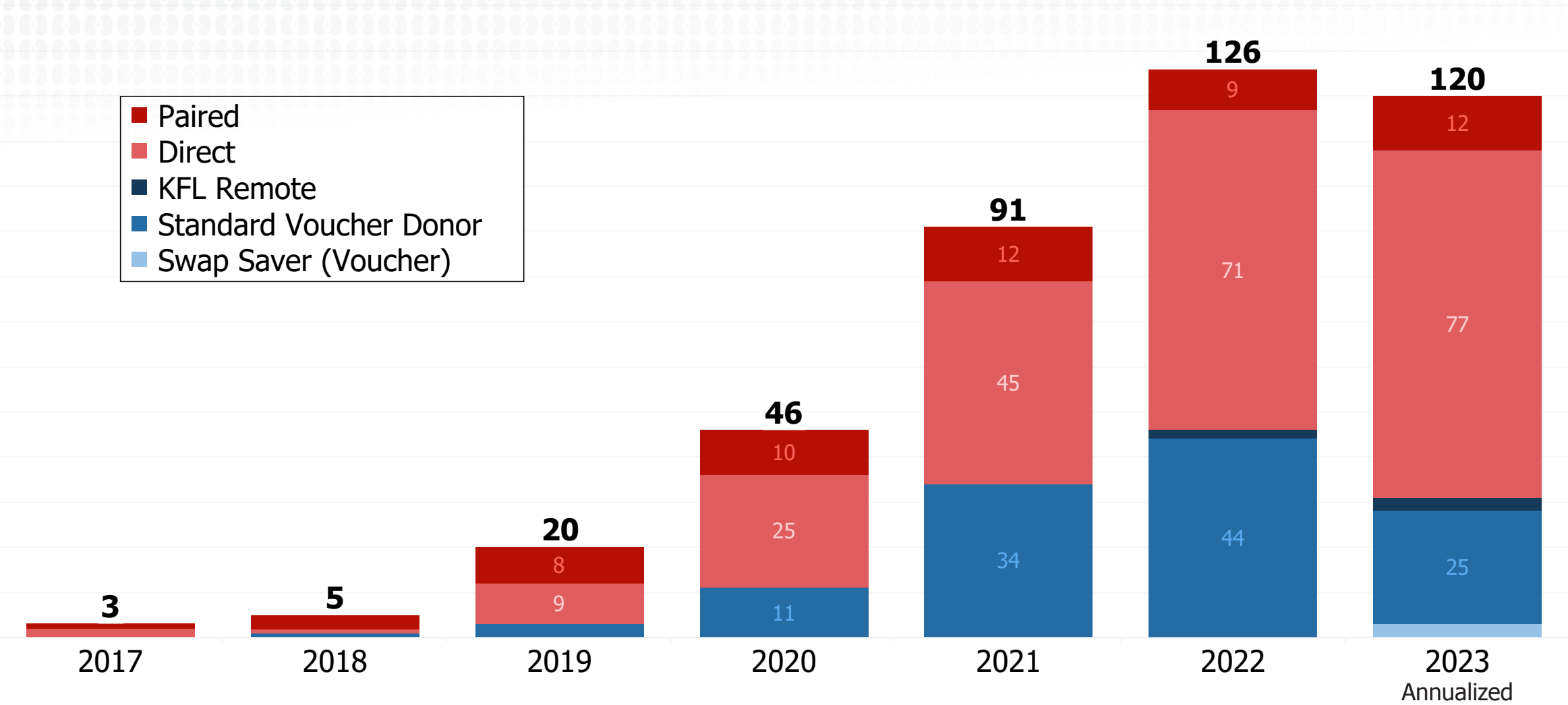


As of 4/28/2023  
To learn more about the Donor Shield protections [click here](#).





# Remote Donations by Donor Type

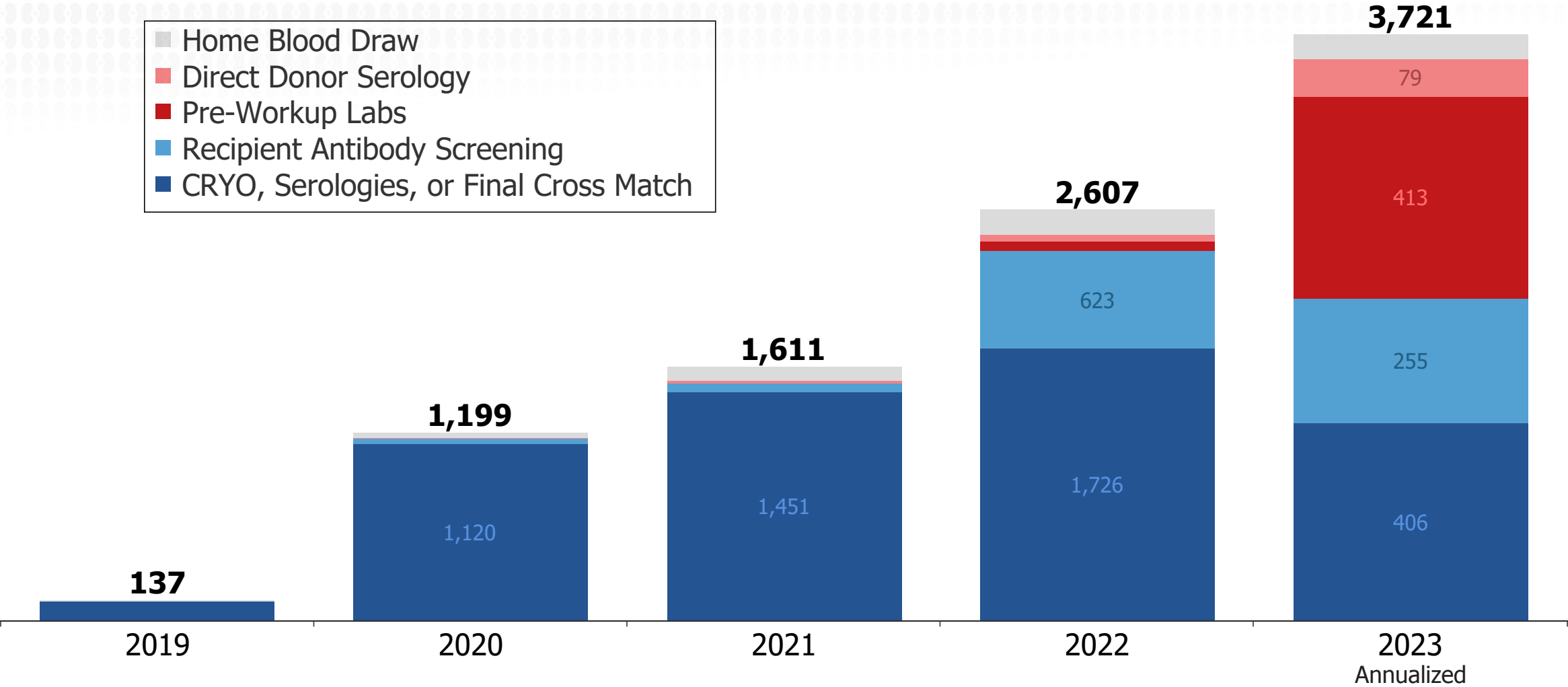


As of 4/28/2023





# Home Blood Draw Requests

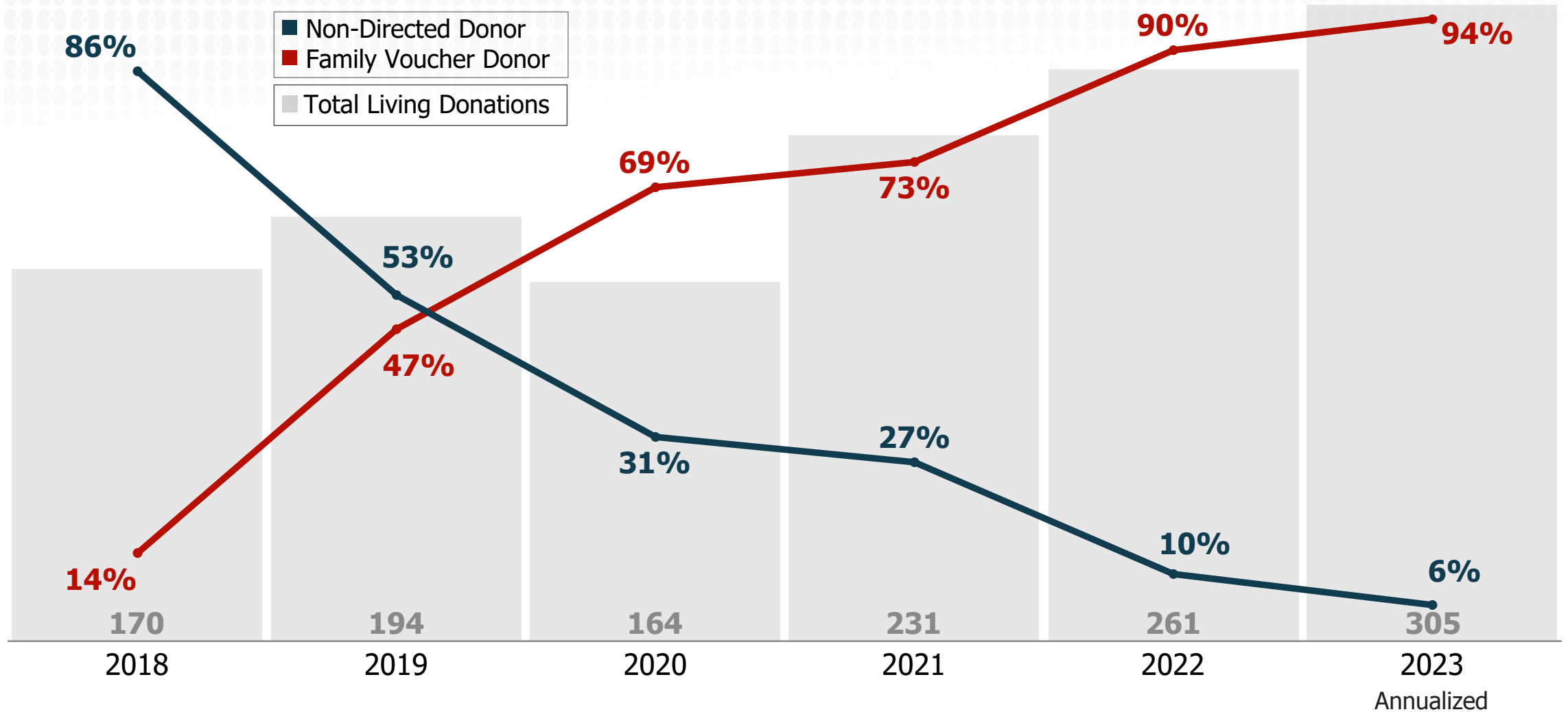


As of 4/28/2023





# Transition to Family Voucher Donation



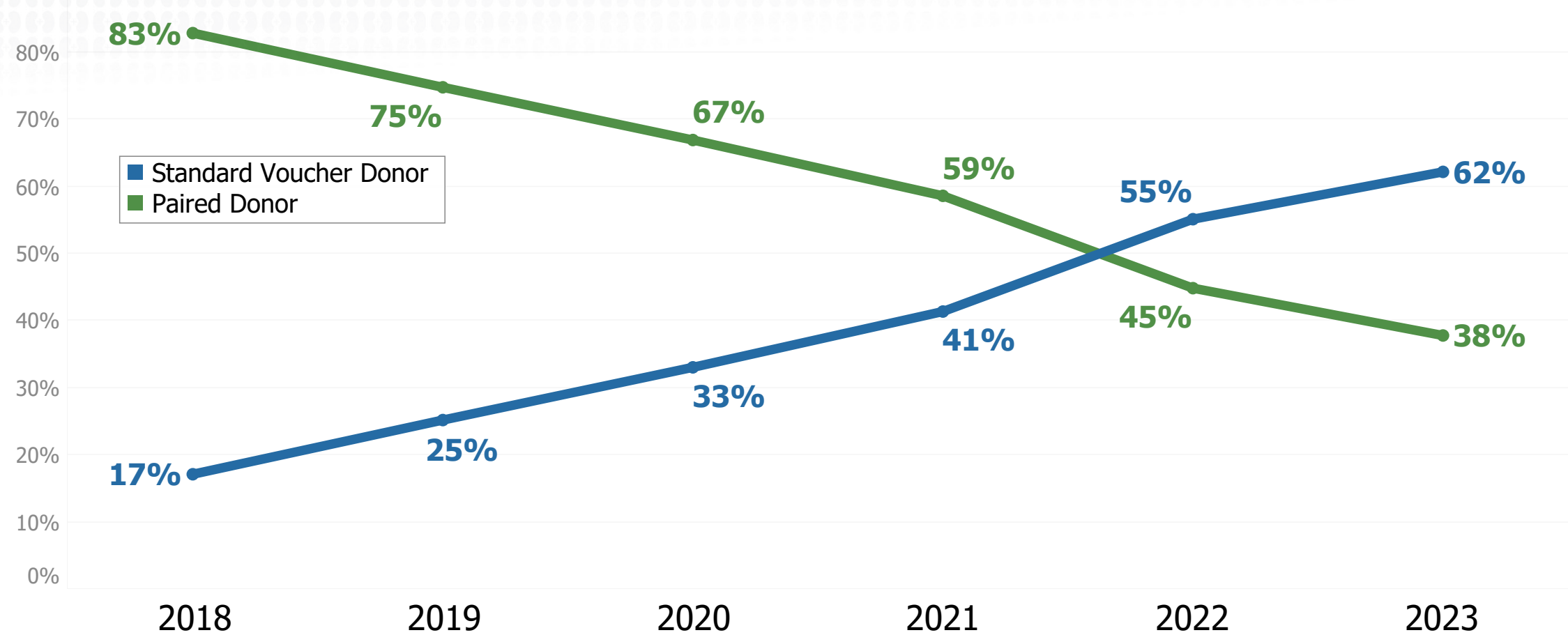
As of 4/28/2023





# Decoupling Trend

Transition from Paired to Standard Voucher Donation



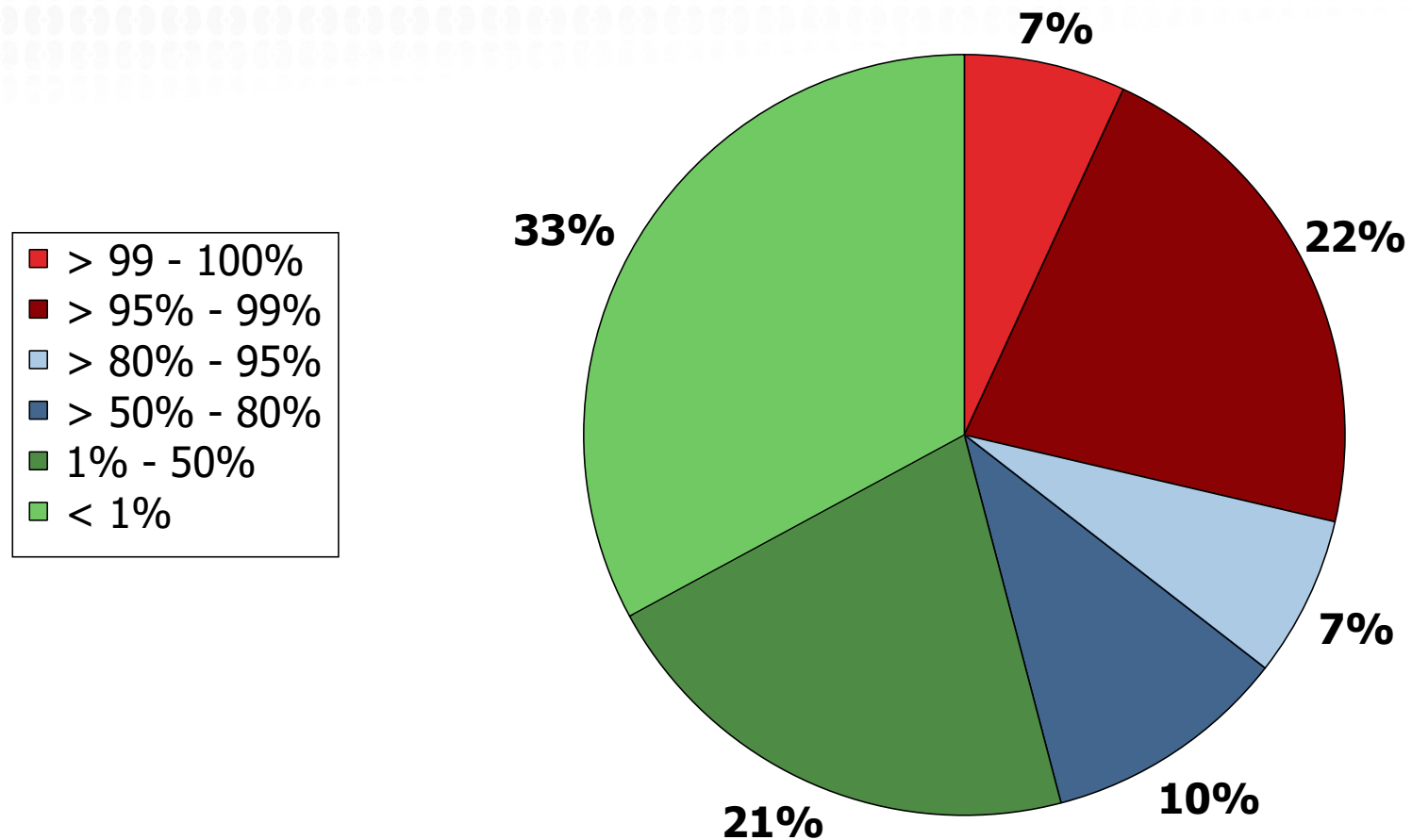
As of 4/28/2023





# Pool Composition by cPRA

## Unmatched Paired and Voucher Patients



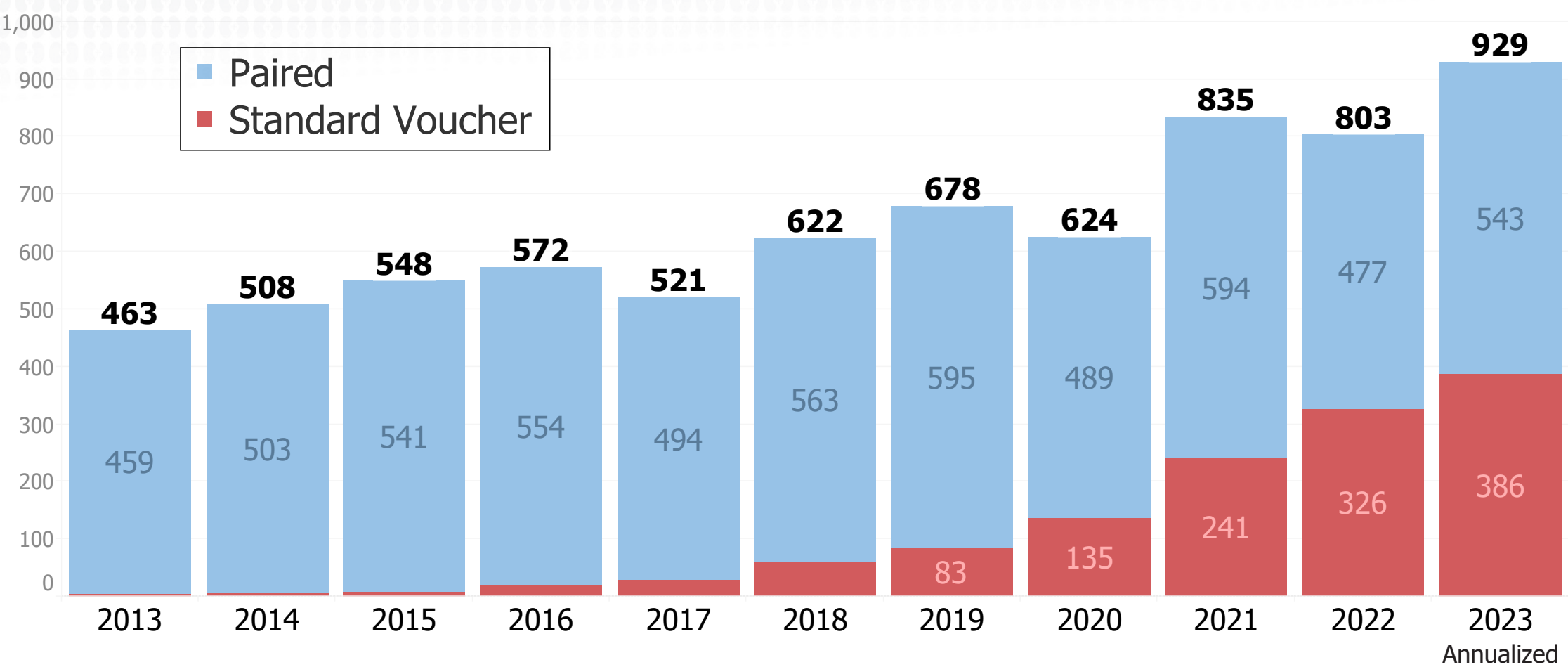
As of 4/28/2023





# New Exportable Patients

Paired and Standard Voucher



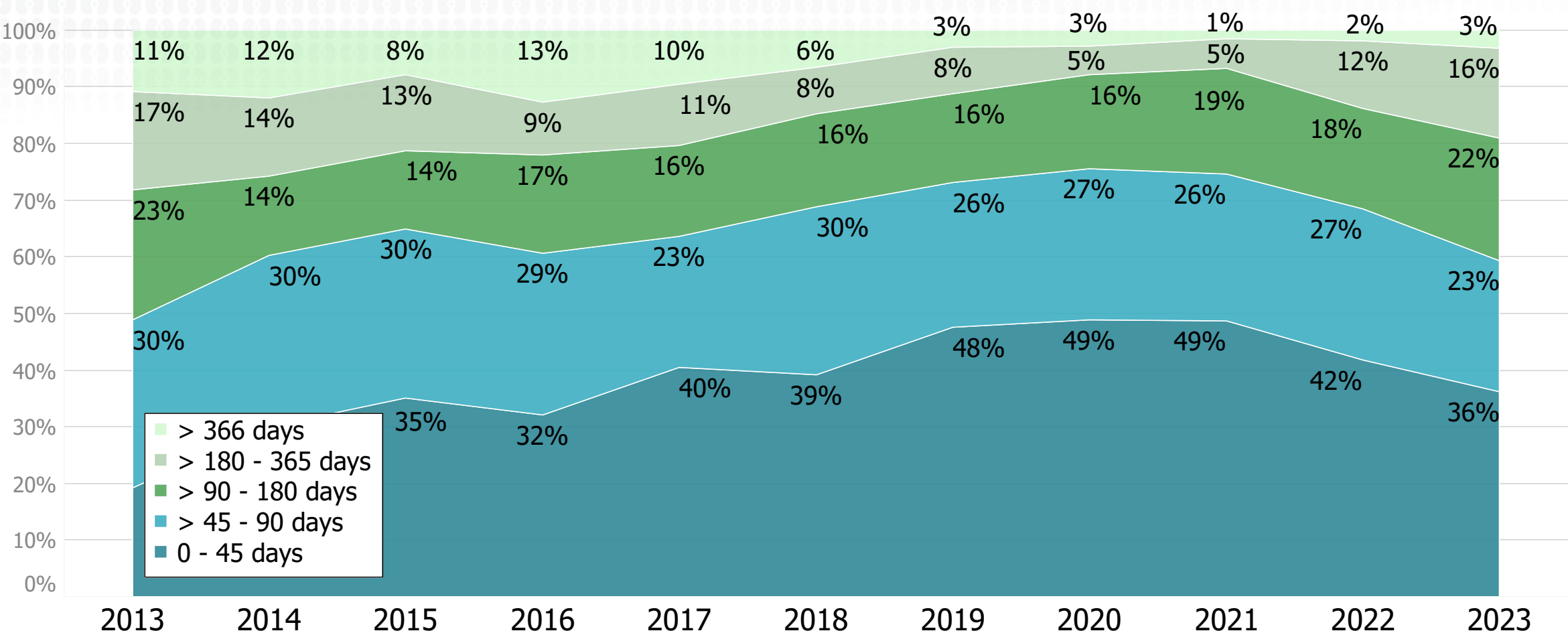
Data for paired and standard voucher patients only. As of 4/28/2023





# Wait Time Distribution

From Exportability to Transplant

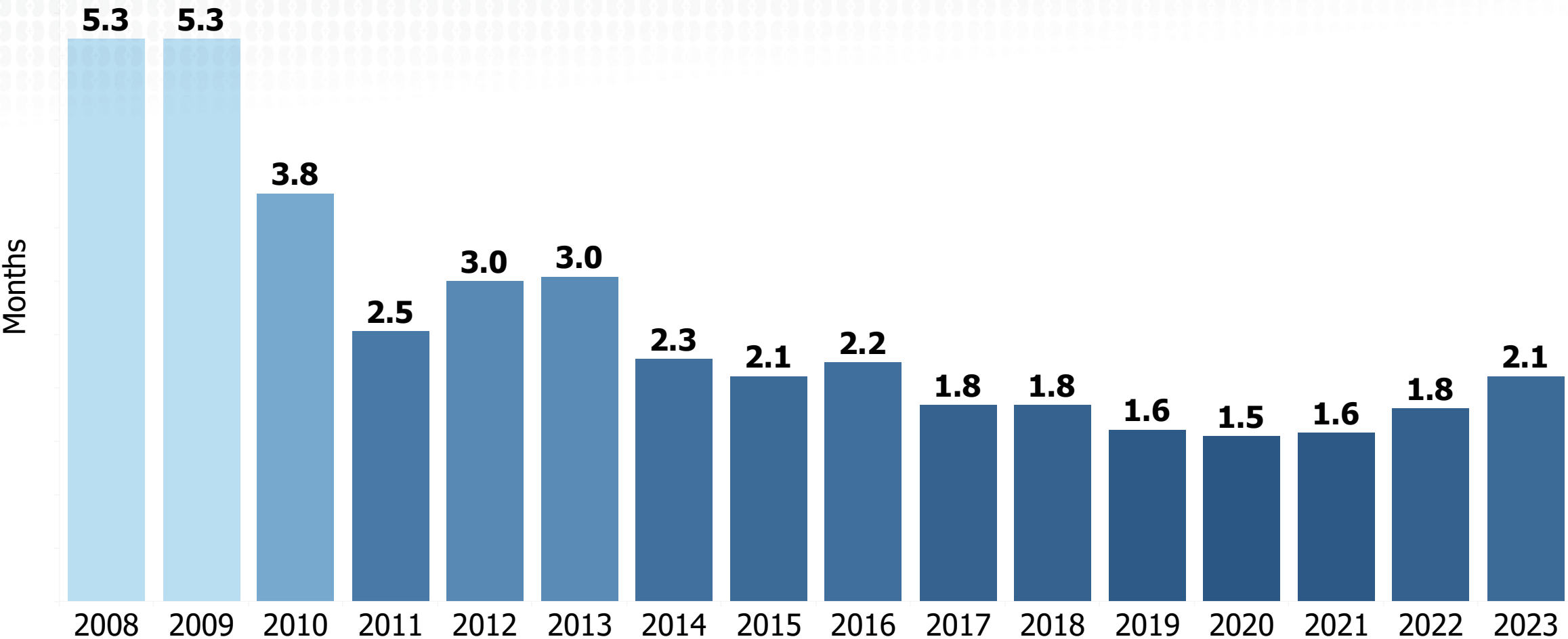


Excludes non-KPD and waitlist patient transplants.  
As of 4/28/2023





# Median Wait Time to Transplant



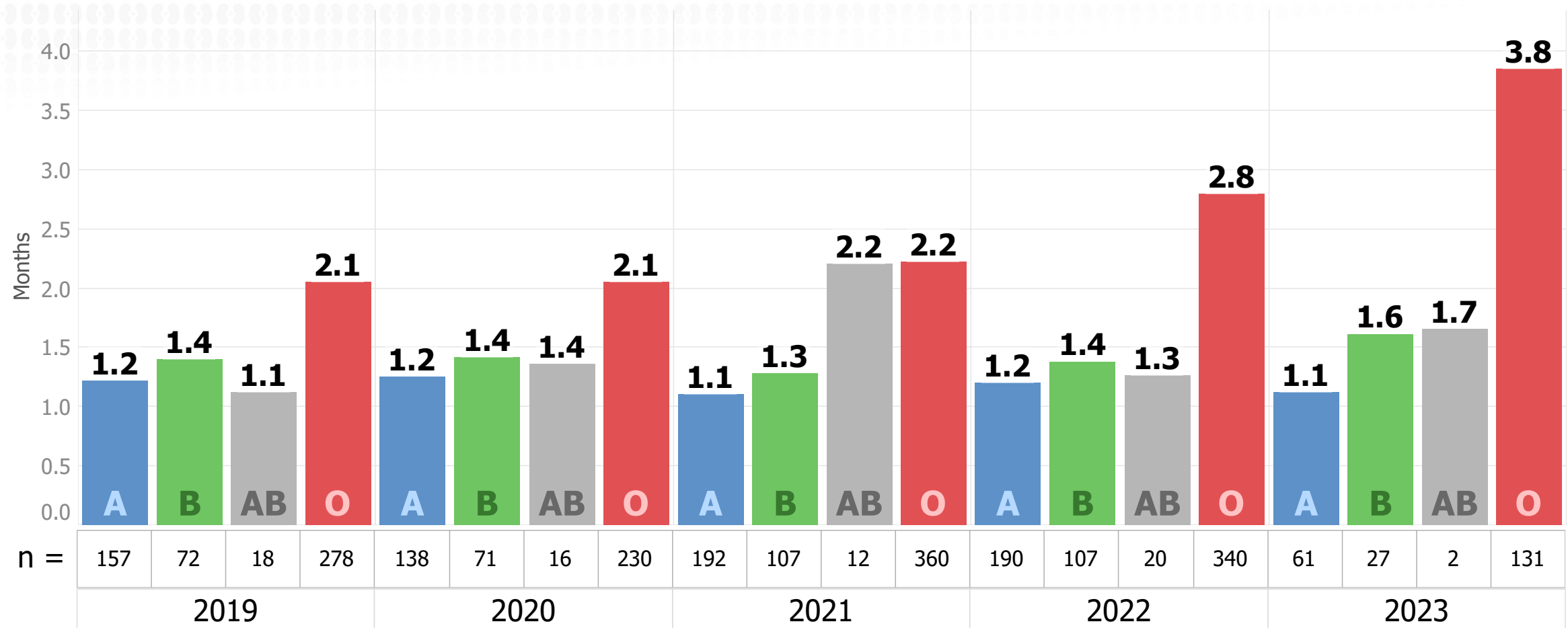
*Total wait time including paired and voucher. Excludes non-KPD and waitlist patient transplants.  
As of 4/28/2023*





# 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 4/17/2023





# Patients Waiting More Than One Year

Due to High cPRA

## Paired Patients

#	Patient ID	Patient ABO	cPRA	Months Wait
1	5501	B	100.00	88
2	12411	A	100.00	31
3	10569	A	100.00	22
4	10275	B	100.00	19
5	14941	O	100.00	17
6	15347	A	100.00	15
7	15219	B	100.00	15
8	15355	O	100.00	14
9	15260	A	99.99	14
10	12565	O	99.98	24
11	15238	O	99.97	14
12	15282	O	99.96	15
13	14460	O	99.92	19
14	13846	A	99.90	18
15	12067	B	99.86	14
16	12794	O	99.77	24
17	12531	O	99.73	23
18	14911	O	99.70	12
19	10632	O	99.60	15
20	14093	O	99.52	20
21	15904	O	99.32	13

## Voucher Patients

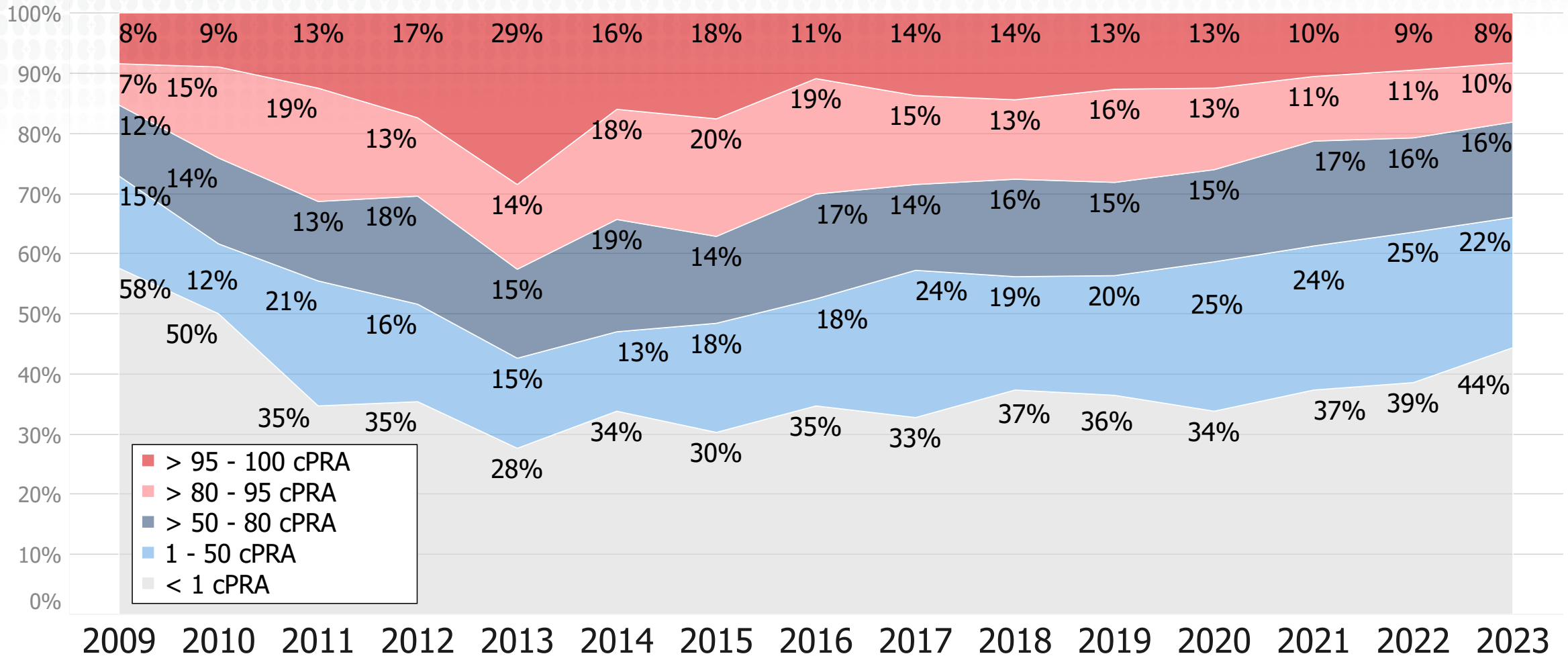
#	Patient ID	Patient ABO	cPRA	Months Wait
1	11378	A	100.00	39
2	13055	O	100.00	27
3	10069	A	99.99	43
4	11047	A	99.99	39
5	14403	O	99.98	17

As of 4/14/2023. Includes all patients exportable in the NKR pool with a cPRA >99.00





# Transplanted Recipients by cPRA



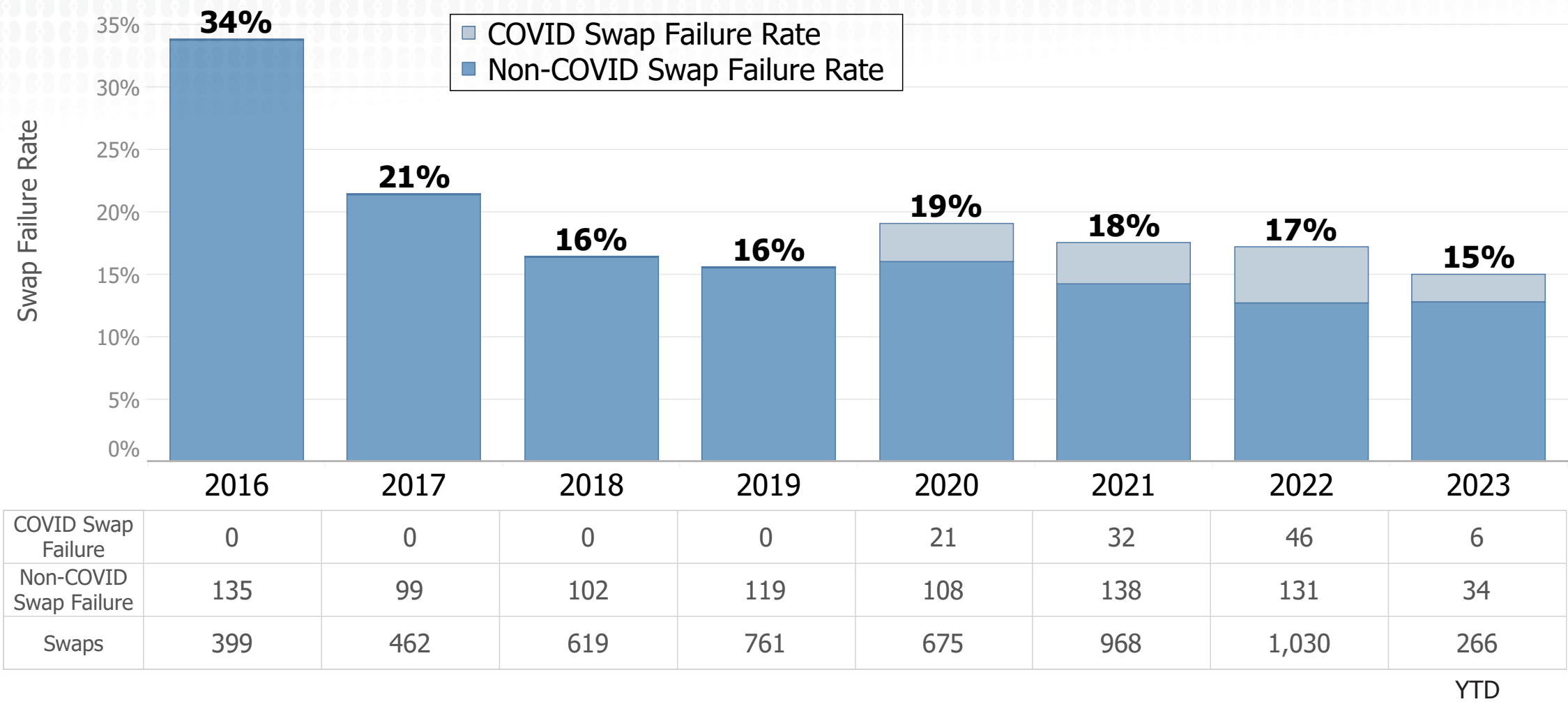
As of 4/28/2023

Excludes all non-KPD and waitlist patient transplants.





# Swap Failure Rates

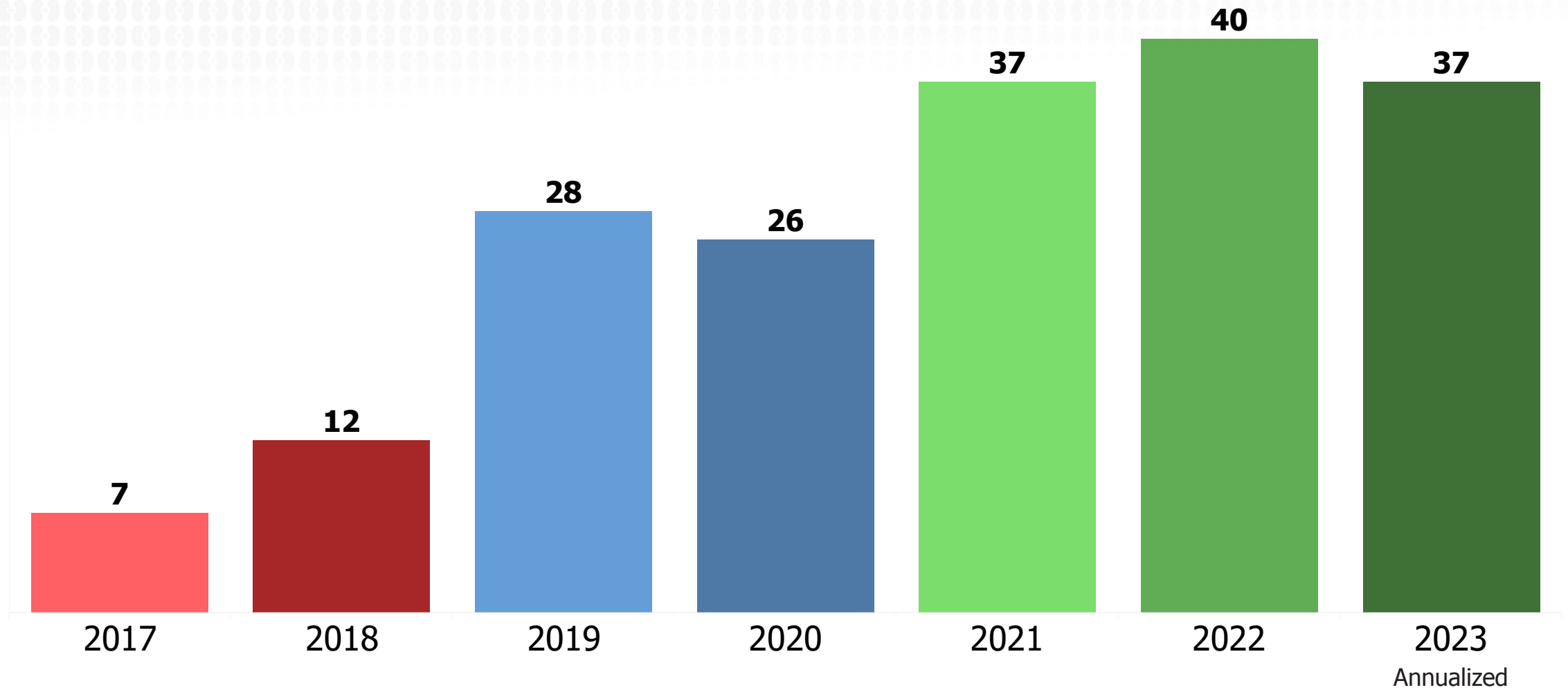


As of 4/4/2023





# Swaps Saved by Swap Saver Voucher Donors



As of 4/28/2023





# Resources

kidneyregistry.org

donor-shield.org

kidneytransplantcenters.org

donorcarenet.org

kidneyforlife.org

findakidney.org

livingdonorgames.org

