



NATIONAL KIDNEY REGISTRY®
FACILITATING LIVING DONOR TRANSPLANTS

Quarterly Report

Q3 2024

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Message from the Founder and CEO



We are on track to facilitate approximately 1,700 transplants this year, up from 1,439 transplants facilitated in 2023, representing approximately 26% of all living donor kidney transplants in the United States. This strong growth has been driven by several key factors: increases in microsite patient transplants, growth in NKR donor candidates referred to Member Centers, and an expanding number of compatible pairs seeking low eplet mismatched donors through our Kidney for Life (KFL) platform.

Our recently updated outcome report demonstrates better outcomes from NKR-facilitated transplants in a patient population that is generally correlated with worse outcomes. Patients transplanted via NKR swaps had a 17% lower graft failure rate at three years post-transplant. These superior outcomes are primarily driven by the increasing number of patients receiving low eplet mismatched kidneys and improved matches (i.e., clean crossmatches) for highly sensitized patients.

Our expanding enrollment of compatible pairs seeking low eplet mismatch transplants is improving outcomes while enabling more matches and shorter wait times for incompatible pairs and voucher holders (typically O blood type patients).

This success would not have been possible without all the dedicated medical professionals at our Member Centers, which has enabled us to continue breaking records and achieving new milestones.

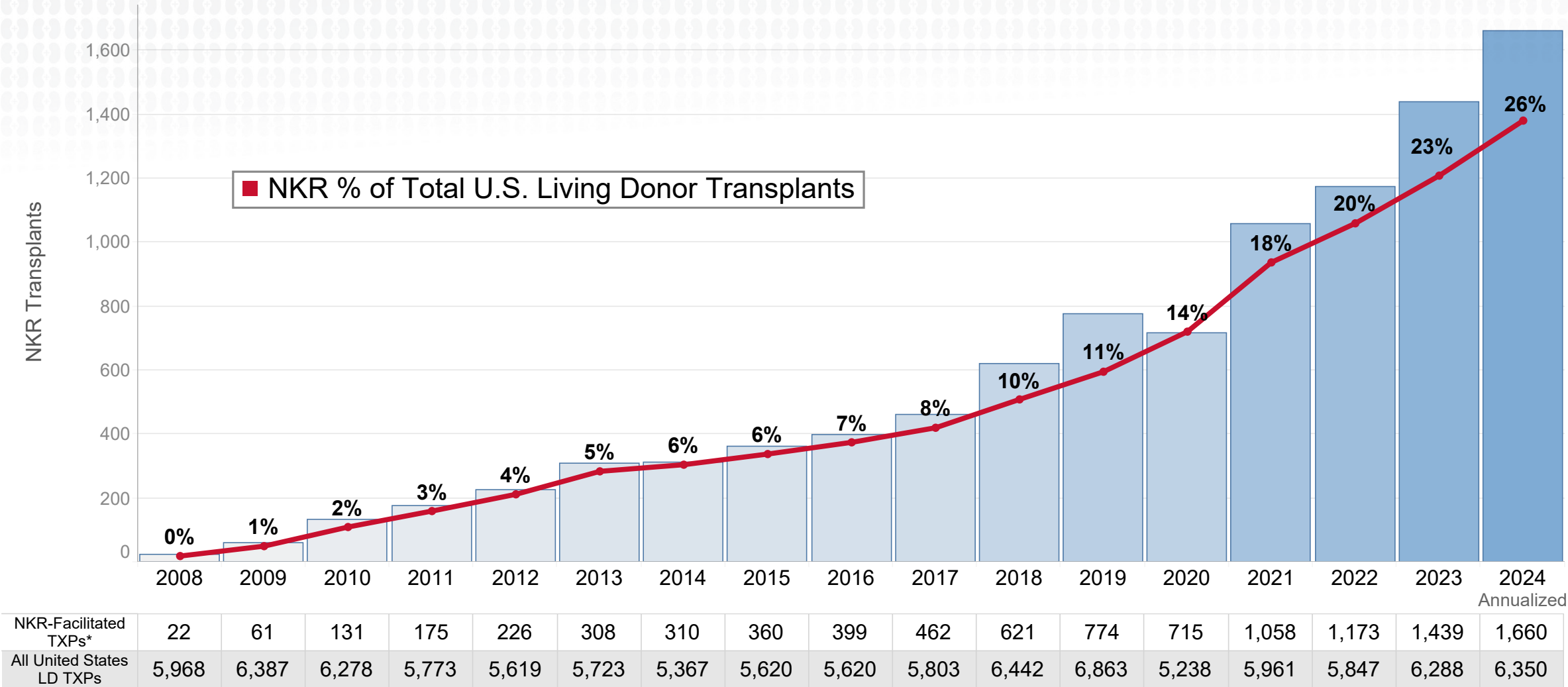
Thank you for your support and keep up the great work!

Sincerely,

A handwritten signature in blue ink, appearing to read 'G. Hil', with a stylized flourish at the end.

Gareth Hil
Founder & CEO
National Kidney Registry
Living Kidney Donor

NKR Growth: Facilitated Transplants

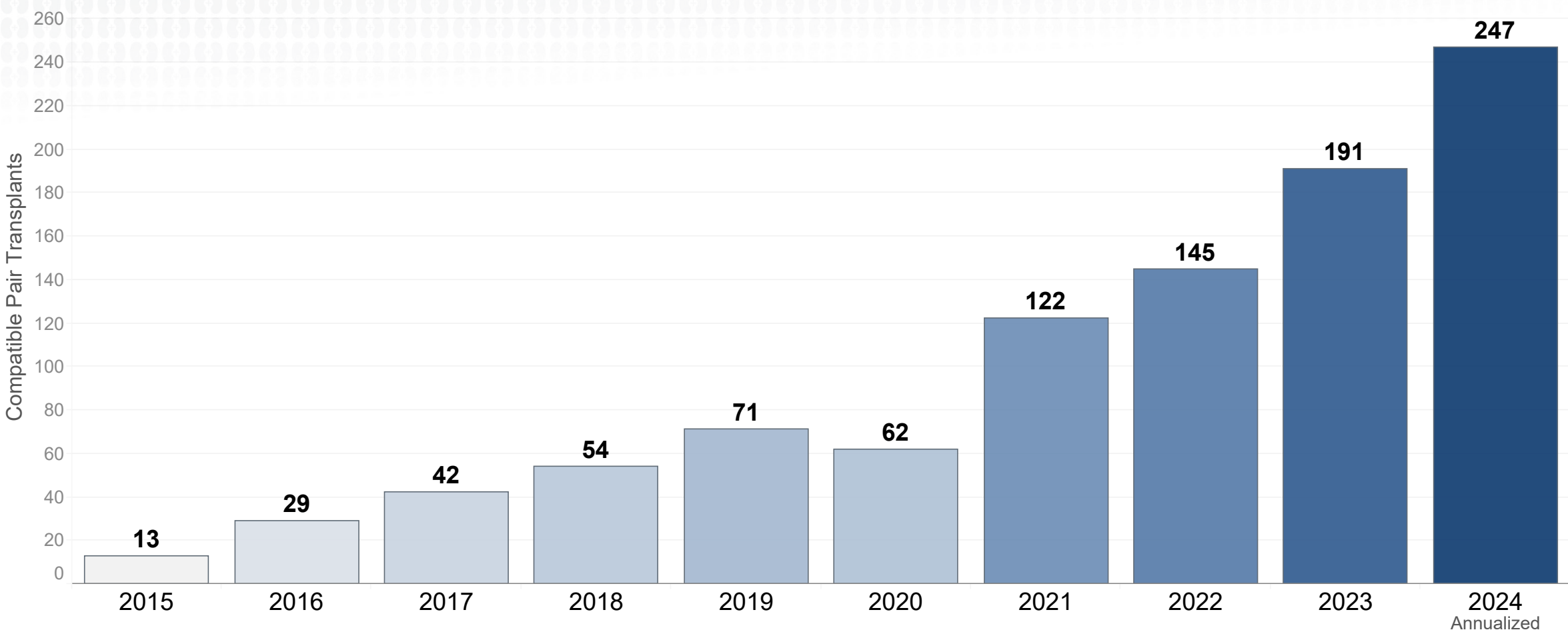


Total transplants are subject to change due to delayed reporting. NKR data captured 10/1/2024
*NKR-facilitated transplants (TXPs) include voucher, paired, remote direct, KFL remote direct, NKR internal direct, Microsite internal direct, and waitlist transplants.
**<https://optn.transplant.hrsa.gov/data/> U.S. Living Donor Transplants Performed: Data for OPTN 1/1/2008-5/31/2024



NKR Growth: Compatible Pair Transplants

Driven by the Kidney for Life Initiative

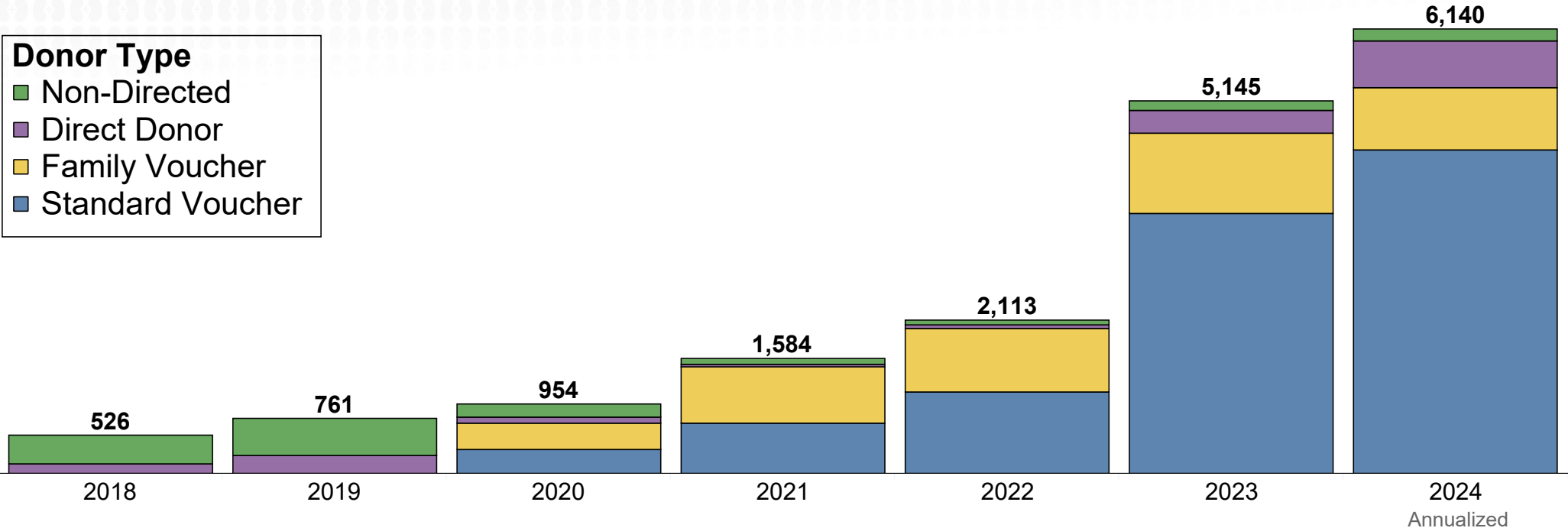


*Voucher and paired recipients across the NKR network.
A compatible pair is defined as a donor and recipient who are biologically compatible in terms of blood type and antibody compatibility.
As of 10/1/2024*



NKR Growth: Living Kidney Donor Referrals

Living Donor Registrants Who Completed Online Screening, Medical History, and Pre-Workup Labs

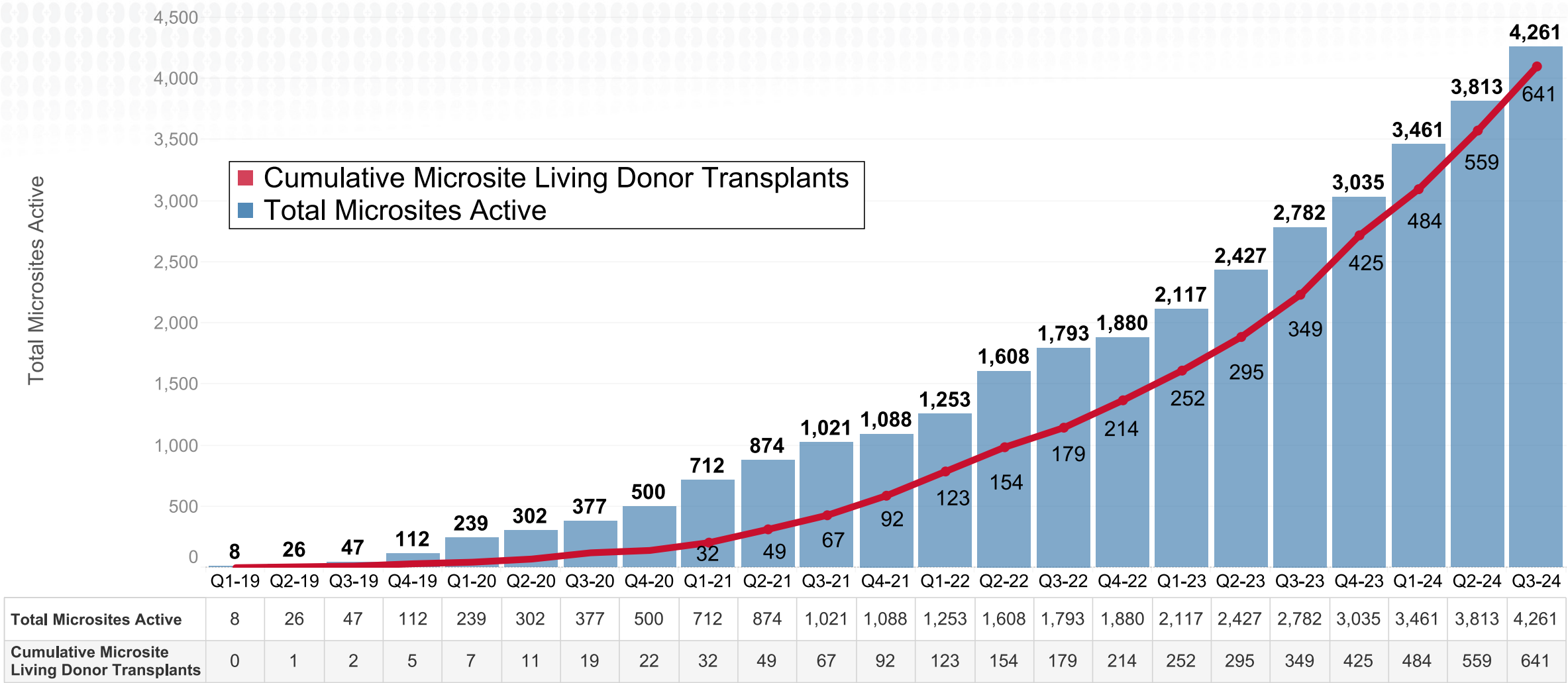


Non-Directed	396	505	171	81	62	137	173
Direct Donor	130	256	83	35	44	305	646
Family Voucher	N/A	N/A	362	771	891	1,116	864
Standard Voucher	N/A	N/A	338	697	1,116	3,587	4,457

Includes living kidney donor registrants from all NKR websites.
As of 10/1/2024



NKR Growth: Microsites

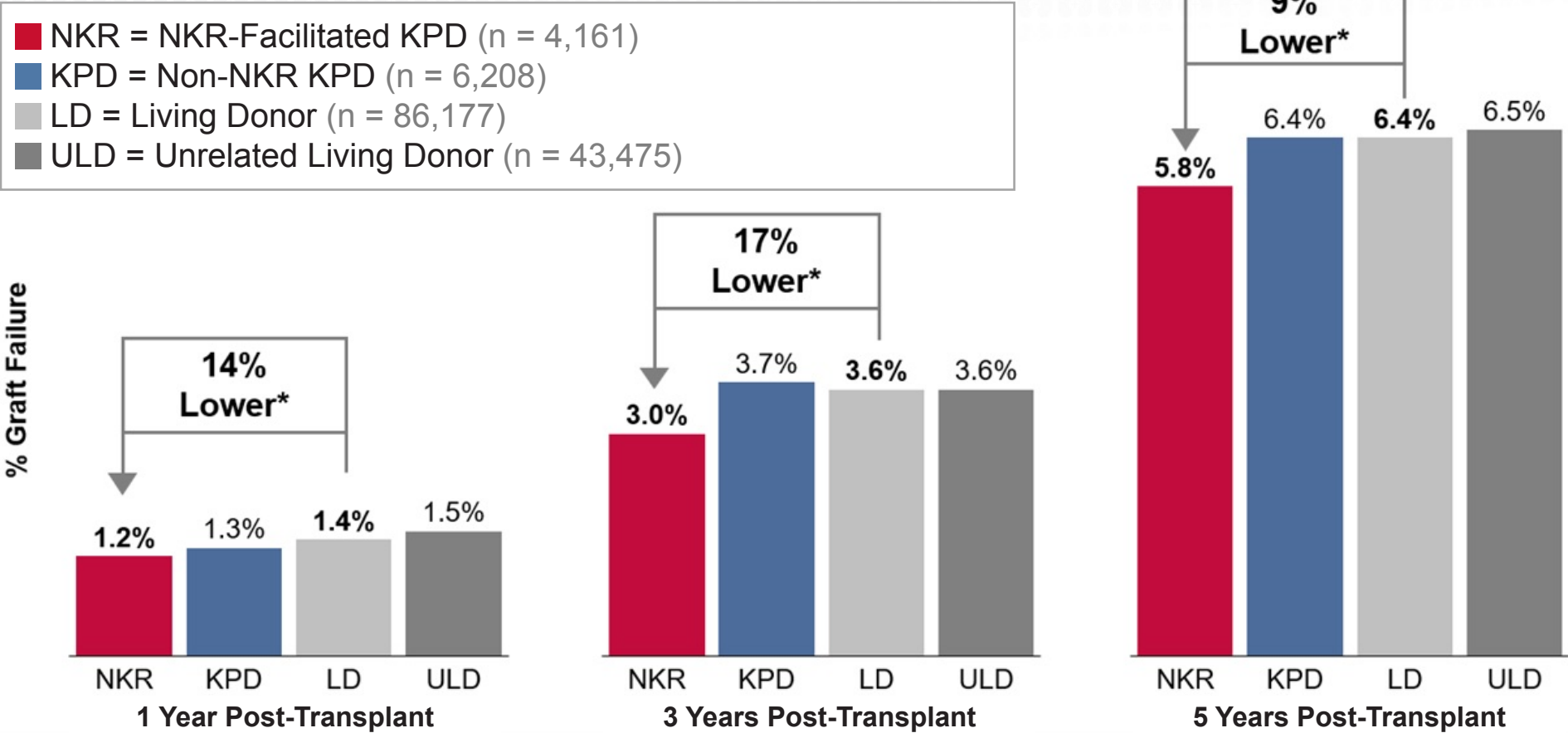


Cumulative living donor transplants are subject to change due to delays in transplant center reporting.
As of 10/1/2024



NKR Outcomes: Death-Censored Graft Failure Rates

NKR-Facilitated Outcomes Are the Best in the Industry

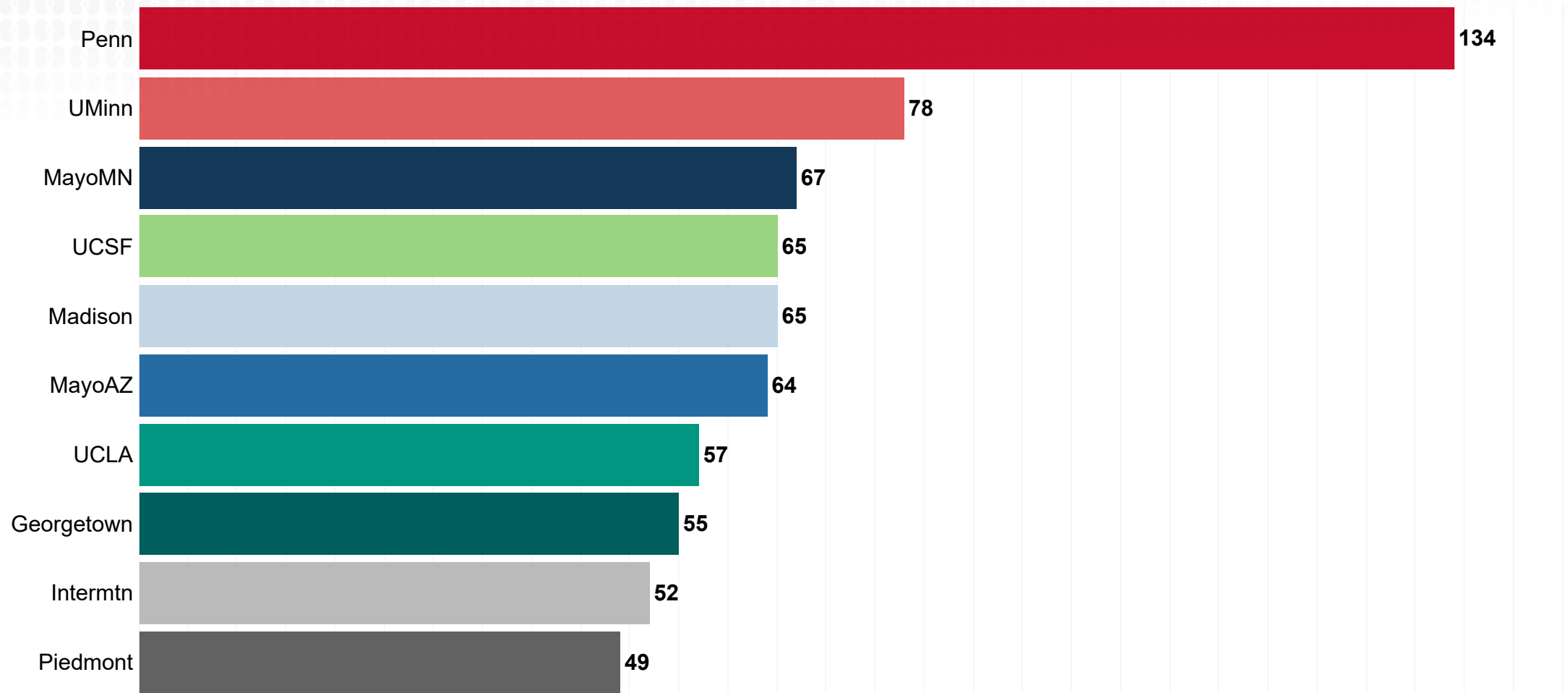


***Statistically Significant**
Excludes CHIP. Provided courtesy of CSTAR, Department of Surgery, NYU Grossman School of Medicine (Director: Dorry Segev)
Kaplan-Meier GS Rates for Transplants Study Period: 02/2008-3/2024 with follow-up through 6/30/2024
SRTR data as of August 2024 (<https://www.srtr.org/>)



Top 10 Centers: NKR-Facilitated Transplants

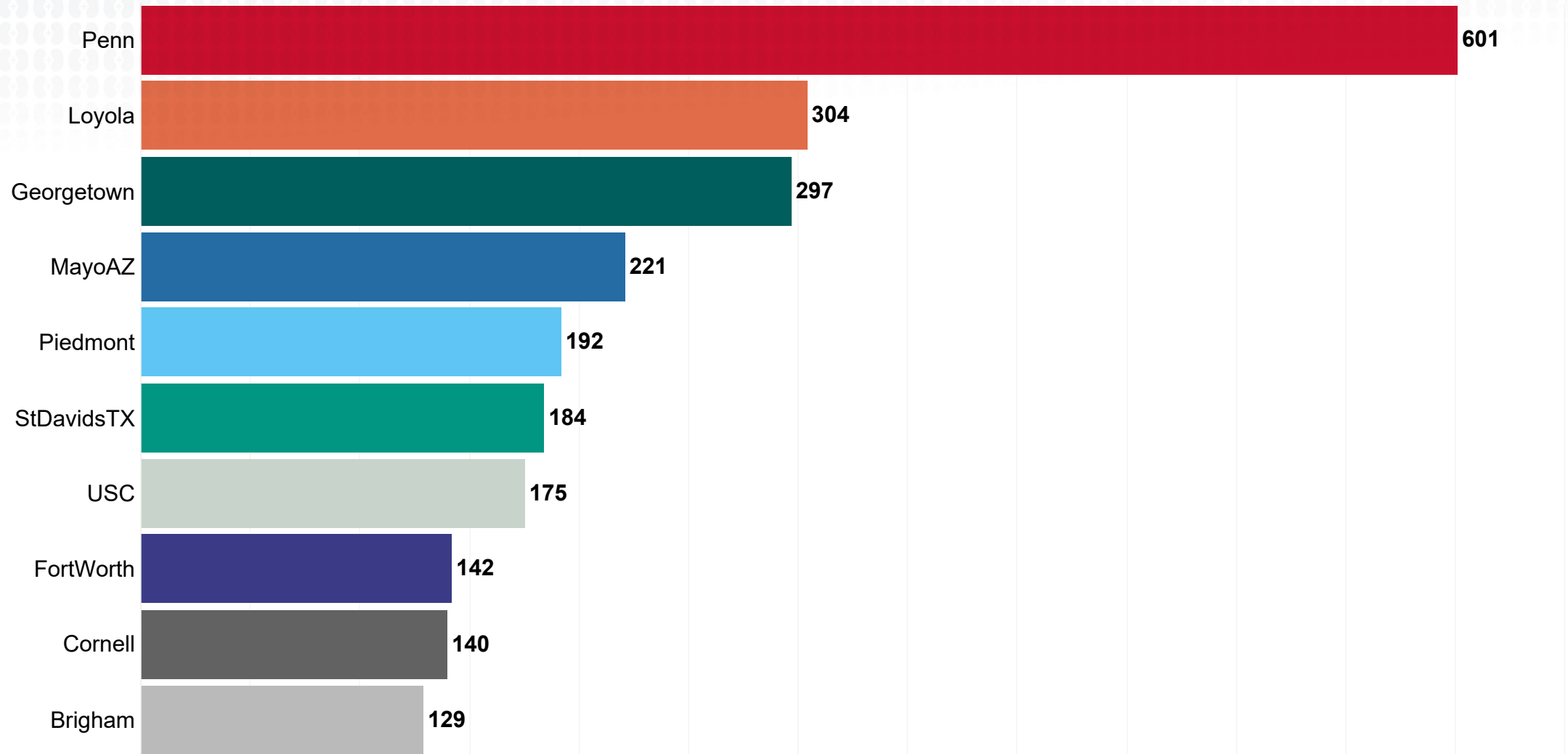
Last 12 Months



**NKR-facilitated transplants (TXPs) include voucher, paired, remote direct, KFL remote direct, NKR internal direct, Microsite internal direct, and waitlist transplants.
As of 10/1/2024*



Top 10 Centers: Active Microsites

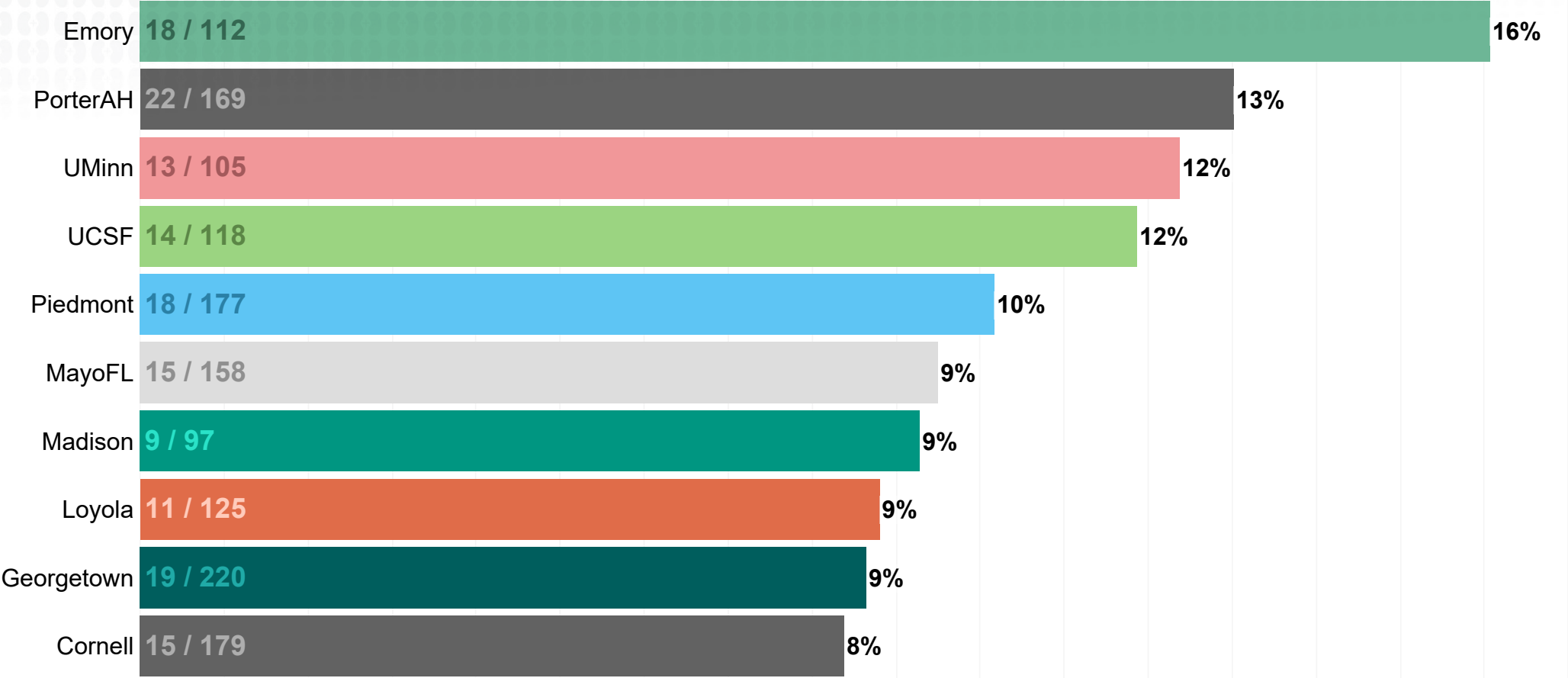


As of 10/1/2024



Top 10 Centers: NKR Donor Referral Conversion Rates

Donor Care Network Centers of Excellence

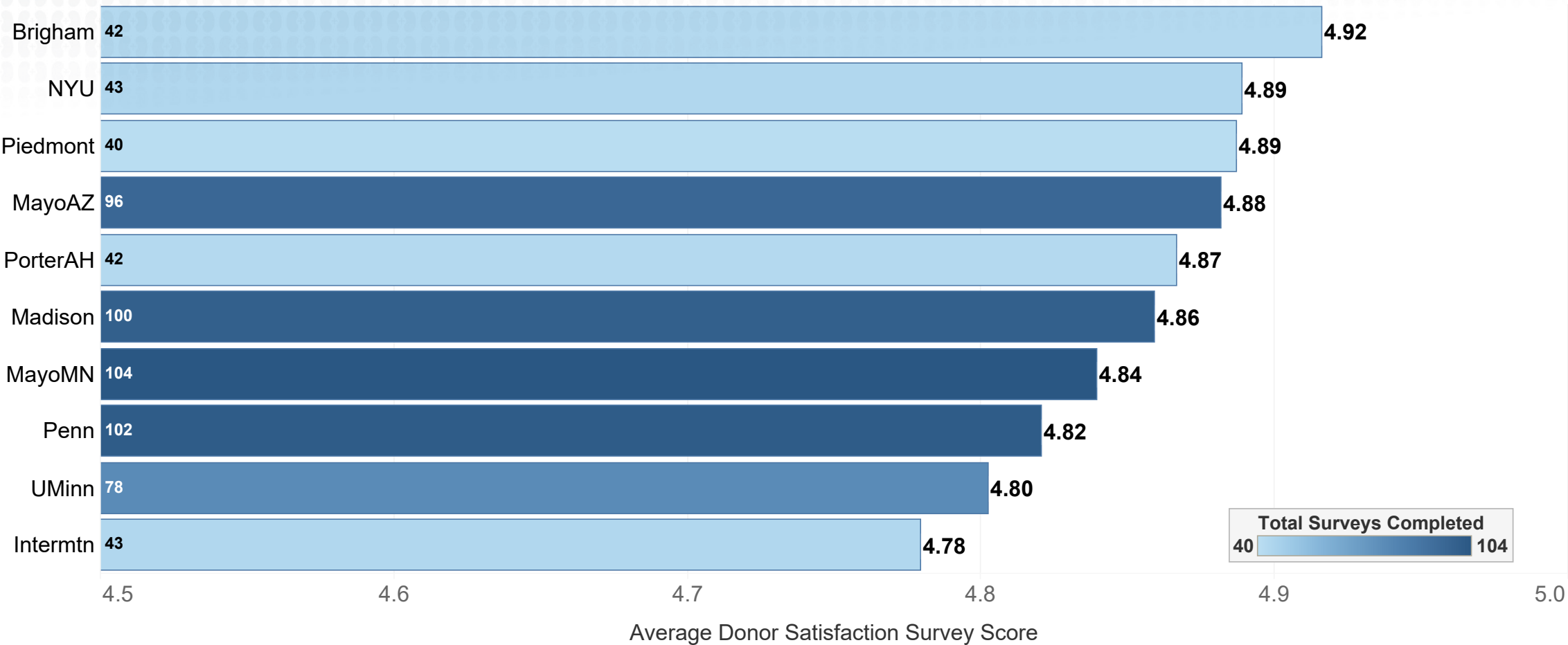


Excludes centers with less than 60 annualized average referrals.
Donor Care Network (DCN) Centers of Excellence: An elite group of transplant centers offering the highest level care and support to living kidney donors.
Formula: 2024 Annualized Donations / Annualized Average Referrals
Annualized Average Referrals: (Annualized Current Year Referrals + Prior Year Referrals) / 2
As of 10/1/2024



Top 10 Centers: Donor Satisfaction

Survey Responses Completed—Last 6 Months

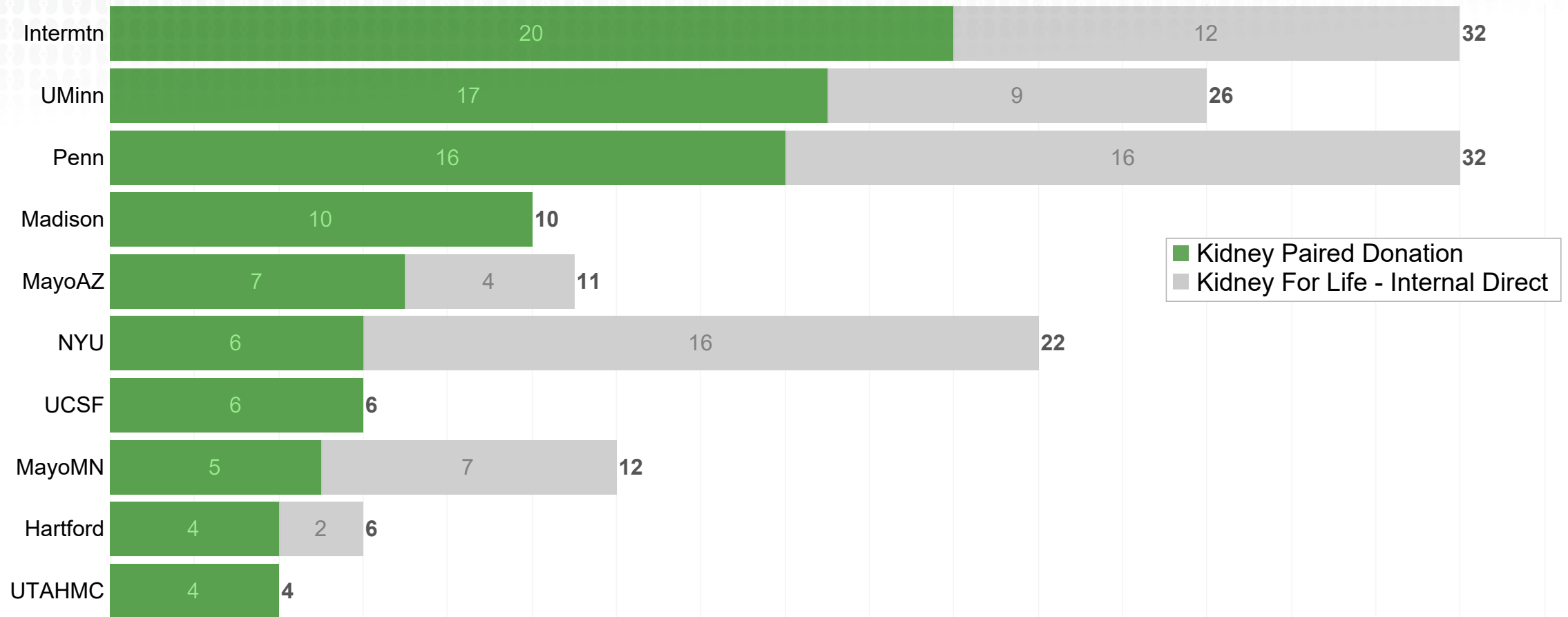


PL DASH centers only. A minimum of 40 completed surveys to qualify.
Average survey results including all workup, pre-op, surgery and post-surgery survey results.
As of 10/1/2024



Top 10 KFL Centers: Low Eplet Mismatch Transplants

Compatible Pairs—Last 12 Months



Excludes waitlist

The Kidney for Life (KFL) initiative of the National Kidney Registry provides an opportunity for a better donor-recipient match.

As of 10/1/2024

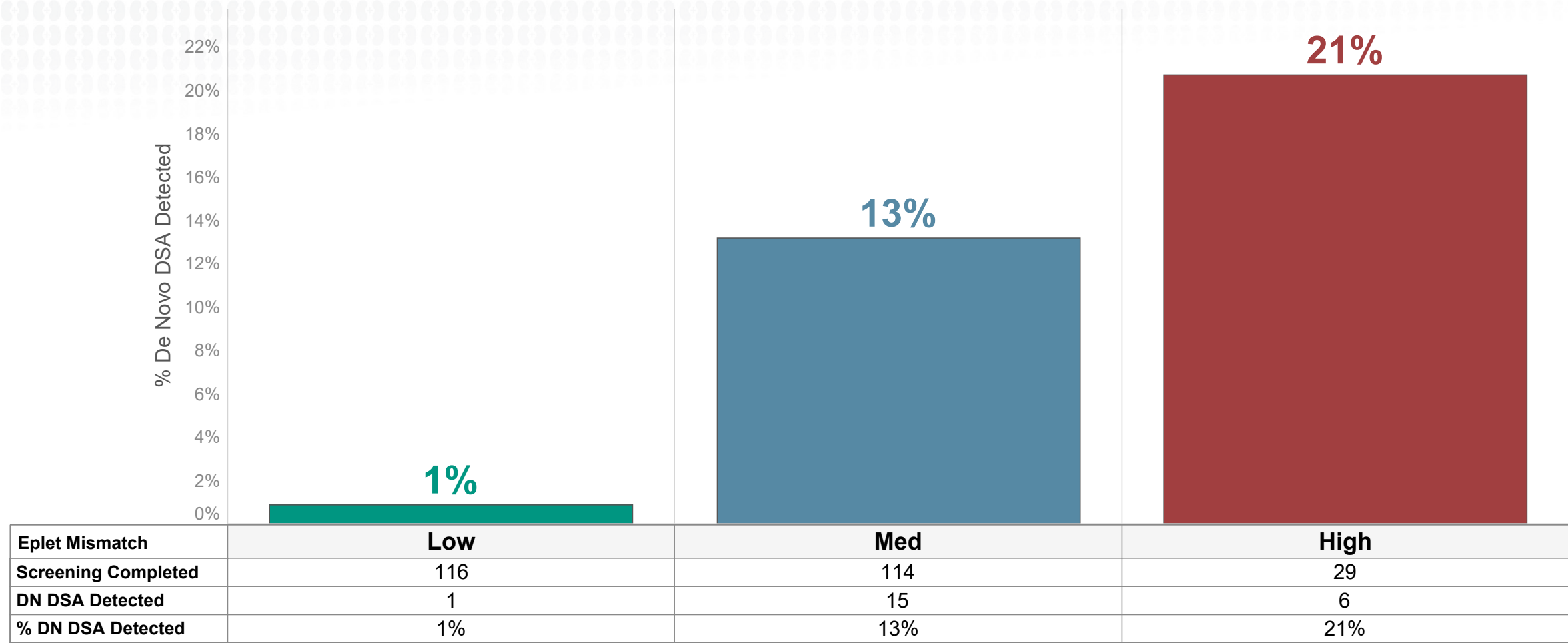
Eplet mismatch categories are based on the definition provided by Wiebe C, Kosmoliaptsis V, Pochinco D, et al. HLA-DR/DQ molecular mismatch: a prognostic biomarker for primary alloimmunity.

Am J Transplant. 2019;19:1708–1719. <https://doi.org/10.1111/ajt.15177>



KFL: 1-Year Antibody Screening Results

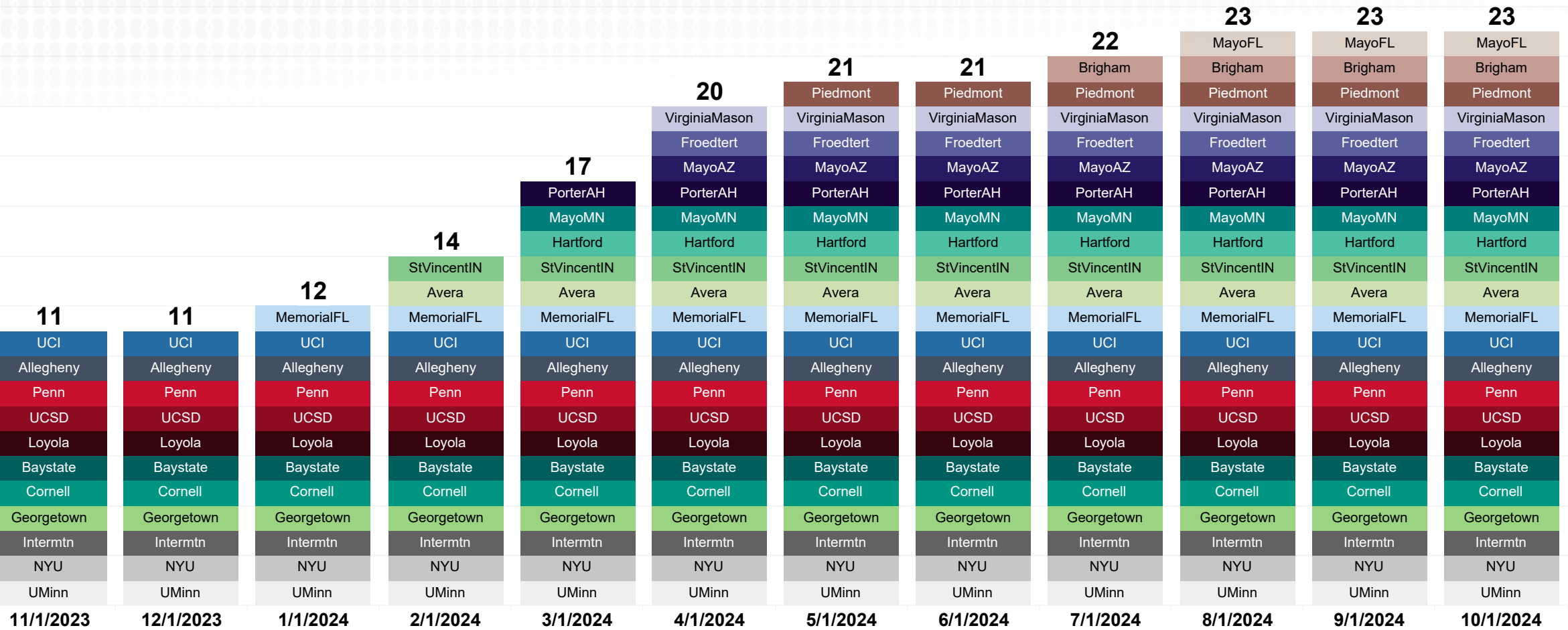
Unsensitized Recipients (n = 259)



Unsensitized recipients have a cPRA of 0
The Kidney for Life (KFL) initiative of the National Kidney Registry provides an opportunity for a better donor-recipient match.
As of 10/1/2024



KFL: Expert System Center Growth

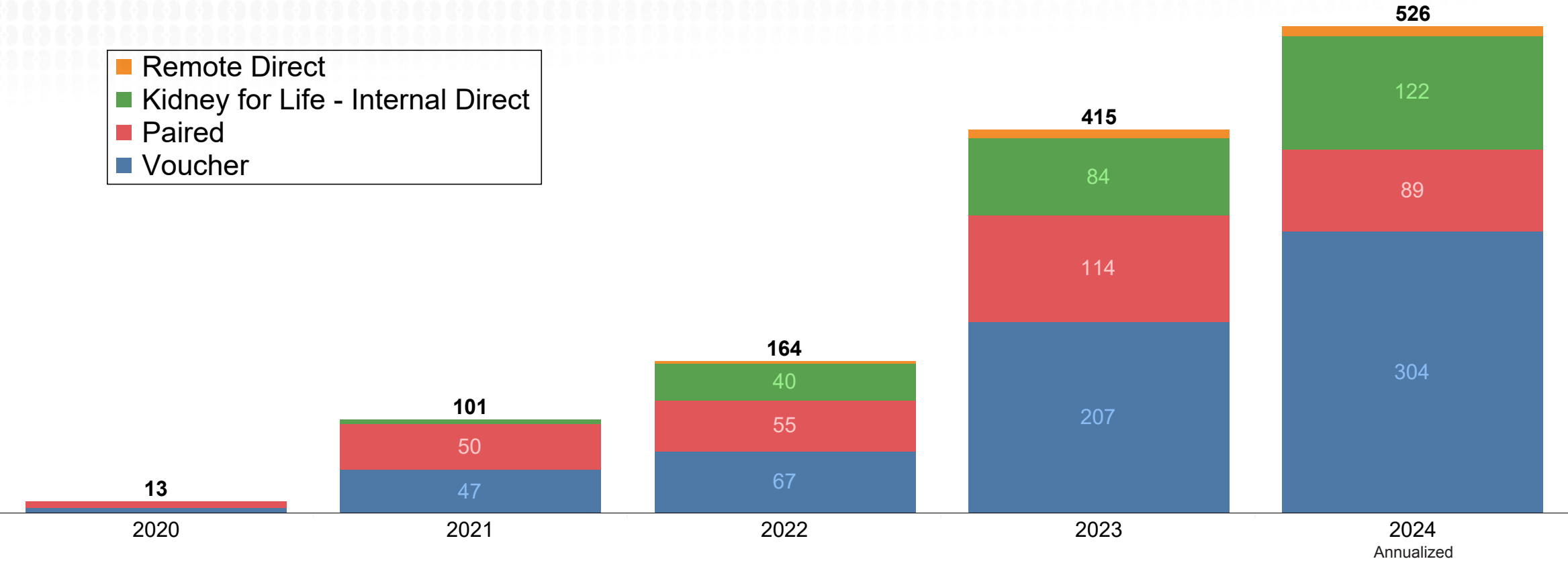


The Kidney for Life (KFL) initiative of the National Kidney Registry provides an opportunity for a better donor-recipient match.
As of 10/1/2024



Low Eplet Mismatch Transplants

Compatible and Incompatible

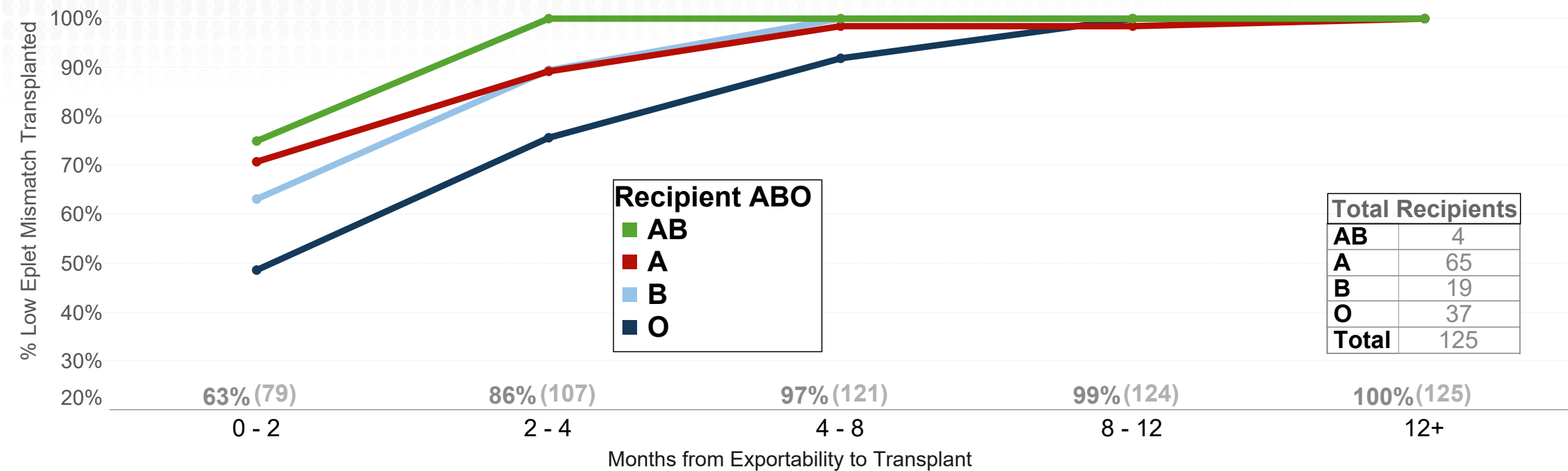


Excludes waitlist
The Kidney for Life (KFL) initiative of the National Kidney Registry provides an opportunity for a better donor-recipient match.
As of 10/1/2024
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Am J Transplant. 2019;19:1708–1719. <https://doi.org/10.1111/ajt.15177>



Actual Wait Times to Transplant

Compatible Pairs Who Received a Low Eplet Mismatch Transplant

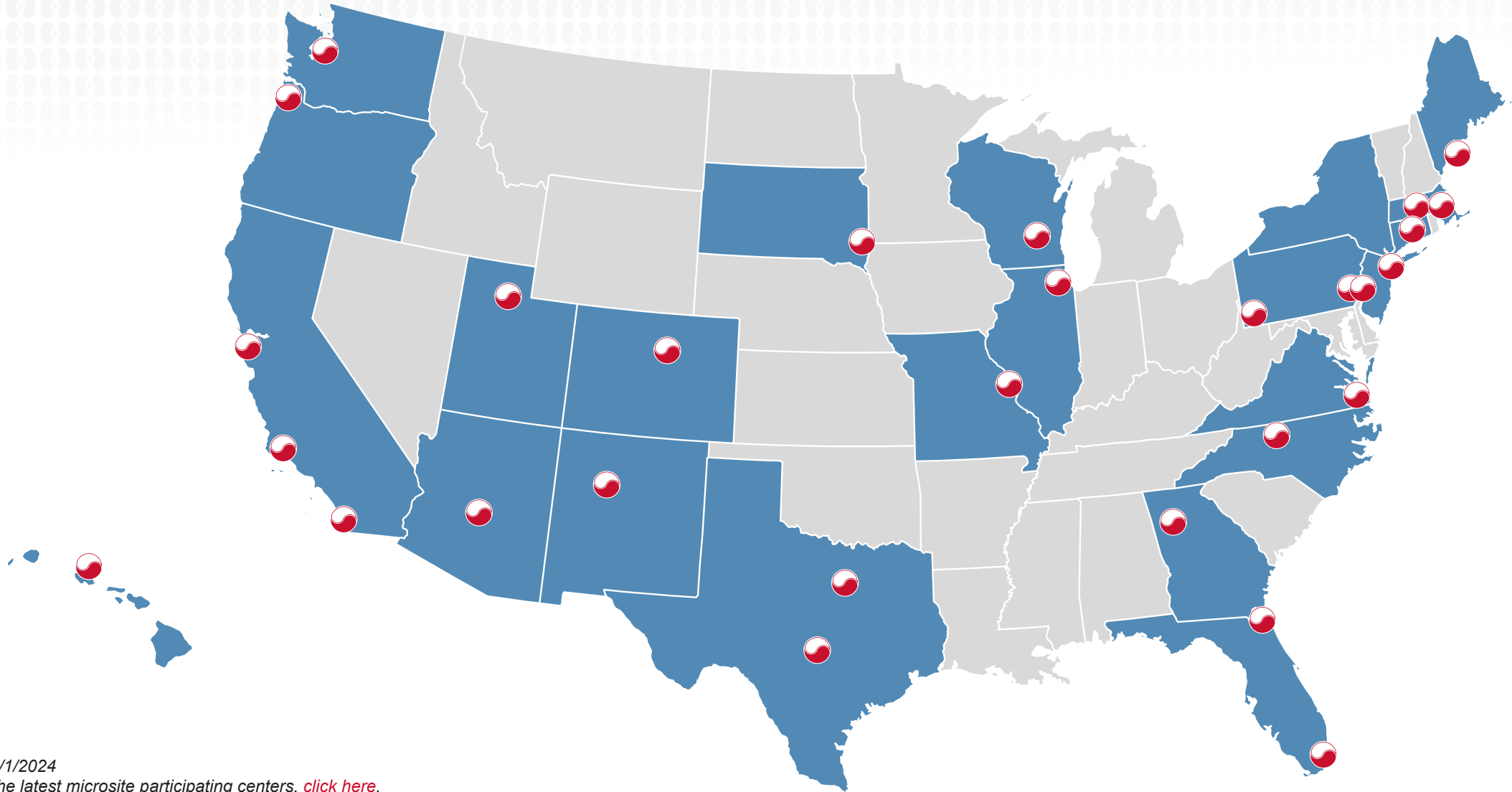


AB	75%	100%	100%	100%	100%
A	71%	89%	98%	98%	100%
B	63%	89%	100%	100%	100%
O	49%	76%	92%	100%	100%

Excludes KFL internal direct. Last 12 months to date. cPRA ≤ 99
The Kidney for Life (KFL) initiative of the National Kidney Registry provides an opportunity for a better donor-recipient match.
As of 10/1/2024



Microsite Centers of Excellence

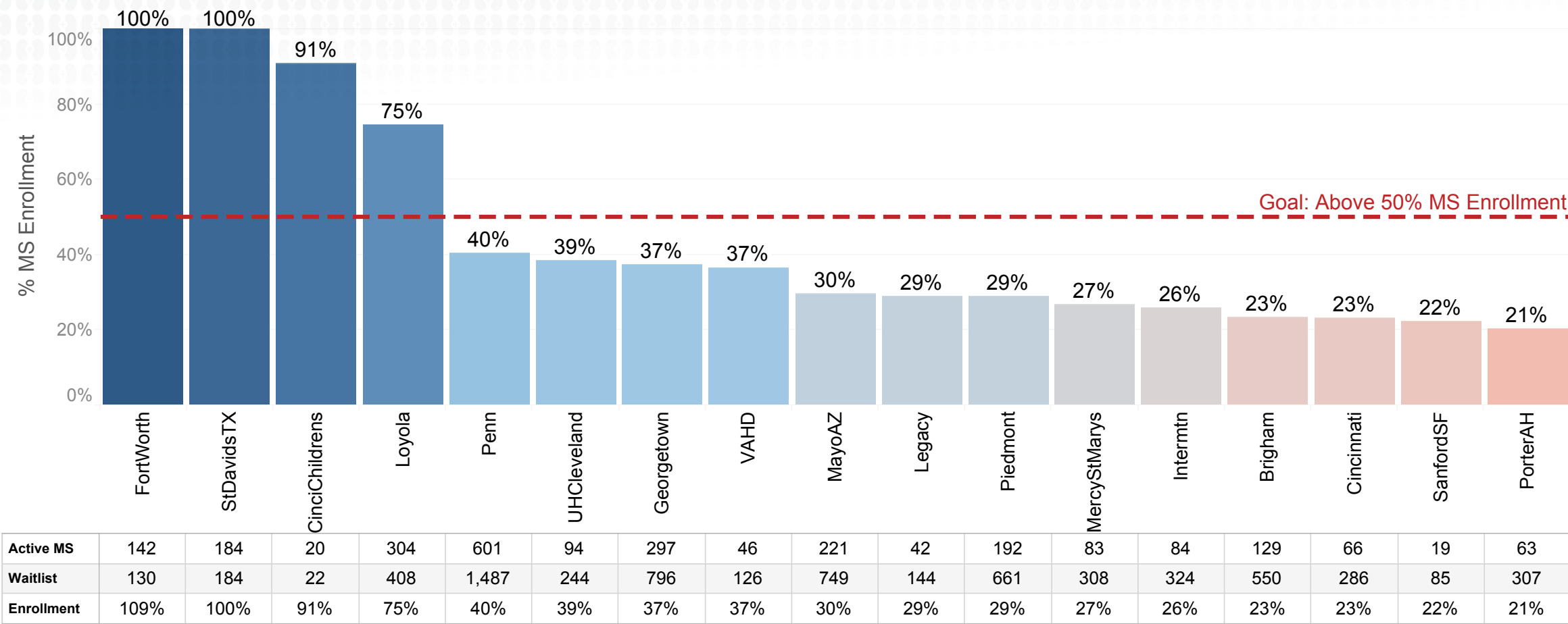


As of 10/1/2024
To see the latest microsite participating centers, [click here](#).



Microsites: Center Enrollment Success

Percent of Waitlist Patients with Microsites



NKR microsite living donor kidney transplant data compared to the latest OPTN waitlist data for 3/1/2024. Minimum 20% success rate.

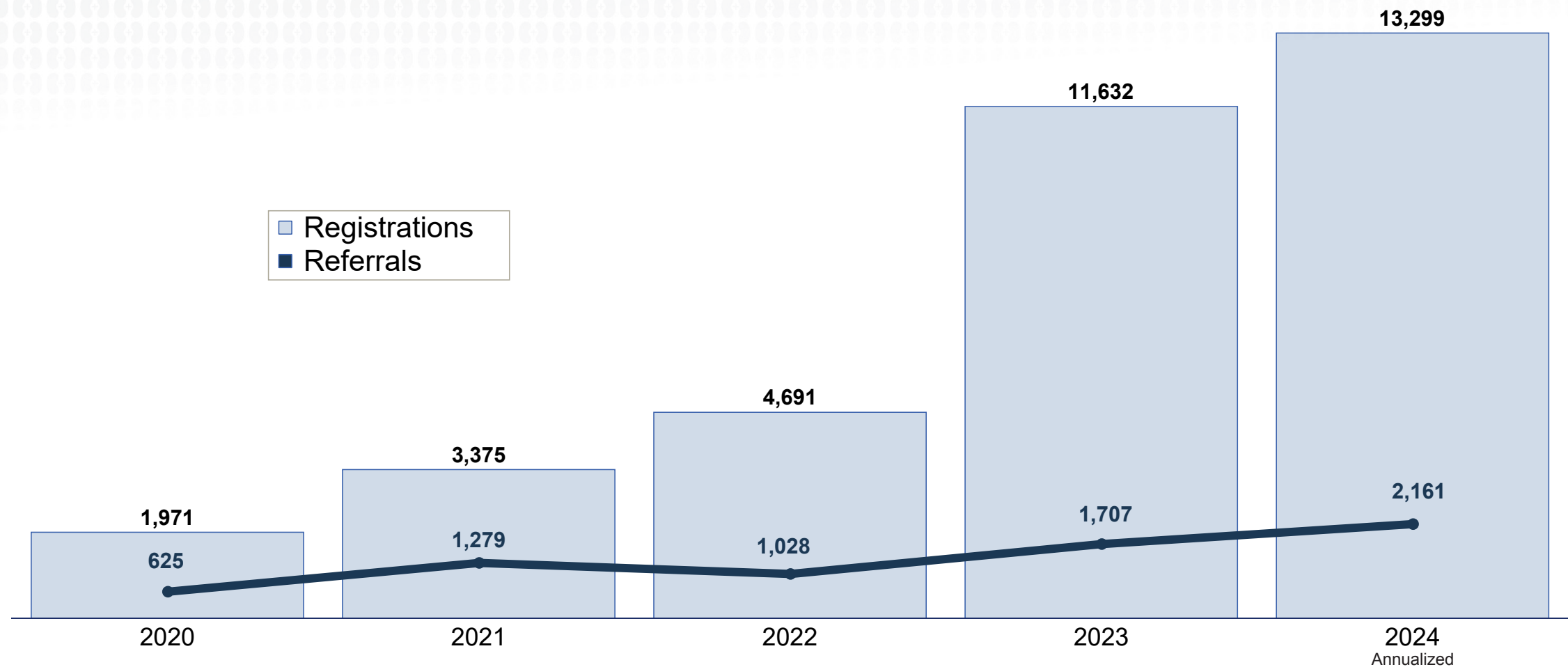
% MS Enrollment Formula: Active Microsites / Total Waitlist

As of 10/1/2024

Waitlist data provided courtesy of NYU Grossman School of Medicine, Department of Surgery



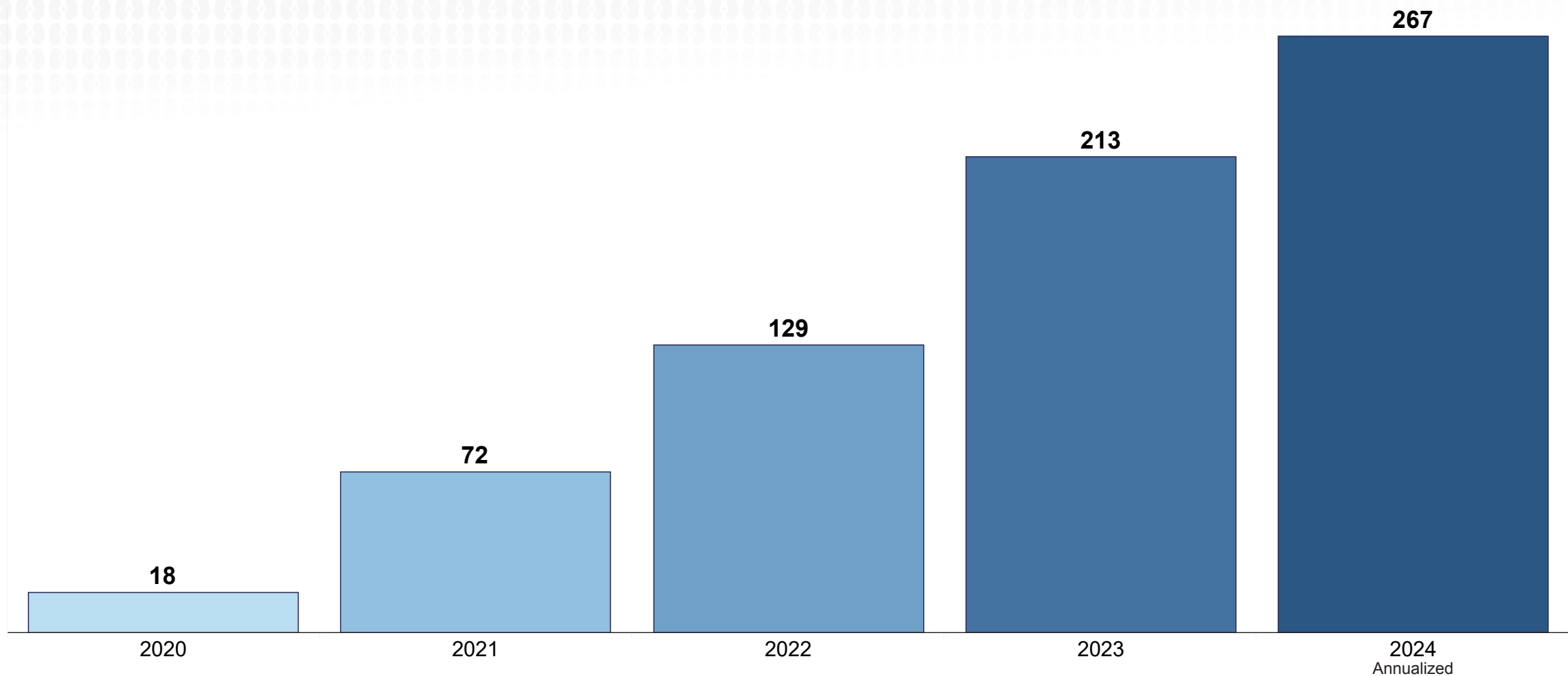
Microsites: Donor Registrations and Referrals



Kidney only
Registration: A donor candidate who completes the first form to start the registration process (Many 2024 registrants are still in the process).
Referral: A donor candidate who completed all stages of the registration process (Microsite donor registration process requires completion of pre-workup labs since October 2022).
As of 10/1/2024



Microsite Patients Who Received a Living Donor Transplant



*Kidney only. Noncumulative total for each year.
Total transplants are likely underrepresented due to transplant center reporting lag.
As of 10/1/2024*

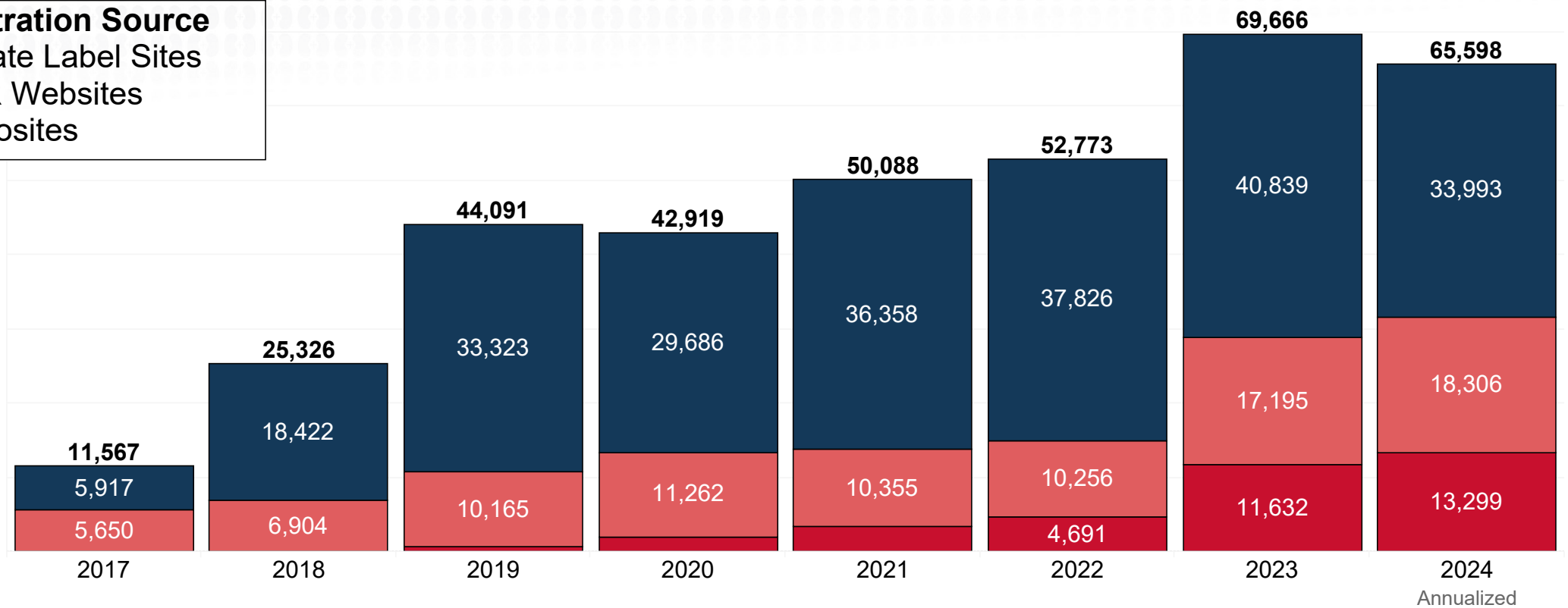


Living Kidney Donor Registrations

Across All DASH Intake Platforms

Registration Source

- Private Label Sites
- NKR Websites
- Microsites



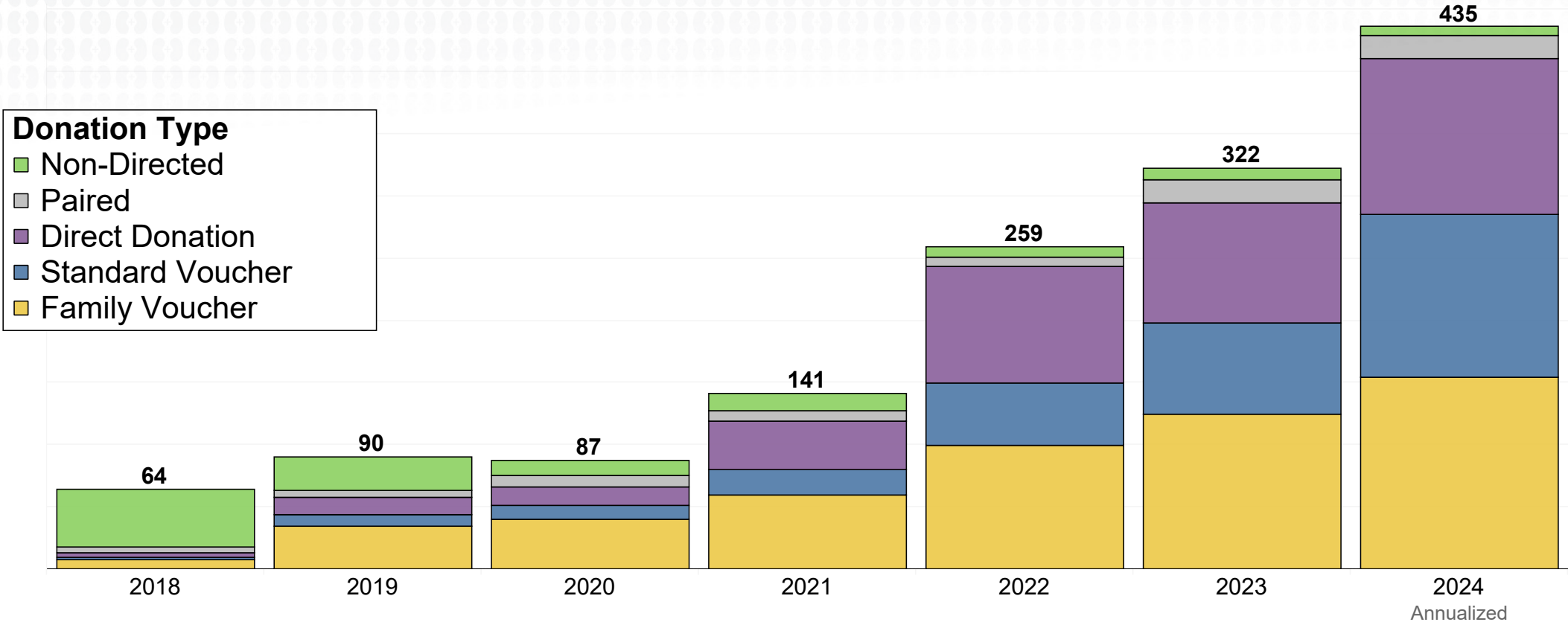
Private Label Sites	5,917	18,422	33,323	29,686	36,358	37,826	40,839	33,993
NKR Websites	5,650	6,904	10,165	11,262	10,355	10,256	17,195	18,306
Microsites			603	1,971	3,375	4,691	11,632	13,299

DASH: Donor Automated Screening & History
NKR websites include all pages with links to the NKR DASH platform (excluding NKR microsites).
As of 10/1/2024



NKR Living Kidney Donations

Resulting from NKR Donor Referrals



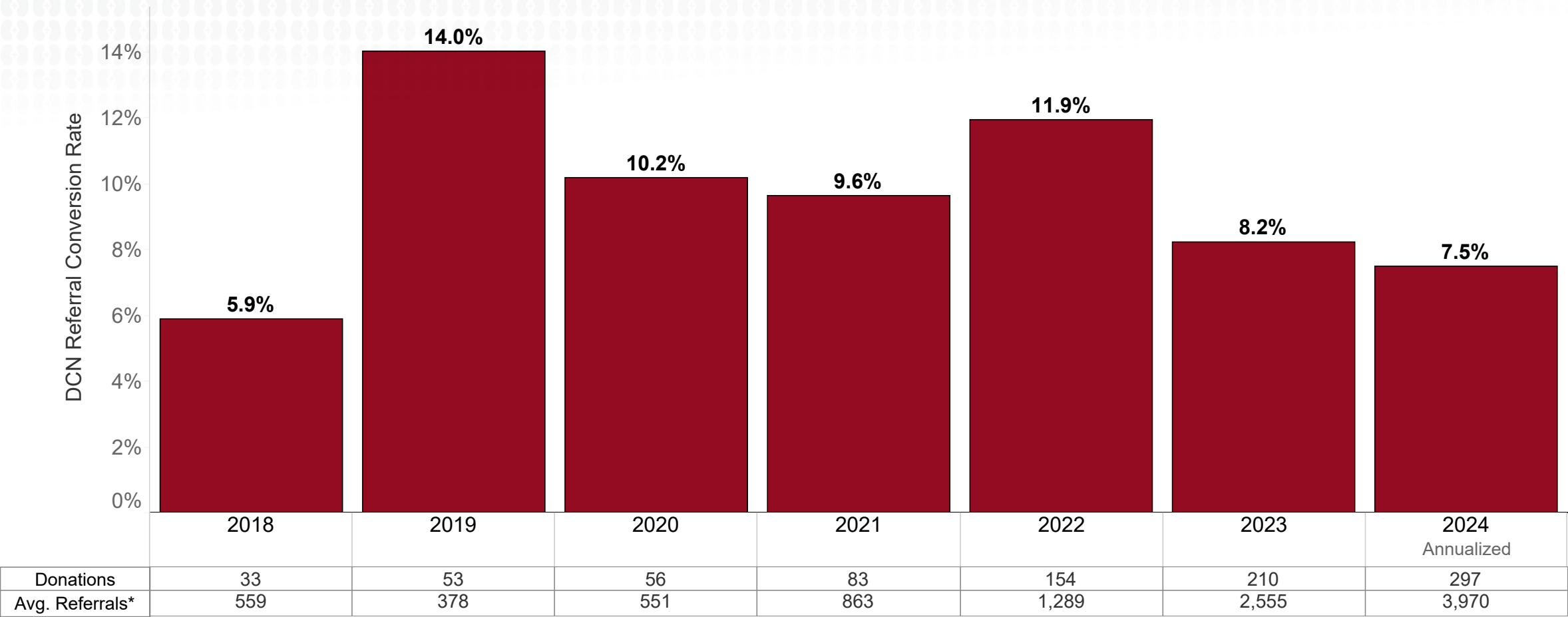
Non-Directed	46	27	12	14	8	9	7
Paired	5	5	9	8	8	19	19
Direct Donation	4	14	15	39	94	96	125
Standard Voucher	2	10	11	21	50	74	131
Family Voucher	7	34	40	59	99	124	154

As of 10/1/2024



NKR Donor Referral Conversion Rates

DCN Centers of Excellence



Donor Care Network (DCN) Centers of Excellence: An elite group of transplant centers offering the highest level care and support to living kidney donors.

Formula: 2024 Annualized Donations / Annualized Average Referrals

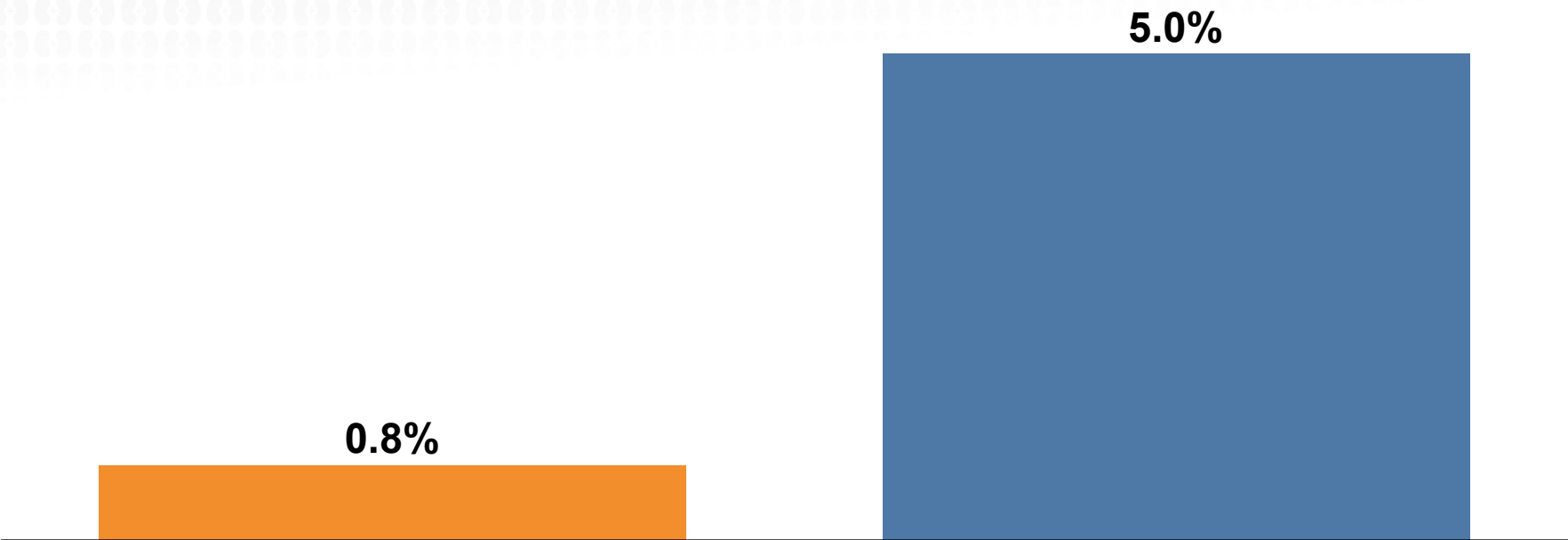
***Average Referrals:** (Annualized Current Year Referrals + Prior Year Referrals) / 2

As of 10/1/2024



Donor Mentors Facilitate Higher Conversion Rates

Candidates Assigned a Mentor Are Over 5x More Likely to Donate

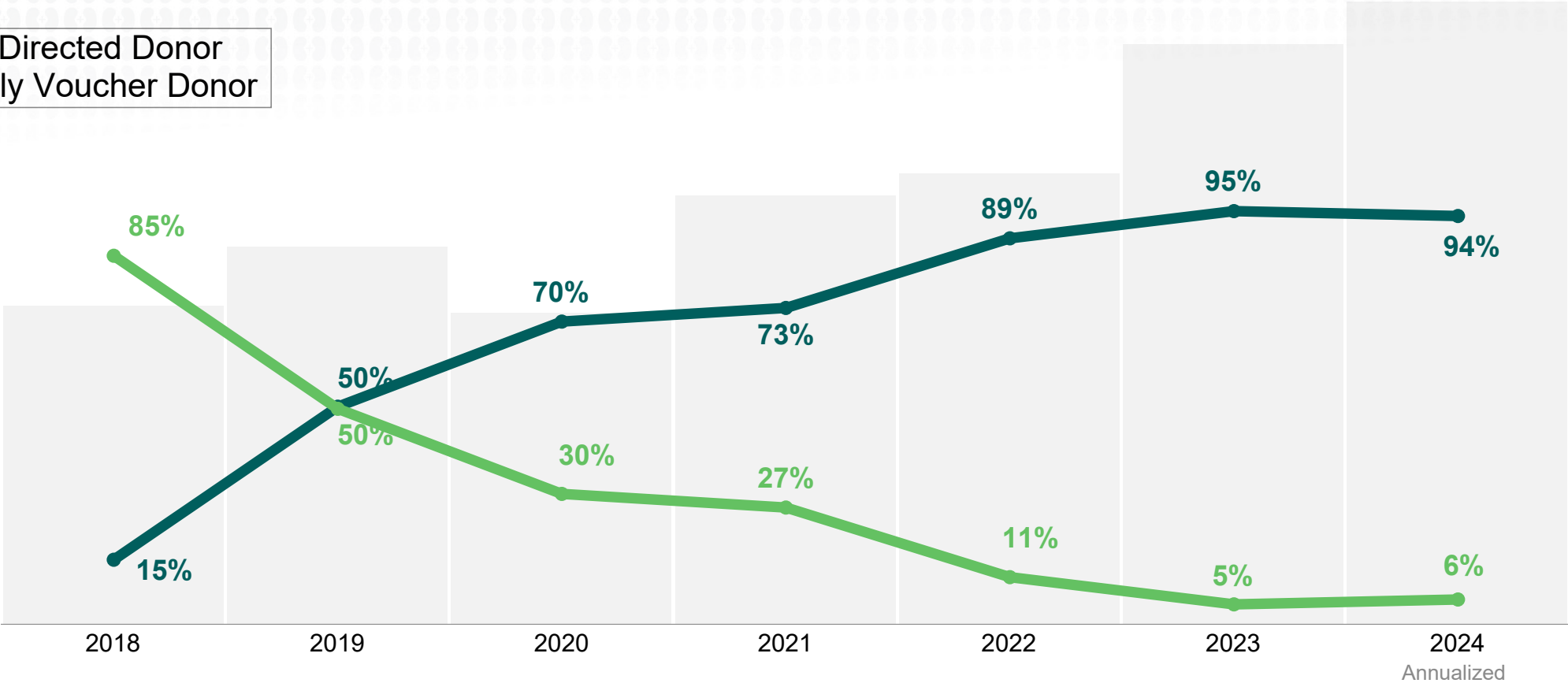
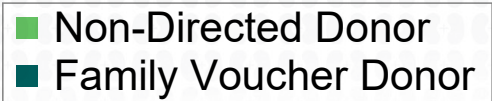


	Declined / Unassigned	Assigned to a Donor Mentor
2024 Donations (Annualized)	255	1,252
2023 Registrations	30,694	25,843
2024 Registrations (Annualized)	36,039	24,539
2024 Average Registrations	33,367	25,191
2024 Registration to Donation Conversion Rate	0.8%	5.0%

Data for all DASH living kidney donor registrants (NKR websites, microsites, and private label DASH) offered a mentor during registration.
As of 10/1/2024



Transition to Family Voucher Donation



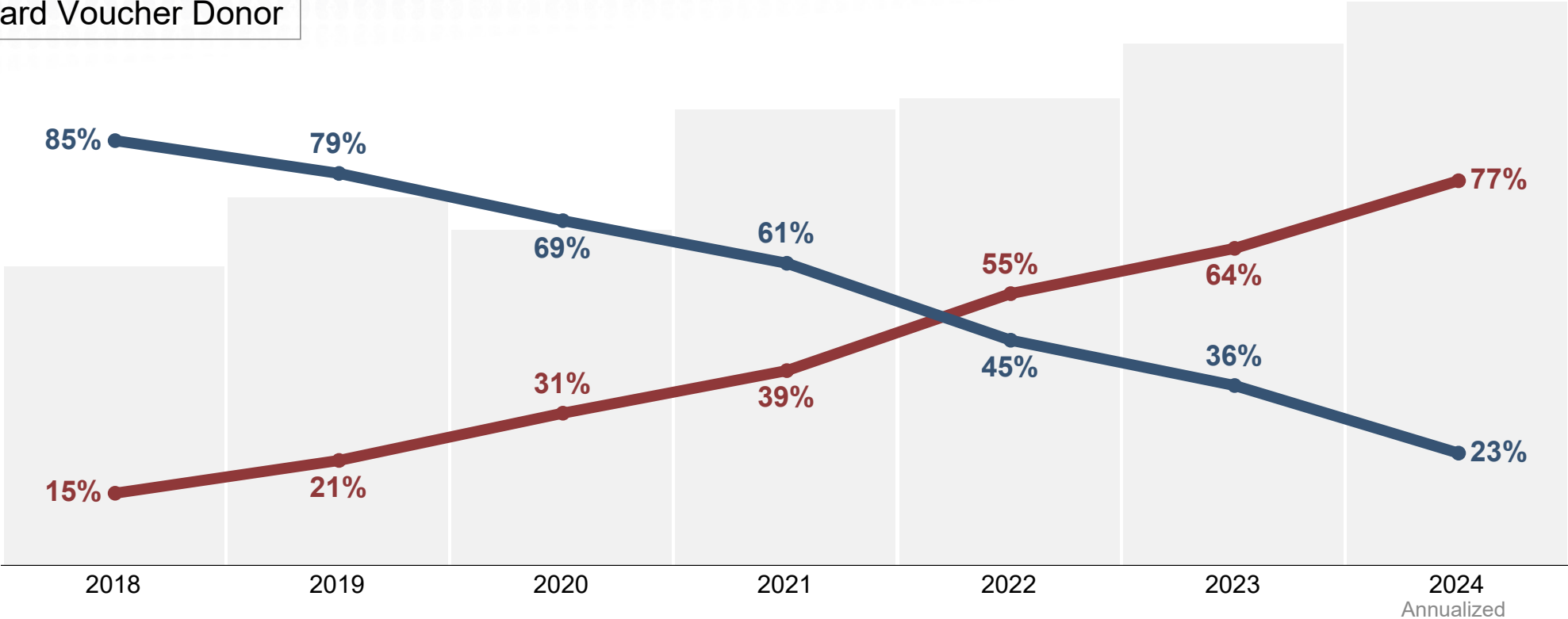
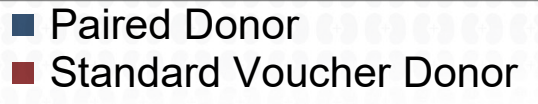
Non-Directed Donor	147	102	51	63	27	15	20
Family Voucher Donor	26	103	118	170	218	300	319
Total Donations	173	205	169	233	245	315	338

As of 10/1/2024



Decoupling Trend: Transition to Standard Voucher Donation

Incompatible Pairs



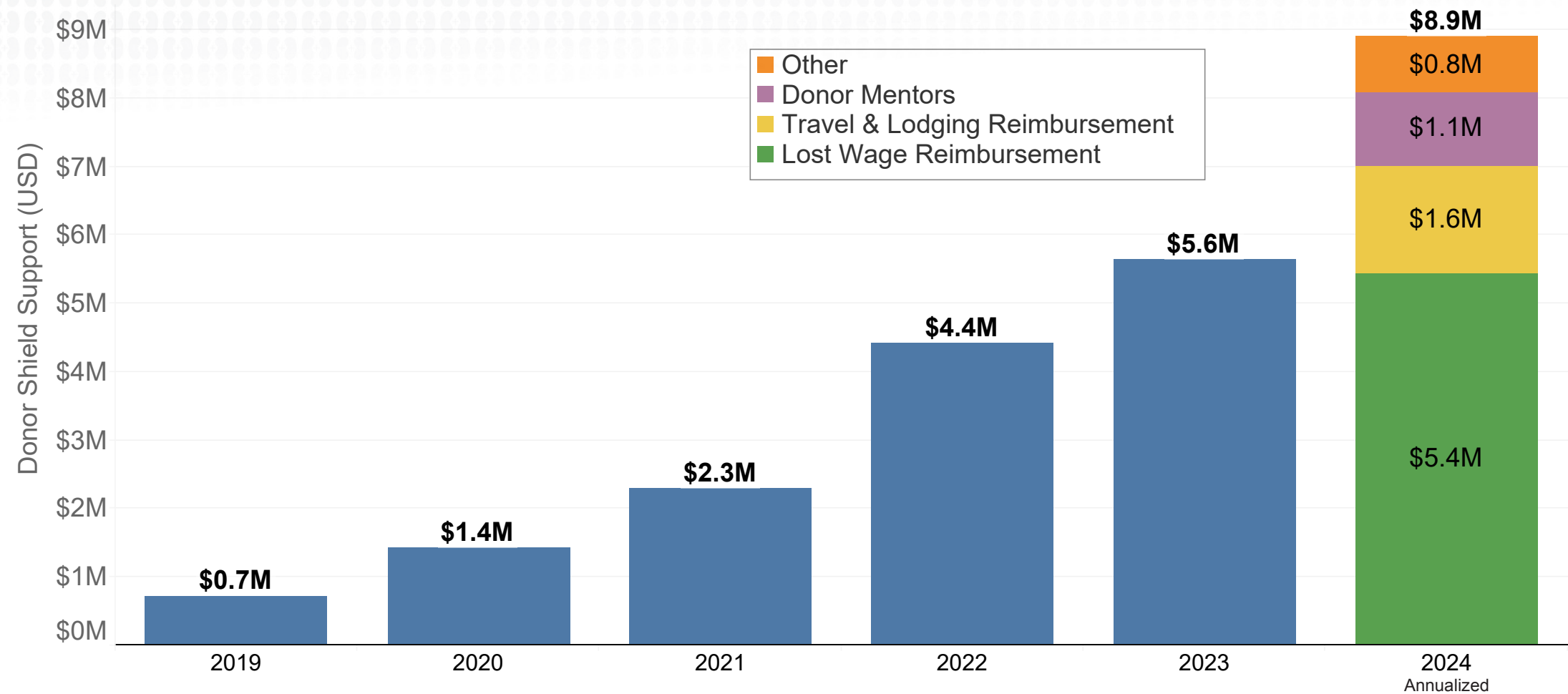
Standard Voucher Donor	57	101	133	231	329	428	561
Paired Donor	328	372	299	357	273	244	166
Total Donations	385	473	432	588	602	672	727

As of 10/1/2024



Donor Shield: Financial Support

Eliminating Disincentives to Living Donation

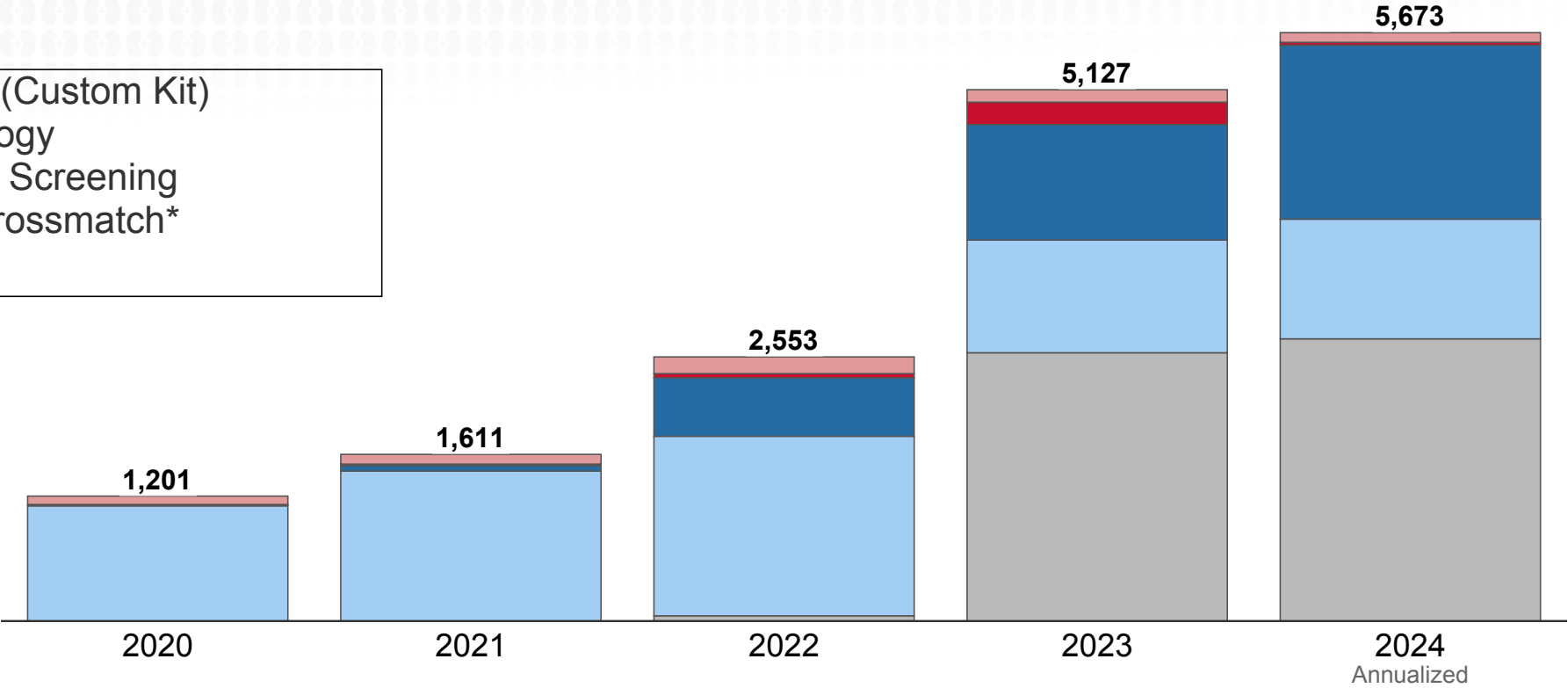
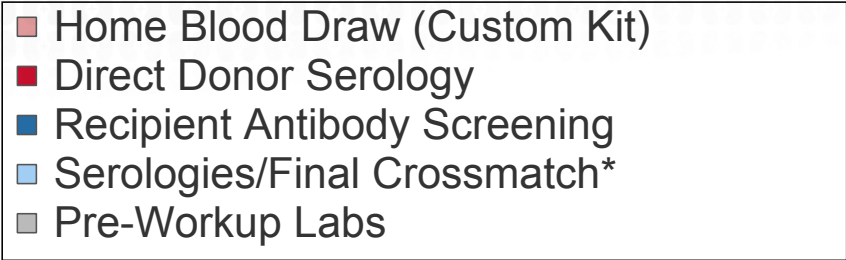


Other includes donor dependent care, donor complications and program operating costs.
As of 10/1/2024



Donor Shield: Home Blood Draw Requests

Eliminating Disincentives to Living Donation

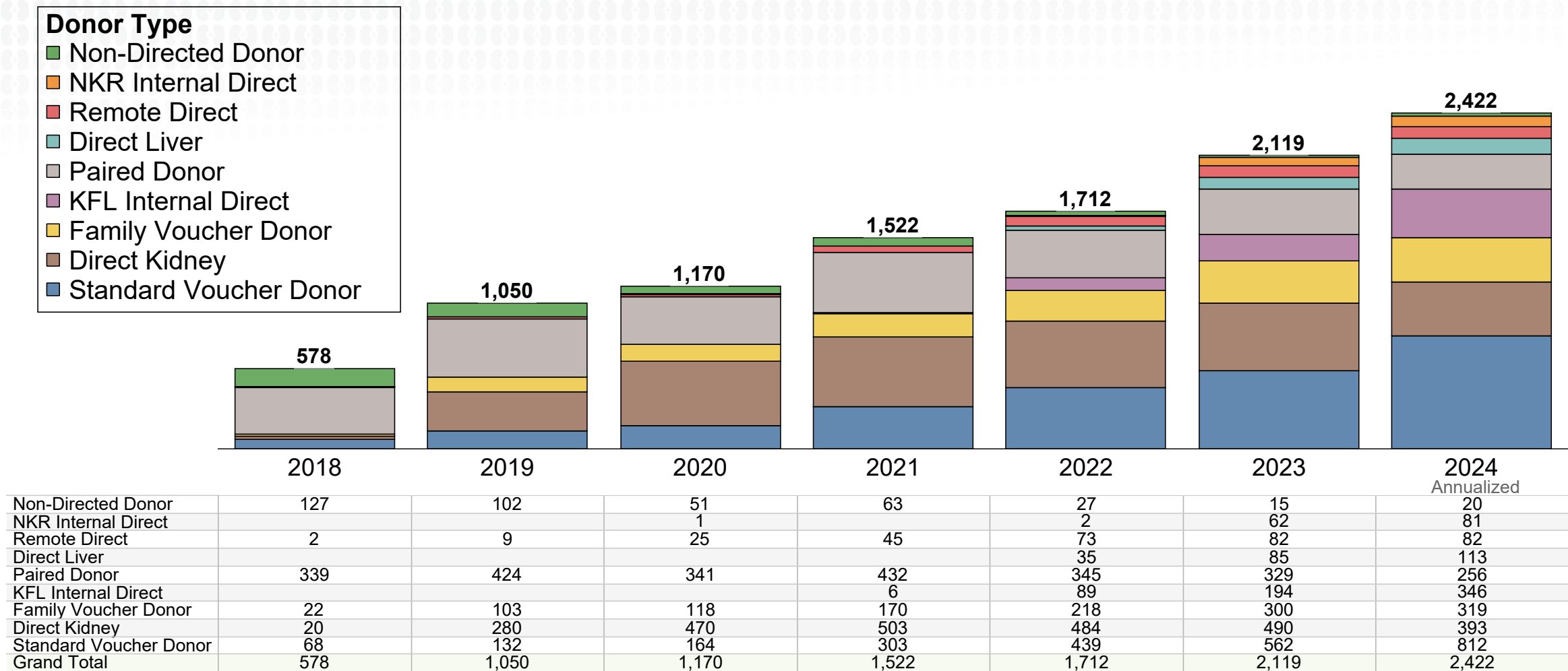


Home Blood Draw (Custom Kit)	79	92	162	118	93
Direct Donor Serology	2	17	37	218	24
Recipient Antibody Screening		51	569	1,110	1,679
Serologies/Final Crossmatch*	1,120	1,451	1,726	1,095	1,160
Pre-Workup Labs			59	2,586	2,717

*Cryo kits removed from this category as of March 2023
As of 10/1/2024



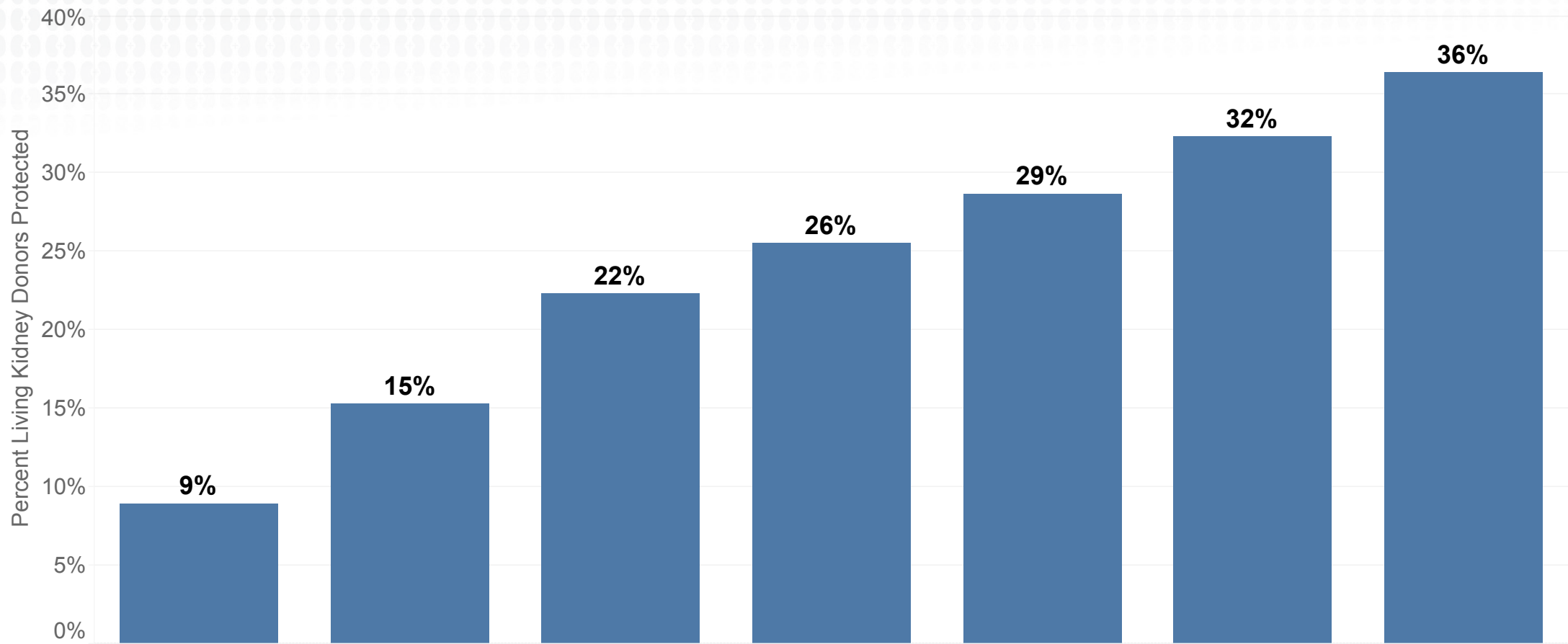
Donor Shield: Living Donors Supported and Protected



Donor Shield offered to liver donors starting 2022. Living donor prioritization excluded for Donor Shield direct kidney and liver cases. Donor Shield provides comprehensive protections for living kidney and liver donors. Find out more at <https://www.donor-shield.org/>. As of 10/1/2024



Donor Shield: Percent of U.S. Living Kidney Donors Protected



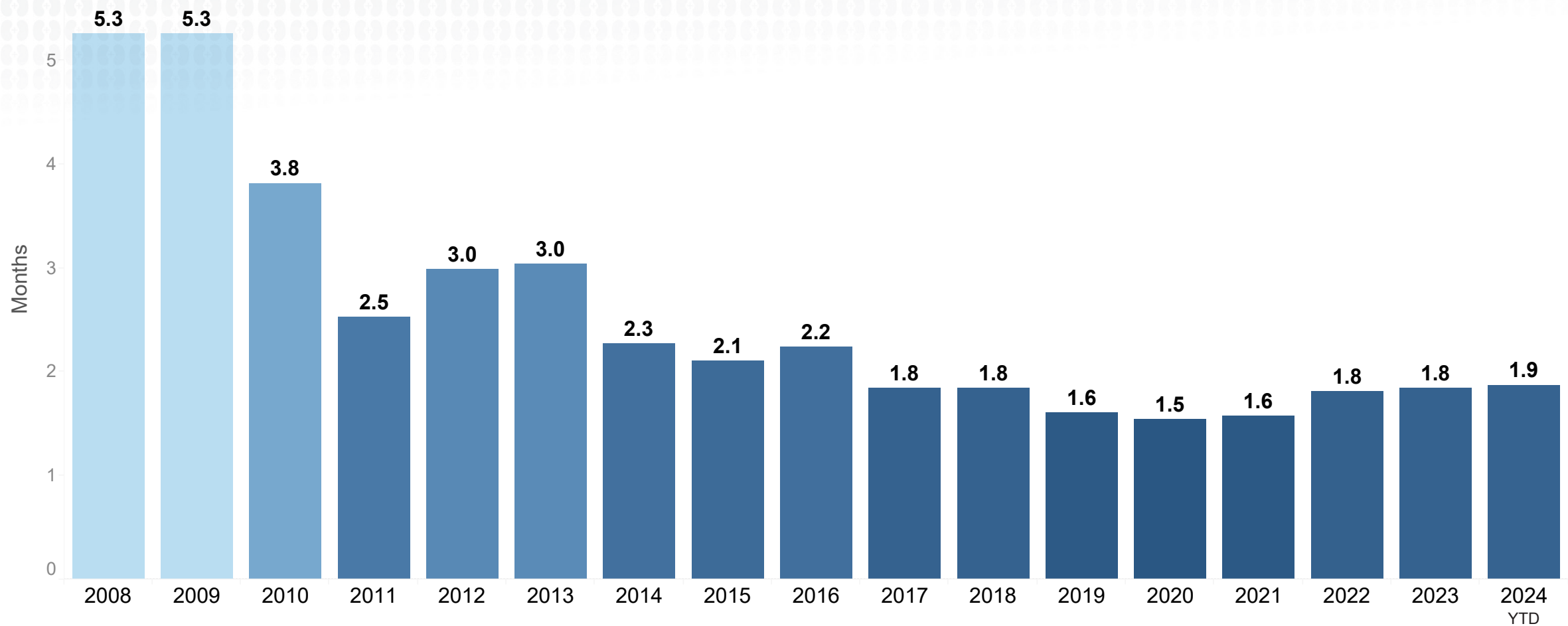
	2018	2019	2020	2021	2022	2023	2024
Donor Shield Kidney TXPs	578	1,050	1,170	1,522	1,677	2,034	2,309
All United States LD TXPs	6,442	6,863	5,238	5,961	5,847	6,288	6,350

As of 10/1/2024



KPD Wait Time: Median Time to Transplant

From Exportability to Transplant

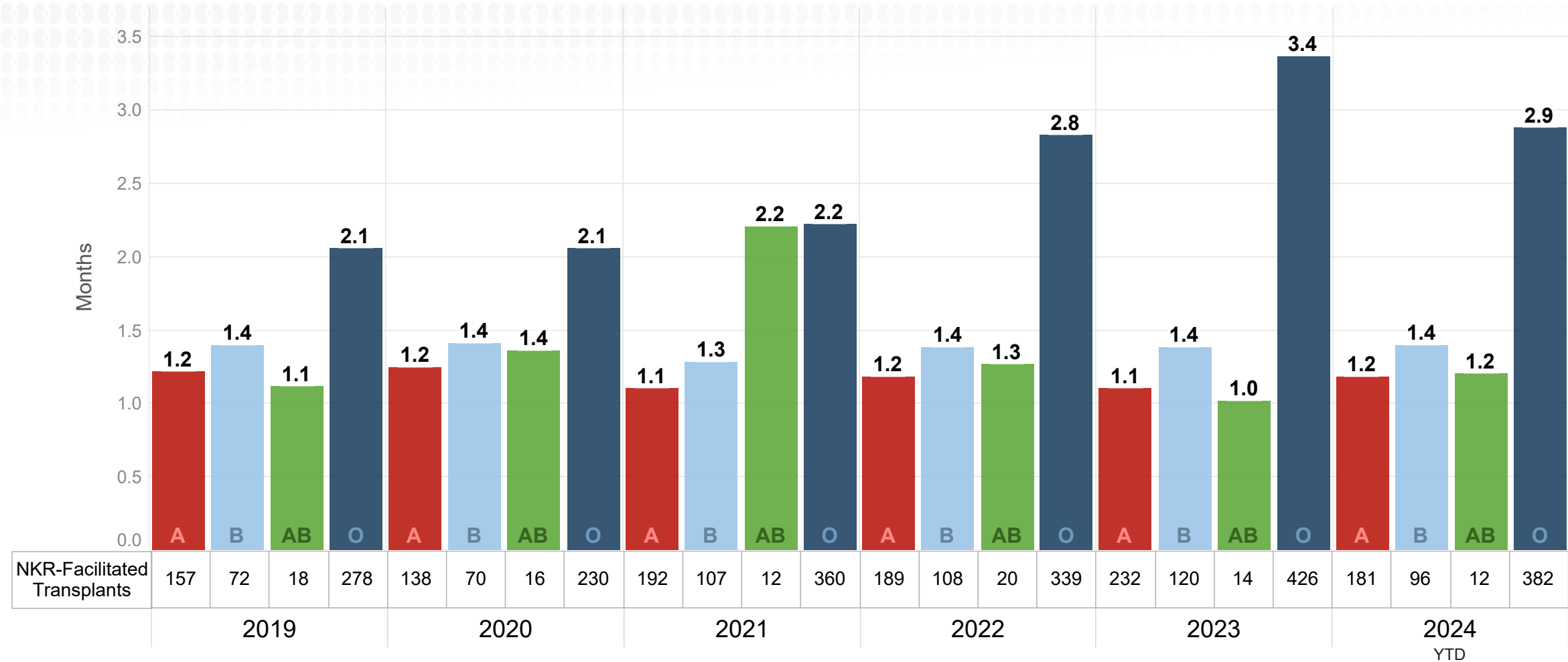


*Total wait time including paired and voucher. Excludes non-KPD and waitlist patient transplants.
Exportability refers to the exportable date in the KPD system. This is the date when the patient becomes ready to be matched with a living donor for transplant.
As of 10/1/2024*



KPD Wait Time: Median by Blood Type

From Exportability to Transplant

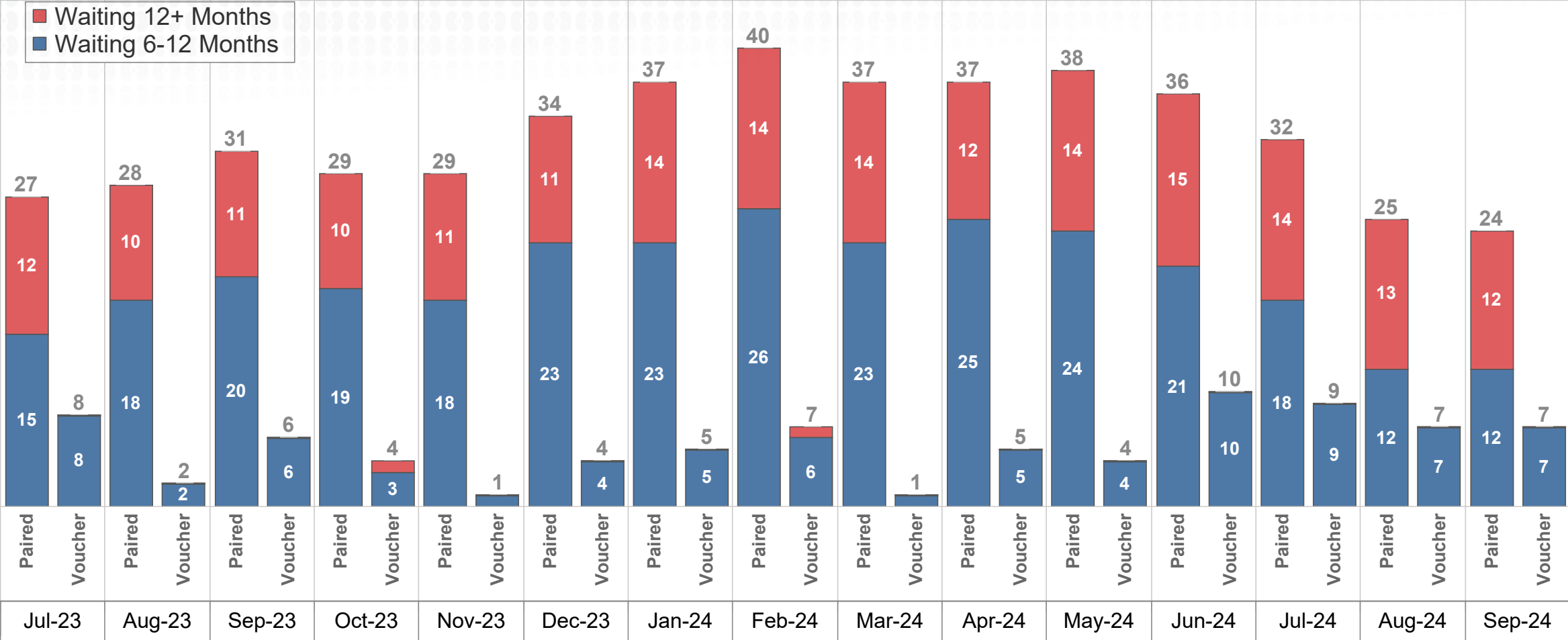


Total wait time including paired and voucher. Excludes non-KPD and waitlist patient transplants.
Exportability refers to the exportable date in the KPD system. This is the date when the patient becomes ready to be matched with a living donor for transplant.
As of 10/1/2024



KPD Wait Time: Matchable Patients

Fewer Voucher Patients Are Waiting Over 6 Months

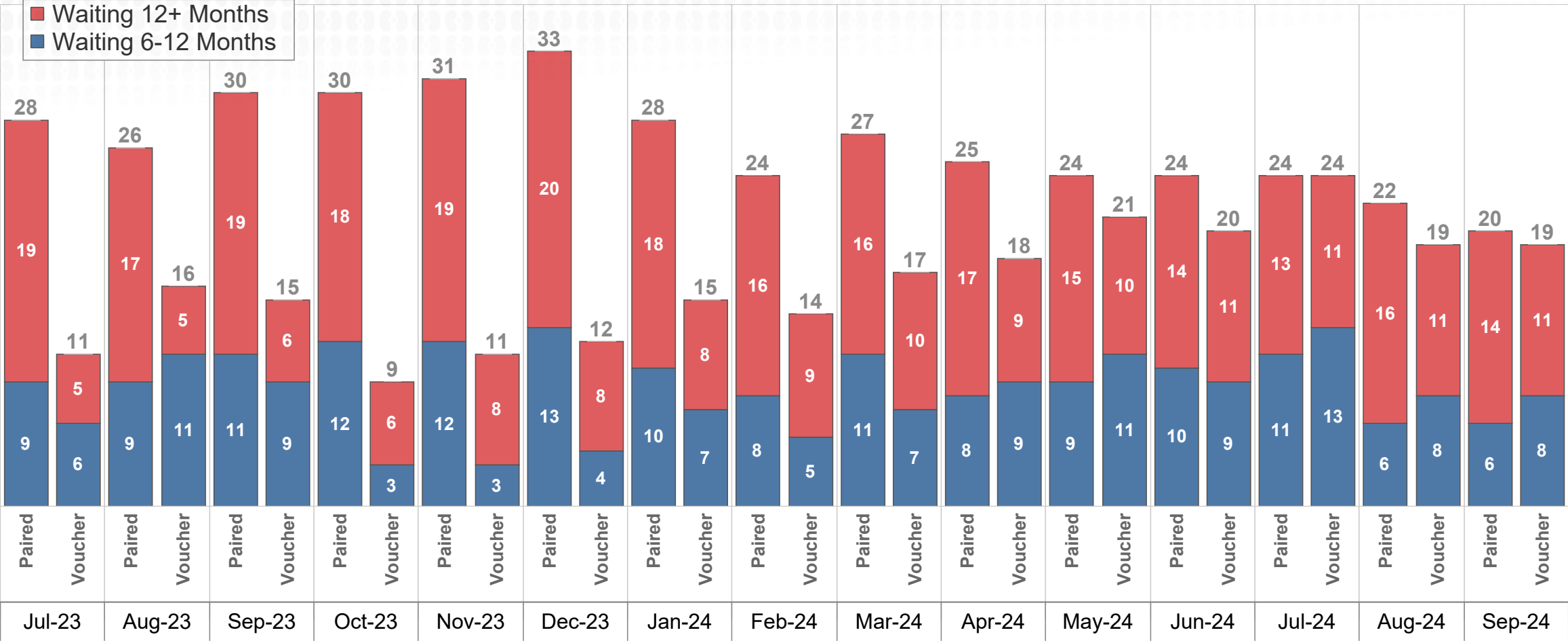


Excludes patients waiting less than 6 months. Snapshot of the last day of each month.
Matchable patients have at least one matchable donor in the donor pool at the time of snapshot.
As of 10/1/2024



KPD Wait Time: Unmatchable Patients

Fewer Voucher Patients Are Waiting Over 12 Months



Excludes patients waiting less than 6 months. Snapshot of the last day of each month.
Unmatchable patients have zero matchable donors in the donor pool at the time of snapshot.
As of 10/1/2024



KPD Wait Time: Dialysis Patients Waiting 12+ Months

Due to High cPRA

Paired Patients

#	Patient ID	Patient ABO	cPRA	Pair Wait Time (Months)
1	10569	A	100.00	39
2	14941	O	100.00	34
3	15582	O	100.00	29
4	16568	O	100.00	19
5	17091	A	100.00	16
6	18945	O	100.00	15
7	15057	A	100.00	14
8	18772	O	100.00	13
9	12411	A	99.99	48
10	12531	O	99.98	41
11	19140	A	99.98	14
12	18491	O	99.96	18
13	20196	O	99.94	12

Voucher Patients

#	Patient ID	Patient ABO	cPRA	Voucher Wait Time (Months)
1	13055	O	100.00	45
2	10448	O	100.00	45
3	11047	A	100.00	42
4	13023	A	100.00	30
5	16866	O	100.00	24
6	13065	AB	100.00	15
7	19445	B	100.00	13
8	10069	A	99.99	59
9	17677	B	99.97	20
10	12707	O	99.76	23
11	17499	O	99.74	19

*Includes all patients on dialysis and exportable in the NKR pool with a cPRA >99.00
As of 10/1/2024*



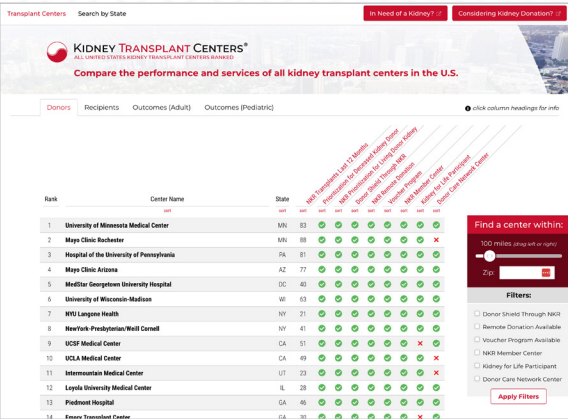
Resources



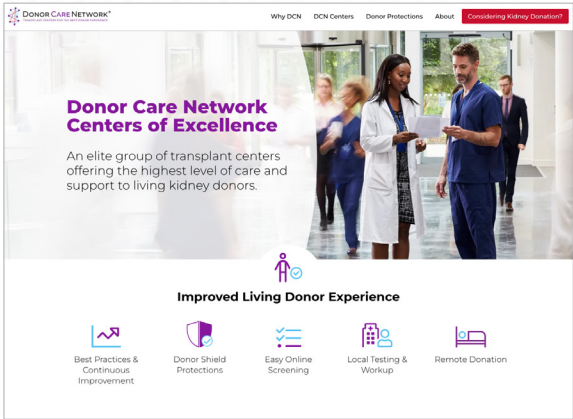
kidneyregistry.com



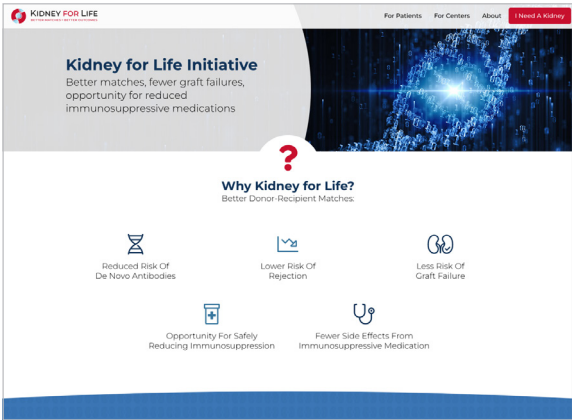
donor-shield.org



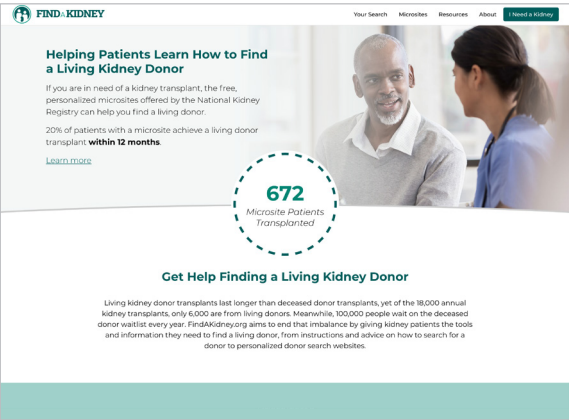
kidneytransplantcenters.org



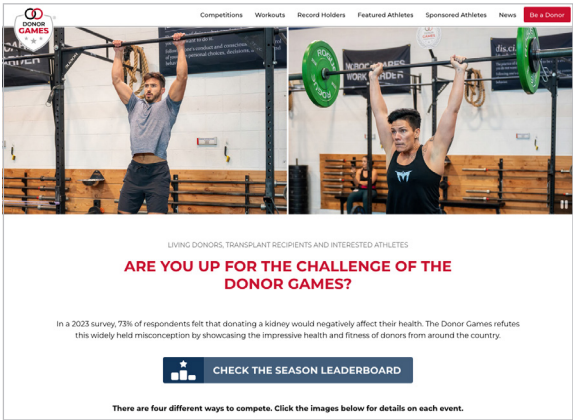
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