

SCIENTIFIC Stanford Health Care

REGISTRY OFCenter Code: CASUTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: July 9, 2024RECIPIENTSBased on Data Available: April 30, 2024

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#### **COVID-19 Guide**

Adjustments to Transplant Program and OPO Evaluation Metrics

The Scientific Registry of Transplant Recipients (SRTR), under contract from the Health Resources and Services Administration (HRSA), is charged with evaluating the performance of the nation's transplant system through publication of semi-annual transplant program-specific reports (PSRs) and organ procurement organization (OPO)-specific reports (OSRs). These reports contain performance metrics covering various time periods. For OPOs, these metrics include eligible death conversion rates and deceased donor organ yield. For transplant programs, they include pre-transplant mortality rates (formerly called waitlist mortality rates), transplant rates, organ offer acceptance rates, patient mortality after listing, and 1-month, 90-day, 1-year, 1-year conditional on 90-day, and 3-year posttransplant outcomes including graft survival and patient survival.

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021, July 2021, January 2022, July 2022, January 2023, July 2023 and January 2024. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the July 2024 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the July 2024 reporting cycle. These changes will remain in force beyond the July 2024 reporting cycle, unless otherwise amended:

Posttransplant Outcomes (including 1-month, 90-day, 1-year, 1-year conditional on 90-day, and 3-year graft and patient survival): Evaluation cohorts will exclude transplants performed between March 13, 2020 and June 12, 2020, inclusive of March 13 and June 12. Patients given transplants before March 13, 2020 will have follow-up censored on March 12, 2020. Patients given transplants after June 12, 2020 will resume normal follow-up. Follow-up will not resume for patients given transplants before March 13, 2020 who are alive with function on June 12, 2020; however, this may be reconsidered as SRTR continues to explore moving to a period-prevalent methodology:

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 1/1/2021-6/30/2023, follow-up through 12/31/2023.

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2018-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2020; follow-up through 12/31/2023.

Pre-Transplant Mortality Rate (formerly called Waitlist Mortality Rate): These evaluations are based on normal reporting cohorts.

Days after listing (and before transplant) between 1/1/2022 and 12/31/2023.

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Transplant Rate: These evaluations are based on normal reporting cohorts.

Candidates on the waitlist 1/1/2022-12/31/2023.

Overall Rate of Mortality After Listing: These evaluations are based on normal reporting cohorts.

Evaluation period: 1/1/2022-12/31/2023.

Offer Acceptance Rate: These evaluations are based on normal reporting cohorts.

Offers received 1/1/2023-12/31/2023.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 9, 2024. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for January 2025.

As with the January 2024 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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### User Guide

This report contains a wide range of useful information about the kidney transplant program at Stanford Health Care. The report has three main sections:

- A. Program Summary
- B. Waiting List Information
- C. Transplant Information

The Program Summary is a one-page summary highlighting characteristics of the program, including the number of candidates on the waiting list, the number of transplants performed at the program, the number of patients being cared for by the program, and patient outcomes, including outcomes while on the waiting list (the transplant rate and the death rate while on the waiting list) and outcomes after transplant (patient and graft survival probabilities). If the program performed transplants in both adults and children, survival probabilities for adults and children (pediatrics) are provided separately. For each of the outcomes measures presented, a comparison is provided showing what would be expected at this program if it were performing as similar programs around the country perform when treating similar patients. More details regarding these outcome measures are provided in Sections B and C of the report.

The Waiting List Information section contains more detailed information on how many candidates are on the waiting list at the program, the types of candidates on the waiting list, how long candidates typically have to wait for a transplant at this program, how frequently candidates successfully receive a transplant, and how often candidates on the waiting list die before receiving a transplant.

Table B1 shows the activity on this program's waiting list during two recent 1-year periods and provides comparisons to all programs within this program's OPTN region (see http://optn.transplant.hrsa.gov/members/regions.asp for information on OPTN regions) and the nation as a whole. Tables B2 and B3 describe the candidates on the waiting list at this program, with comparisons to candidates waiting in the same donor service area (OPO/DSA) the OPTN region, and the nation as a whole.

Table B4 shows how many candidates were removed from the waiting list because they received a transplant. The program's transplant rate is calculated as the number of candidates who received a transplant divided by the person-years observed at the program (person-years is a combination of how many candidates were on the waiting list along with how long each candidate was followed since some candidates are not on the waiting list for the entire year). The transplant rate and comparisons to what would be expected at this program are presented in Figures B1 and B2. Figure B1 shows the transplant rate compared to what was expected at this program. The expected transplant rate is an estimate of what we would expect at this program if it were performing transplants at rates similar to other programs in the US with similar candidates on their waiting lists. The expected rate is only an estimate, and is made with a certain level of uncertainty. This uncertainty is shown in Figure B2. Figure B2 displays the ratio of the observed to the expected transplant rate. A ratio of 1 indicates that the observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 10.2 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

The pre-transplant mortality rate (previously called the waiting list mortality rate) for candidates on the waiting list is presented in Table B5 and Figures B4-B6. These data are presented in the same way as the transplant rate data in the previous section. The intent of this table and figures is to describe risk of death once candidates are listed rather than while they are listed, but before they are transplanted. Therefore, time at risk and deaths after removal from the waiting list for reasons other than transplant, transfer to another transplant program, or recovery (no longer needing a transplant), and before any subsequent transplant, are included. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B5. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

Survival from listing is presented in Table B6 and Figures B7-B9. These data are presented in the same way as the pre-transplant mortality rate data in the previous section. The intent of this table and figures is to describe risk of death once candidates are listed rather than while they are listed, including after a transplant. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B8. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2018 and 06/30/2023. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 6.1 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2023 to calculate a particular percentile of transplant times.

Table B11 contains a summary of the offer acceptance practices of the program. The offer acceptance ratio indicates whether the program is more or less likely to accept offers than the average program. If the offer acceptance ratio is greater than 1.0, then the program tends to accept more offers than average; if the offer acceptance ratio is less than 1.0, then the program tends to accept fewer offers than average. Figure B10 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B11 - B14 similarly show offer acceptance rates for subsets

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of offers.

The Transplant Information section begins with descriptions of transplant recipients in Tables C1 and C2. Data on recipients of deceased donor transplants are presented (Tables C1D and C2D); if applicable, data on recipients of living donor transplants are presented separately (Tables C1L and C2L). Comparisons to the region and the nation as a whole are provided. A description of the deceased donors used at this program is provided in Table C3D, along with characteristics of living donors in Table C3L, if applicable. Finally, information on the transplant procedure for deceased and living donor transplants is presented in Tables C4D and C4L, respectively.

Starting with Table C5, transplant outcomes are presented along with comparisons to what would be expected at this program and what happened in the nation as a whole. Tables C5-C14 (tables C5-C10 for Pancreas) present information on graft survival (survival of the transplanted organ), with data presented separately for adult and pediatric recipients. Patients are followed from the time of transplant until either failure of the transplanted organ or death, whichever comes first. Please refer to the technical methods for more information on these calculations (http://www.srtr.org).

While Tables C5-C14 present data on graft survival, Tables C15-C20 (tables C11-C20 for Pancreas) present information on patient survival. For these tables, patients are followed from the time of transplant until death, regardless of whether the transplant is functioning or the patient required another transplant to survive.

Tables C21 and C22 summarize the multiorgan transplant outcomes at this program. The summary statistics in these tables are descriptive and are not risk-adjusted for different donor and candidate characteristics.

Table D1 shows the rates of follow-up for living donors.

Additional information regarding the technical methods and the risk adjustment models used to estimate expected event rates is available on the SRTR website at http://www.srtr.org. We welcome and encourage feedback on these reports. Please feel free to share feedback with the SRTR at the following e-mail: srtr@srtr.org.



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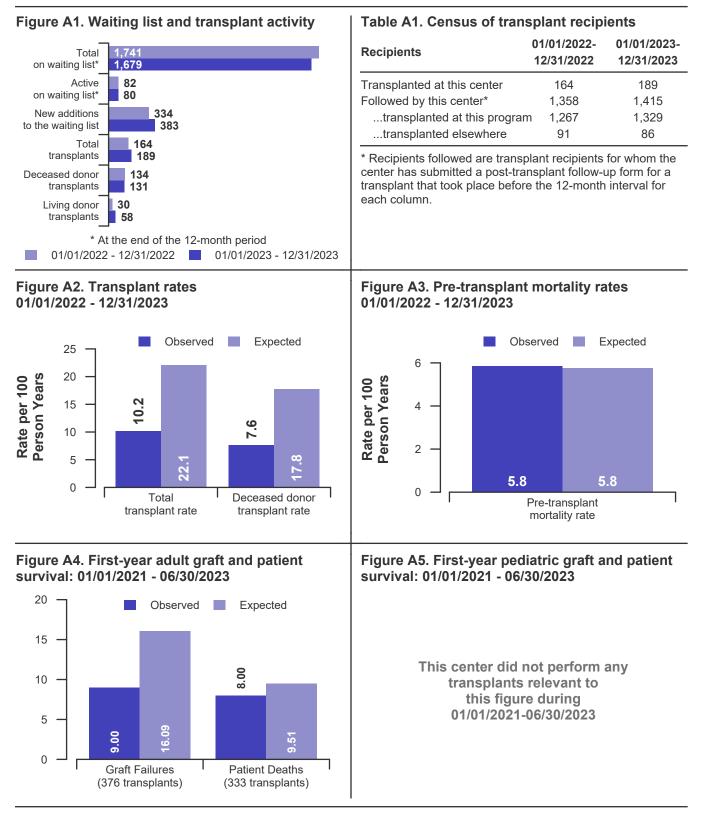
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### A. Program Summary





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#### **B. Waiting List Information**

#### Table B1. Waiting list activity summary: 01/01/2022 - 12/31/2023

		ts for enter	Activity for as percent of		
Waiting List Registrations	01/01/2022- 12/31/2022	01/01/2023- 12/31/2023	This Center (%)	OPTN Region (%)	U.S. (%)
On waiting list at start Additions	1,790	1,741	100.0	100.0	100.0
New listings at this center	334	383	22.0	36.4	49.0
Removals					
Transferred to another center	4	7	0.4	0.9	1.3
Received living donor transplant*	30	58	3.3	4.6	6.5
Received deceased donor transplant*	134	131	7.5	16.2	22.1
Died	99	100	5.7	4.7	4.1
Transplanted at another center	45	53	3.0	2.9	4.8
Deteriorated	15	27	1.6	3.1	5.0
Recovered	0	1	0.1	0.2	0.3
Other reasons	56	68	3.9	3.8	5.3
On waiting list at end of period	1,741	1,679	96.4	99.9	99.6

\* These patients were removed from waiting list with removal code indicating transplant; this may not equal the number of transplants performed at this center during the specified period.



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#### **B. Waiting List Information**

## Table B2. Demographic characteristics of waiting list candidatesCandidates registered on the waiting list between 01/01/2023 and 12/31/2023

Demographic Characteristic		ting List Regi 023 to 12/31/2			ing List Regis n 12/31/2023 ('	
	This Center (N=383)	OPTN Region (N=7,638)	U.S. (N=46,578)	This Center (N=1,679)	OPTN Region (N=20,970)	U.S. (N=94,709)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	17.0	26.3	39.5	14.7	21.3	35.6
African-American	7.0	10.2	30.6	6.9	10.1	30.7
Hispanic/Latino	47.5	41.9	19.9	46.2	44.4	21.8
Asian	24.5	17.9	7.8	28.0	20.9	9.9
Other	3.9	3.3	1.9	4.2	3.2	1.9
Unknown	0.0	0.5	0.3	0.0	0.2	0.1
Age (%)						
<2 years	0.0	0.2	0.2	0.0	0.1	0.1
2-11 years	0.0	0.8	0.9	0.0	0.8	0.7
12-17 years	0.0	1.7	1.4	0.0	1.7	1.2
18-34 years	16.7	11.0	10.0	13.9	10.5	9.5
35-49 years	21.7	24.0	23.6	27.9	27.2	25.7
50-64 years	44.9	41.2	41.2	45.6	44.1	43.8
65-69 years	13.8	13.1	13.5	10.2	11.3	12.4
70+ years	2.9	8.0	9.2	2.3	4.3	6.6
Gender (%)						
Male	61.4	63.6	61.9	62.4	63.0	62.4
Female	38.6	36.4	38.1	37.6	37.0	37.6

\* Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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#### **B. Waiting List Information**

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## Table B3. Medical characteristics of waiting list candidatesCandidates registered on the waiting list between 01/01/2023 and 12/31/2023

Medical Characteristic		iting List Regi 023 to 12/31/2		All Waiting List Registrations on 12/31/2023 (%)			
	This Center (N=383)	OPTN Region (N=7,638)	U.S. (N=46,578)	This Center (N=1,679)	OPTN Region (N=20,970)	U.S. (N=94,709)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	50.9	51.6	49.6	55.9	56.4	54.7	
A	27.2	30.3	31.6	25.4	26.6	26.8	
В	17.0	14.3	15.1	15.2	14.5	16.1	
AB	5.0	3.7	3.7	3.5	2.4	2.4	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	13.1	10.7	12.4	9.4	10.0	13.3	
No	86.9	89.3	87.6	90.6	90.0	86.7	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Initial CPRA (%)							
0-9%	10.7	8.8	10.2	50.2	60.6	54.1	
10-79%	14.1	12.0	15.7	28.1	12.8	14.5	
80+%	3.9	6.3	7.6	6.4	5.8	7.0	
Unknown	71.3	72.9	66.6	15.3	20.8	24.3	
Primary Disease (%)*							
Glomerular Diseases	11.2	18.7	18.0	13.3	18.0	17.8	
Tubular and Interstitial Diseases	0.3	3.0	3.6	2.0	3.1	3.7	
Polycystic Kidneys	2.6	5.6	6.5	4.2	5.6	6.7	
Congenital, Familial, Metabolic	0.3	1.9	2.0	1.1	2.0	2.0	
Diabetes	25.6	35.7	35.4	40.0	41.0	37.3	
Renovascular & Vascular Disease	s 0.0	0.1	0.1	0.1	0.1	0.1	
Neoplasms	0.0	0.3	0.4	0.2	0.3	0.4	
Hypertensive Nephrosclerosis	4.7	15.4	20.0	4.5	15.0	20.4	
Other	55.4	19.0	13.6	34.0	14.7	11.4	
Missing*	0.0	0.3	0.3	0.5	0.4	0.3	

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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#### **B. Waiting List Information**

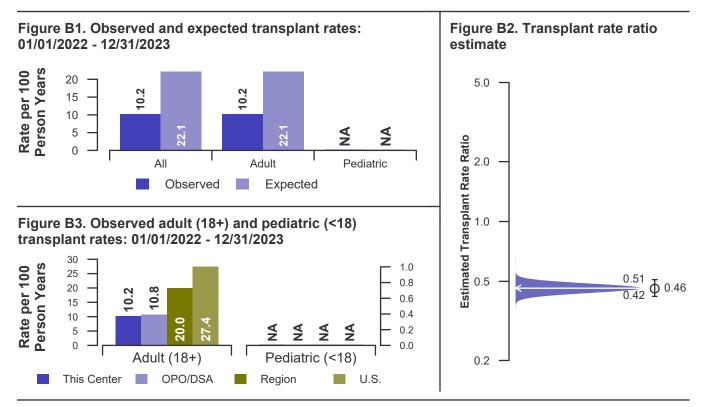
RECIPIENTS

#### Table B4. Transplant rates: 01/01/2022 - 12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,785	8,005	20,913	95,588
Person Years**	3,468.4	15,146.2	41,855.8	189,465.4
Removals for Transplant	353	1,669	8,446	52,604
Adult (18+) Candidates				
Count on waiting list at start*	1,785	7,779	20,457	93,893
Person Years**	3,468.4	14,672.2	40,865.1	185,947.8
Removals for transpant	353	1,582	8,155	50,868
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

\* Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

\*\* Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





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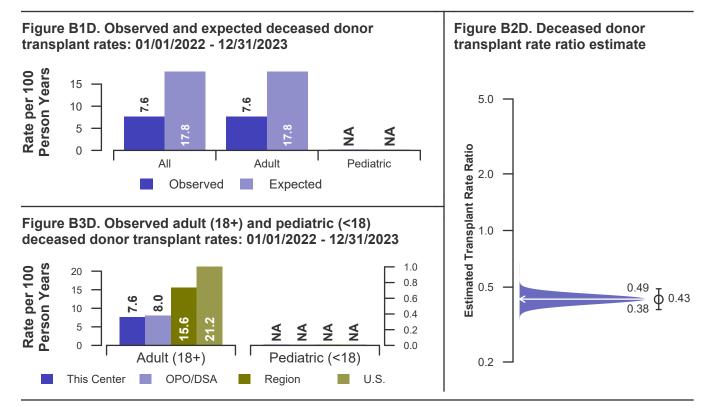
#### **B. Waiting List Information**

Table B/D	Deceased dono	r transplant rates:	01/01/2022	12/21/2022
I able D4D.	Deceased donor	i i anspiani i ales.	. 01/01/2022 -	12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,785	8,005	20,913	95,588
Person Years**	3,468.4	15,146.2	41,855.8	189,465.4
Removals for Transplant	265	1,234	6,585	40,590
Adult (18+) Candidates				
Count on waiting list at start*	1,785	7,779	20,457	93,893
Person Years**	3,468.4	14,672.2	40,865.1	185,947.8
Removals for transpant	265	1,168	6,358	39,351
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

\* Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

\*\* Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





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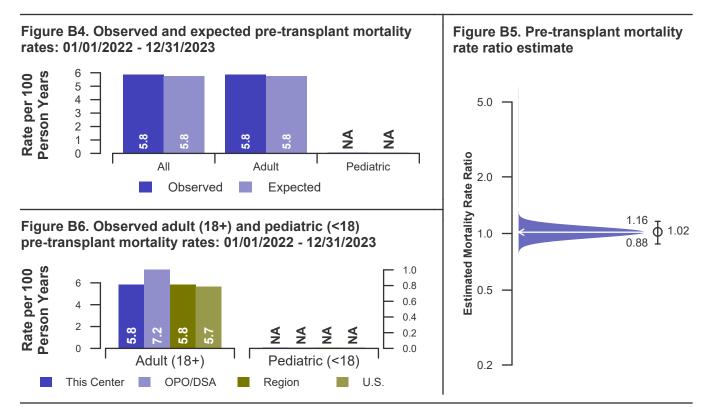
#### **B. Waiting List Information**

#### Table B5. Pre-transplant mortality rates: 01/01/2022 - 12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,785	8,005	20,913	95,588
Person Years**	3,609.9	15,766.4	44,197.9	205,809.9
Number of deaths	211	1,102	2,528	11,491
Adult (18+) Candidates				
Count on waiting list at start*	1,785	7,779	20,457	93,893
Person Years**	3,609.9	15,275.0	43,177.3	202,144.8
Number of deaths	211	1,098	2,520	11,445
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Number of deaths				

\* Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

\*\* Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or December 31.





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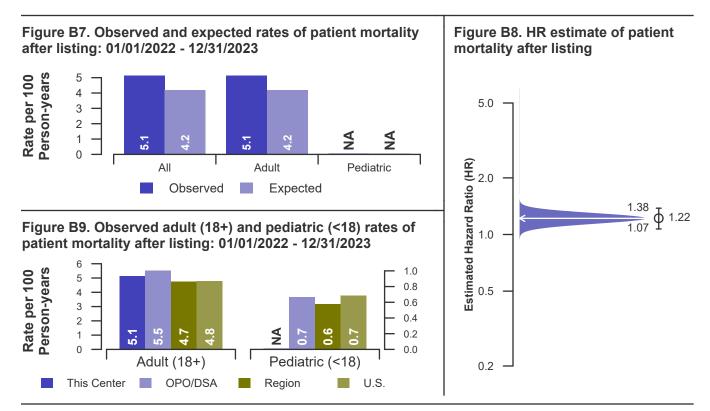
### **B. Waiting List Information**

#### Table B6. Rates of patient mortality after listing: 01/01/2022 - 12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	3,042	13,599	53,967	317,910
Person-years*	4,630.6	20,582.5	80,238.3	471,972.1
Number of Deaths	237	1,089	3,687	22,057
Adult (18+) Patients				
Count at risk during the evaluation period	3,042	13,000	52,187	308,694
Person-years*	4,630.6	19,683.5	77,459.6	457,834.1
Number of Deaths	237	1,083	3,671	21,960
Pediatric (<18) Patients				
Count at risk during the evaluation period	0	599	1,780	9,216
Person-years*	0.0	899.0	2,778.7	14,138.1
Number of Deaths	0	6	16	97

\* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2022, or from the date of first wait listing until death, reaching 7 years after listing or December 31, 2023.

\*\* Patient mortality after listing describes the relative survival experience of patients after listing. It depends on many factors, some of which are outside of the control of the transplant program. For example, availability of organs may not be the same in every part of the country.





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#### **B. Waiting List Information**

## Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 07/01/2021 and 06/30/2022

Waiting list status (survival status)		Center (Na ns Since L 12	,	U.S. (N=42,768) Months Since Listing 6 12 18			
Alive on waiting list (%)	94.5	86.1	77.0	73.5	59.7	49.0	
Died on the waiting list without transplant (%)	1.6	3.7	5.0	1.4	2.4	3.3	
Removed without transplant (%):							
Condition worsened (status unknown)	0.0	0.0	0.0	0.7	1.6	2.7	
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.2	0.3	
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.1	
Other	0.0	0.3	1.3	0.8	1.7	3.0	
Transplant (living donor from waiting list only) (%):							
Functioning (alive)	0.5	1.8	5.0	5.2	8.3	7.0	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0	
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0	
Died	0.0	0.0	0.0	0.0	0.1	0.1	
Status Yet Unknown**	0.0	0.0	0.5	0.1	0.2	3.4	
Transplant (deceased donor) (%):							
Functioning (alive)	2.4	5.0	5.2	15.6	19.9	15.7	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0	
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.1	0.1	
Died	0.3	0.3	0.5	0.3	0.7	1.0	
Status Yet Unknown*	0.8	2.6	5.2	2.0	4.4	13.5	
Lost or Transferred (status unknown) (%)	0.0	0.3	0.3	0.2	0.4	0.8	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	1.8	3.9	5.5	1.8	3.2	4.4	
Total % known died or removed as unstable	1.8	3.9	5.5	2.4	4.8	7.1	
Total % removed for transplant	3.9	9.7	16.5	23.2	33.7	40.8	
Total % with known functioning transplant (alive)	2.9	6.8	10.2	20.7	28.3	22.7	

\* Follow-up form covering specified time period not yet completed, and possibly has not become due.



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#### **B. Waiting List Information**

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Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2018 and 12/31/2020

Characteristic	Percent transplanted at time periods since listin This Center United Stat						-			
onaracteristic	Ν		1 year		3 years	s N				3 years
All	1,052	1.8	6.2	8.9	12.3	103,251	5.2	21.4	29.3	35.4
Ethnicity/Race*										
White	173	4.0	8.7	13.3	16.2	39,634	5.3	22.5	30.5	36.0
African-American	67	6.0	9.0	10.4	11.9	32,321	5.2	21.6	29.9	36.6
Hispanic/Latino	445	0.9	6.1	8.5	13.3	20,499	5.5	20.9	28.4	34.5
Asian	327	0.9	4.0	6.7	9.2	8,785	3.3	16.0	23.3	29.3
Other	40	2.5	10.0	10.0	10.0	2,012	6.6	25.1	32.7	38.5
Unknown	0					0				
Age										
<2 years	0					109	7.3	40.4	63.3	70.6
2-11 years	0					833	7.9	50.4	65.9	73.2
12-17 years	0					1,463	7.1	46.7	59.9	64.9
18-34 years	115	0.0	8.7	12.2	13.9	9,943	5.5	24.1	34.3	42.4
35-49 years	261	1.9	5.0	7.3	13.4	25,127	4.9	21.0	29.4	35.9
50-64 years	488	2.5	7.0	9.6	11.3	43,692	5.1	19.6	26.9	32.7
65-69 years	144	1.4	4.9	6.9	11.8	14,164	5.0	20.1	27.2	32.6
70+ years	44	0.0	2.3	9.1	13.6	7,920	5.7	23.0	30.0	34.7
Gender										
Male	665	2.1	6.3	8.6	10.8	63,947	5.4	20.8	28.3	34.2
Female	387	1.3	5.9	9.6	14.7	39,304	4.8	22.3	31.0	37.3

\* Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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#### **B. Waiting List Information**

 Table B9. Percent of candidates with deceased donor transplants: medical characteristics

 Candidates registered on the waiting list between 01/01/2018 and 12/31/2020

Characteristic			ercent t nis Cent	-	nted at	time per		nce listin ited Sta	-	
	Ν	30 day	1 year	2 years	3 years	s N	30 day	1 year	2 years	3 years
All	1,052	1.8	6.2	8.9	12.3	103,251	5.2	21.4	29.3	35.4
Blood Type										
0	529	0.9	4.9	8.3	11.0	51,603	4.5	18.1	24.9	30.5
A	326	2.1	6.4	8.3	13.2	32,135	6.4	25.7	35.3	42.3
В	157	3.8	8.9	11.5	13.4	15,615	3.7	18.7	26.3	32.2
AB	40	2.5	10.0	12.5	17.5	3,898	9.5	39.6	50.4	55.8
Previous Transplant										
Yes	110	0.9	10.9	18.2	23.6	13,651	3.4	20.4	29.1	35.2
No	942	1.9	5.6	7.9	10.9	89,600	5.4	21.5	29.4	35.4
Peak PRA/CPRA										
0-9%	593	3.0	8.6	10.5	13.3	81,338	5.5	20.9	28.5	34.5
10-79%	329	0.0	1.8	4.0	5.8	13,399	4.4	20.5	28.9	35.1
80+%	130	0.8	6.2	14.6	23.8	8,400	3.3	27.3	38.1	44.4
Unknown	0					2	100.0	100.0	100.0	100.0
Primary Disease*										
Glomerular Diseases	149	0.7	5.4	8.7	14.8	18,408	4.4	22.6	32.1	39.5
Tubular & Interstitial Diseases	22	0.0	18.2	27.3	27.3	3,860	6.3	23.4	30.9	36.2
Polycystic Kidneys	35	0.0	5.7	5.7	14.3	6,773	4.0	20.0	29.2	37.0
Congenital, Familial, Metabolic	8	0.0	0.0	0.0	12.5	1,986	5.8	32.2	43.3	50.8
Diabetes	458	0.9	2.4	3.9	5.0	38,584	3.6	16.8	23.4	28.4
Renovascular & Vascular Diseases	0					160	4.4	23.1	31.2	37.5
Neoplasms	0					350	6.9	28.6	37.4	41.1
Hypertensive Nephrosclerosis	48	2.1	4.2	12.5	18.8	20,785	5.7	22.4	30.8	37.8
Other	329	4.0	11.6	14.9	19.1	12,005	10.7	30.9	38.7	43.7
Missing*	3	0.0	0.0	0.0	0.0	340	2.1	11.5	20.0	24.4

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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#### **B. Waiting List Information**

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# Table B10. Time to transplant for waiting list candidates\*Candidates registered on the waiting list between 01/01/2018 and 06/30/2023

	Months to Transplant**			
Percentile	Center	OPO/DSA	Region	U.S.
5th	6.1	4.5	0.8	0.6
10th	12.9	9.5	2.3	1.7
25th	36.5	29.9	10.6	7.3
50th (median time to transplant)	Not Observed	Not Observed	49.3	30.2
75th	Not Observed	Not Observed	Not Observed	Not Observed

\* If cells contain "Not Observed" fewer than that percentile of patients had received a transplant. For example, the 50th percentile of time to transplant is the time when 50% of candidates have received transplants. If waiting times are long, then the 50th percentile may not be observed during the follow-up period for this table. Also, if more than 50% of candidates are removed from the list due to death or other reasons before receiving transplants, then the 50th percentile of time to transplant will not be observed.

\*\* Censored on 12/31/2023. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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#### **B. Waiting List Information**

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#### Table B11. Offer Acceptance Practices: 01/01/2023 - 12/31/2023

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	1,796	111,158	708,761	3,188,445
Number of Acceptances	124	568	3,105	19,396
Expected Acceptances	75.1	346.8	2,508.7	19,396.5
Offer Acceptance Ratio*	1.63	1.63	1.24	1.00
95% Credible Interval**	[1.36, 1.93]			
Low-KDRI Donors (KDRI < 1.05)				
Number of Offers	389	18,532	123,384	378,545
Number of Acceptances	39	212	1,024	5,630
Expected Acceptances	27.4	149.9	941.7	5,630.3
Offer Acceptance Ratio*	1.39	1.41	1.09	1.00
95% Credible Interval**	[1.00, 1.85]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)				
Number of Offers	1,075	76,264	437,480	2,021,807
Number of Acceptances	67	309	1,724	10,970
Expected Acceptances	42.1	172.9	1,328.5	10,968.7
Offer Acceptance Ratio*	1.56	1.78	1.30	1.00
95% Credible Interval**	[1.22, 1.95]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	332	16,362	147,897	788,093
Number of Acceptances	18	47	357	2,796
Expected Acceptances	5.5	24.0	238.5	2,797.5
Offer Acceptance Ratio*	2.65	1.89	1.49	1.00
95% Credible Interval**	[1.62, 3.93]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	1,206	102,597	652,712	2,764,405
Number of Acceptances	18	72	551	3,658
Expected Acceptances	12.5	46.9	465.6	3,651.6
Offer Acceptance Ratio*	1.38	1.51	1.18	1.00
95% Credible Interval**	[0.84, 2.05]			

\* The offer acceptance ratio estimates the relative offer acceptance practice of Stanford Health Care compared to the national offer acceptance practice. A ratio above one indicates the program accepts more offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a center accepts 25% more offers than is expected based on national offer acceptance practices), while a ratio below one indicates the program accepts fewer offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a center accepts 25% fewer offers than is expected based on national offer acceptance practices (e.g., an offer acceptance practices).

\*\* As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.36, 1.93], indicates the location of CASU's true offer acceptance ratio with 95% probability. The best estimate is 63% more likely to accept an offer compared to national acceptance behavior, but CASU's performance could plausibly range from 36% higher acceptance up to 93% higher acceptance.



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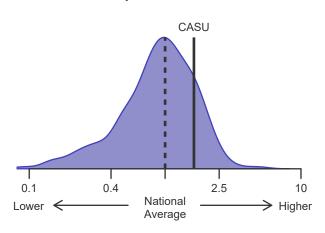
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#### **B. Waiting List Information**

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#### Figure B10. Offer acceptance: Overall



#### Figure B12. Offer acceptance: Medium-KDRI

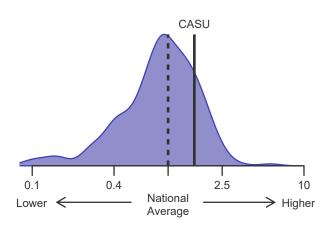
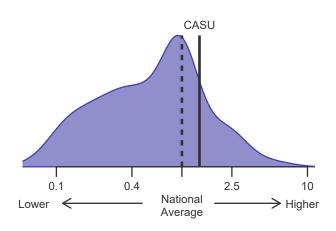
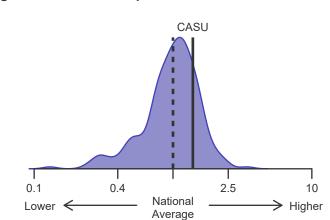


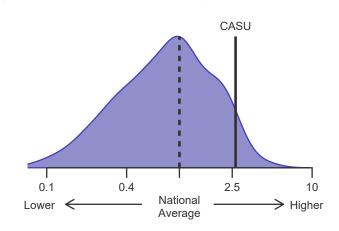
Figure B14. Offer acceptance: Offer number > 100





#### Figure B13. Offer acceptance: High-KDRI

Figure B11. Offer acceptance: Low-KDRI





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#### **C. Transplant Information**

## Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2023 and 12/31/2023

	Perce	Percentage in each category		
Characteristic	Center (N=131)	Region (N=3,408)	U.S. (N=21,041)	
Ethnicity/Race (%)*				
White	14.5	23.5	33.6	
African-American	6.9	11.9	36.3	
Hispanic/Latino	39.7	42.2	19.8	
Asian	35.1	18.8	8.2	
Other	3.8	3.4	1.9	
Unknown	0.0	0.1	0.0	
Age (%)				
<2 years	0.0	0.1	0.1	
2-11 years	0.0	1.0	1.2	
12-17	0.0	1.8	1.4	
18-34	13.0	11.5	9.0	
35-49 years	18.3	22.4	22.2	
50-64 years	40.5	38.7	40.1	
65-69 years	17.6	13.5	14.3	
70+ years	10.7	11.0	11.9	
Gender (%)				
Male	62.6	61.0	59.9	
Female	37.4	39.0	40.1	

\* Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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#### **C. Transplant Information**

# Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 01/01/2023 and 12/31/2023

	Percei	Percentage in each category		
Characteristic	Center (N=58)	Region (N=978)	U.S. (N=6,289)	
Ethnicity/Race (%)*				
White	25.9	44.5	61.2	
African-American	5.2	5.6	11.7	
Hispanic/Latino	39.7	30.2	17.9	
Asian	19.0	16.6	7.5	
Other	10.3	3.2	1.6	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.0	0.1	
2-11 years	0.0	1.6	2.0	
12-17	0.0	1.3	1.7	
18-34	25.9	16.2	14.9	
35-49 years	24.1	26.4	25.2	
50-64 years	25.9	33.6	35.4	
65-69 years	19.0	10.3	10.3	
70+ years	5.2	10.5	10.3	
Gender (%)				
Male	51.7	61.6	62.8	
Female	48.3	38.4	37.2	

\* Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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#### **C. Transplant Information**

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## Table C2D. Deceased donor transplant recipient medical characteristicsPatients transplanted between 01/01/2023 and 12/31/2023

	Percentage in each category		
Characteristic	Center (N=131)	Region (N=3,408)	U.S. (N=21,041)
Blood Type (%)			
0	52.7	49.6	46.7
A	32.1	31.9	33.5
В	12.2	13.5	14.9
AB	3.1	4.9	4.9
Previous Transplant (%)			
Yes	13.7	12.7	12.9
No	86.3	87.3	87.1
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	23.7	40.1	37.1
10-79%	42.7	23.6	24.9
80+ %	29.8	17.0	18.2
Unknown	3.8	19.3	19.8
Body Mass Index (%)			
0-20	16.0	11.6	9.1
21-25	37.4	31.4	27.3
26-30	29.0	32.6	31.3
31-35	16.8	16.6	21.2
36-40	0.8	6.0	8.7
41+	0.0	0.7	1.5
Unknown	0.0	1.1	0.9
Primary Disease (%)*			
Glomerular Diseases	22.1	23.2	20.1
Tubular and Interstitial Disease	3.8	2.9	3.8
Polycystic Kidneys	6.1	4.8	6.5
Congenital, Familial, Metabolic	1.5	3.0	2.4
Diabetes	29.8	31.9	31.5
Renovascular & Vascular Diseases	0.0	0.1	0.1
Neoplasms	0.0	0.3	0.4
Hypertensive Nephrosclerosis	6.1	16.3	22.8
Other Kidney	29.0	17.0	12.1
Missing*	1.5	0.5	0.3

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.



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#### **C. Transplant Information**

TRANSPLANT

RECIPIENTS

## Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 01/01/2023 and 12/31/2023

	Percentage in each category		
Characteristic	Center (N=58)	Region (N=978)	U.S. (N=6,289)
Blood Type (%)			
0	37.9	44.4	43.0
A	43.1	36.9	38.4
В	15.5	13.7	13.9
AB	3.4	5.0	4.6
Previous Transplant (%)			
Yes	20.7	9.8	11.4
No	79.3	90.2	88.6
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	27.6	50.6	47.2
10-79%	55.2	23.3	24.1
80+ %	13.8	5.4	5.2
Unknown	3.4	20.7	23.5
Body Mass Index (%)			
0-20	5.2	11.5	12.2
21-25	55.2	32.0	29.2
26-30	13.8	30.8	30.1
31-35	24.1	21.0	20.2
36-40	1.7	4.2	6.9
41+	0.0	0.6	1.2
Unknown	0.0	0.0	0.1
Primary Disease (%)*			
Glomerular Diseases	34.5	33.0	27.7
Tubular and Interstitial Disease	5.2	3.4	4.8
Polycystic Kidneys	13.8	11.5	11.8
Congenital, Familial, Metabolic	1.7	2.8	3.4
Diabetes	12.1	25.3	25.7
Renovascular & Vascular Diseases	0.0	0.2	0.1
Neoplasms	0.0	0.1	0.7
Hypertensive Nephrosclerosis	10.3	11.7	14.8
Other Kidney	22.4	11.6	10.7
Missing*	0.0	0.6	0.3

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.



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#### **C. Transplant Information**

## Table C3D. Deceased donor characteristicsTransplants performed between 01/01/2023 and 12/31/2023

	Percentage in each category		
Donor Characteristic	Center (N=131)	Region (N=3,408)	U.S. (N=21,041)
Cause of Death (%)			
Deceased: Stroke	35.1	22.0	20.2
Deceased: MVA	13.7	13.0	12.7
Deceased: Other	51.1	65.0	67.1
Ethnicity/Race (%)*			
White	62.6	54.8	66.5
African-American	6.1	8.1	14.2
Hispanic/Latino	16.0	26.7	14.9
Asian	10.7	6.7	2.8
Other	4.6	3.3	1.5
Not Reported	0.0	0.4	0.1
Age (%)			
<2 years	0.0	0.7	0.6
2-11 years	0.8	1.9	2.0
12-17	4.6	3.2	3.2
18-34	22.1	32.6	28.9
35-49 years	34.4	35.6	35.3
50-64 years	31.3	23.0	26.8
65-69 years	4.6	2.5	2.6
70+ years	2.3	0.5	0.5
Gender (%)			
Male	66.4	65.5	63.8
Female	33.6	34.5	36.2
Blood Type (%)			
0	53.4	51.6	48.4
A	34.4	34.2	36.4
В	10.7	10.8	12.0
AB	1.5	3.4	3.3
Unknown	0.0	0.0	0.0

\* Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



Center Code: CASU

REGISTRY OFCenter Code: CASUTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: July 9, 2024RECIPIENTSBased on Data Available: April 30, 2024

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#### **C. Transplant Information**

## Table C3L. Living donor characteristicsTransplants performed between 01/01/2023 and 12/31/2023

	Perce	Percentage in each category		
Donor Characteristic	Center (N=58)	Region (N=978)	U.S. (N=6,289)	
Ethnicity/Race (%)*				
White	39.7	54.7	68.7	
African-American	5.2	4.0	7.2	
Hispanic/Latino	37.9	27.2	16.9	
Asian	15.5	11.3	5.2	
Other	1.7	2.6	1.8	
Not Reported	0.0	0.2	0.2	
Age (%)				
0-11 years	0.0	0.0	0.0	
12-17	0.0	0.0	0.0	
18-34	29.3	22.2	23.5	
35-49 years	39.7	37.7	38.5	
50-64 years	27.6	32.4	31.5	
65-69 years	1.7	6.2	4.9	
70+ years	1.7	1.4	1.7	
Gender (%)				
Male	50.0	36.3	36.5	
Female	50.0	63.7	63.5	
Blood Type (%)				
0	48.3	59.2	60.1	
A	39.7	29.2	29.3	
В	10.3	9.4	8.6	
AB	1.7	2.1	2.0	
Unknown	0.0	0.0	0.0	

\* Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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#### **C. Transplant Information**

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# Table C4D. Deceased donor transplant characteristicsTransplants performed between 01/01/2023 and 12/31/2023

Transplants performed between 01/01/2023 and 12/31/2023	Perce	Percentage in each category		
Transplant Characteristic	Center (N=131)	Region (N=3,408)	U.S. (N=21,041)	
Cold Ischemic Time (Hours): Local (%)				
Deceased: 0-11 hr	24.0	17.9	17.8	
Deceased: 12-21 hr	65.3	57.0	55.2	
Deceased: 22-31 hr	10.7	21.8	23.6	
Deceased: 32-41 hr	0.0	2.2	2.5	
Deceased: 42+ hr	0.0	0.3	0.4	
Not Reported	0.0	0.8	0.6	
Cold Ischemic Time (Hours): Shared (%)				
Deceased: 0-11 hr	10.7	8.4	7.7	
Deceased: 12-21 hr	53.6	48.3	50.6	
Deceased: 22-31 hr	33.9	38.5	33.6	
Deceased: 32-41 hr	1.8	4.2	6.3	
Deceased: 42+ hr	0.0	0.1	1.1	
Not Reported	0.0	0.4	0.6	
Level of Mismatch (%)				
A Locus Mismatches (%)				
0	13.7	13.2	12.0	
1	39.7	38.9	38.8	
2	46.6	47.7	49.1	
Not Reported	0.0	0.2	0.2	
B Locus Mismatches (%)	0.0	0.2	0.2	
	4.6	7.4	6.9	
1	25.2	24.7	24.4	
2	70.2	67.7	68.5	
Not Reported	0.0	0.2	0.2	
DR Locus Mismatches (%)	0.0	0.2	0.2	
	13.0	15.4	15.5	
0 1	45.8	47.9	46.4	
2	41.2	36.5	37.9	
Not Reported	0.0	0.2	0.2	
Total Mismatches (%)	0.0	4 7	4 4	
0	0.8	4.7	4.4	
1	3.1	1.2	1.2	
2	3.1	4.3	4.3	
3	16.0	14.7	13.7	
4	34.4	28.2	27.2	
5	24.4	31.8	33.1	
6	18.3	15.0	15.9	
Not Reported	0.0	0.2	0.2	
Procedure Type (%)		<b>aa</b> (		
Single organ	93.9	92.4	93.9	
Multi organ	6.1	7.6	6.1	
Dialysis in First Week After Transplant (%)				
Yes	36.6	41.0	32.8	
No	63.4	59.0	67.2	
Not Reported	0.0	0.0	0.0	
Donor Location (%)				
Local Donation Service Area (DSA)	57.3	52.0	38.4	
Another Donation Service Area (DSA)	42.7	48.0	61.6	
Median Time in Hospital After Transplant	4.0 Days	4.0 Days	5.0 Days	

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA).

See COVID-19 Guide for pandemic-related follow-up limits.



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#### **C. Transplant Information**

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## Table C4L. Living donor transplant characteristicsTransplants performed between 01/01/2023 and 12/31/2023

	Percentage in each category		
Transplant Characteristic	Center (N=58)	Region (N=978)	U.S. (N=6,289)
Relation with Donor (%)			
Related	36.2	39.7	36.6
Unrelated	63.8	59.1	62.3
Not Reported	0.0	1.2	1.0
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	12.1	19.2	16.2
1	43.1	47.6	48.2
2	44.8	30.7	32.2
Not Reported	0.0	2.5	3.5
B Locus Mismatches (%)			
0	8.6	11.6	9.7
1	39.7	41.6	40.9
2	51.7	44.4	46.0
Not Reported	0.0	2.5	3.5
DR Locus Mismatches (%)			
0	12.1	18.9	15.3
1	44.8	46.9	47.6
2	43.1	31.7	33.7
Not Reported	0.0	2.5	3.5
Total Mismatches (%)			
0	3.4	6.6	4.9
1	3.4	4.0	3.4
2	10.3	13.1	12.0
3	19.0	22.4	22.1
4	17.2	16.8	17.5
5	22.4	22.7	23.6
6	24.1	12.0	13.1
Not Reported	0.0	2.5	3.5
Procedure Type (%)			
Single organ	100.0	100.0	100.0
Multi organ	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	1.7	3.9	2.7
No	98.3	96.1	97.3
Not Reported	0.0	0.0	0.0
Median Time in Hospital After Transplant	3.0 Days	3.0 Days	4.0 Days



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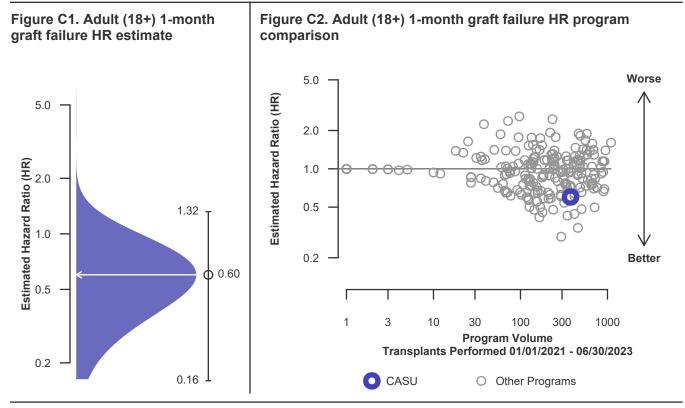
## C. Transplant Information

# Table C5. Adult (18+) 1-month survival with a functioning graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	376	58,562
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.47% [98.74%-100.00%]	98.49% [98.39%-98.59%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.76%	
Number of observed graft failures (including deaths) during the first month after transplant	2	884
Number of expected graft failures (including deaths) during the first month after transplant	4.67	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.16, 1.32]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.16, 1.32], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 40% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 84% reduced risk up to 32% increased risk.





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## C. Transplant Information

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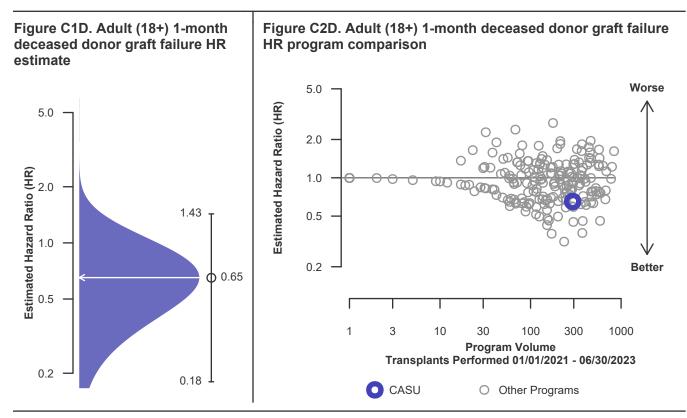
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# Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	292	44,269
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.32% [98.37%-100.00%]	98.26% [98.14%-98.38%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.59%	
Number of observed graft failures (including deaths) during the first month after transplant	2	770
Number of expected graft failures (including deaths) during the first month after transplant	4.14	
Estimated hazard ratio*	0.65	
95% credible interval for the hazard ratio**	[0.18, 1.43]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.18, 1.43], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 35% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 82% reduced risk up to 43% increased risk.





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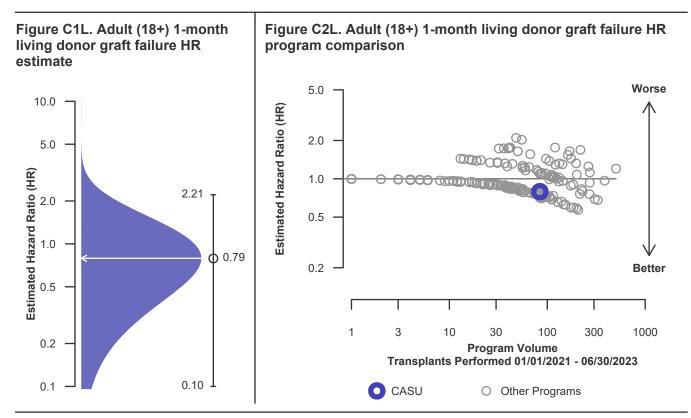
## C. Transplant Information

# Table C5L. Adult (18+) 1-month survival with a functioning living donor graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	84	14,293
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.20% [99.06%-99.35%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.38%	
Number of observed graft failures (including deaths) during the first month after transplant	0	114
Number of expected graft failures (including deaths) during the first month after transplant	0.52	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.10, 2.21]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.10, 2.21], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 90% reduced risk up to 121% increased risk.





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## C. Transplant Information

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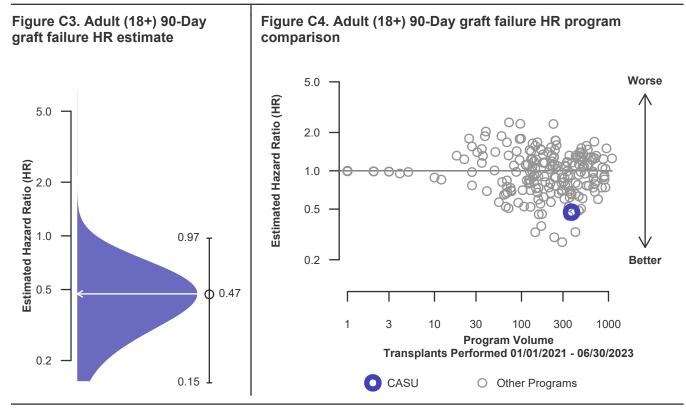
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# Table C6. Adult (18+) 90-Day survival with a functioning graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	376	58,562
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	99.20% [98.31%-100.00%]	97.26% [97.13%-97.39%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.74%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	3	1,606
Number of expected graft failures (including deaths) during the first 90 days after transplant	8.57	
Estimated hazard ratio*	0.47	
95% credible interval for the hazard ratio**	[0.15, 0.97]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.15, 0.97], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 53% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 85% reduced risk up to 3% reduced risk.





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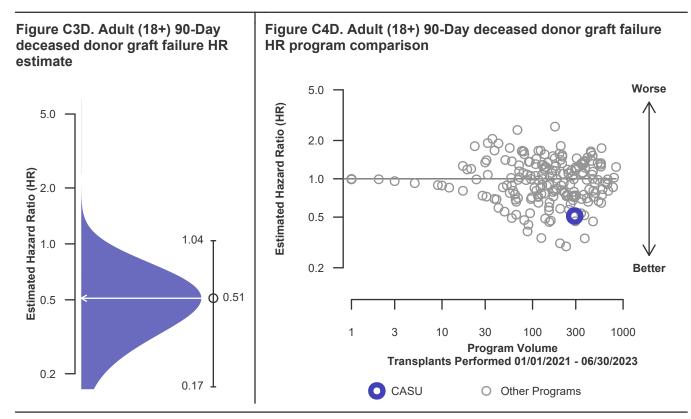
## C. Transplant Information

# Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	292	44,269
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	98.97% [97.82%-100.00%]	96.75% [96.58%-96.91%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.35%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	3	1,440
Number of expected graft failures (including deaths) during the first 90 days after transplant	7.81	
Estimated hazard ratio*	0.51	
95% credible interval for the hazard ratio**	[0.17, 1.04]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.17, 1.04], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 49% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 83% reduced risk up to 4% increased risk.





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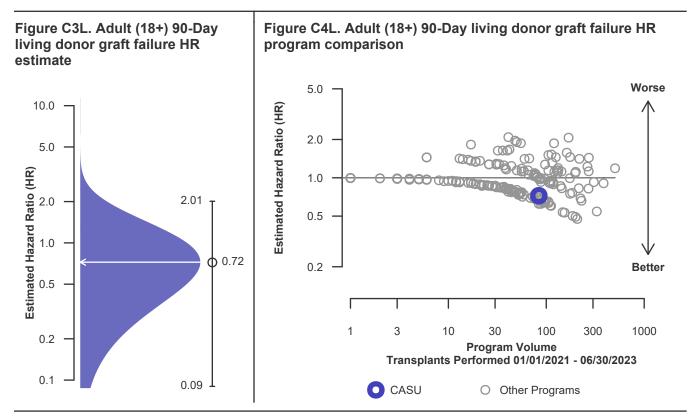
## C. Transplant Information

# Table C6L. Adult (18+) 90-Day survival with a functioning living donor graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	84	14,293
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.84% [98.66%-99.01%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	99.09%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	166
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.77	
Estimated hazard ratio*	0.72	
95% credible interval for the hazard ratio**	[0.09, 2.01]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.09, 2.01], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 28% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 91% reduced risk up to 101% increased risk.





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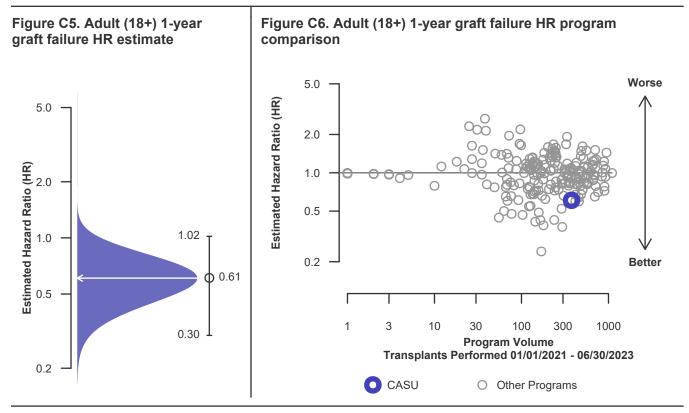
### **C. Transplant Information**

#### Table C7. Adult (18+) 1-year survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	376	58,562
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.38% [95.70%-99.10%]	94.54% [94.35%-94.73%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.47%	
Number of observed graft failures (including deaths) during the first year after transplant	9	2,984
Number of expected graft failures (including deaths) during the first year after transplant	16.09	
Estimated hazard ratio*	0.61	
95% credible interval for the hazard ratio**	[0.30, 1.02]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.30, 1.02], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 39% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 70% reduced risk up to 2% increased risk.





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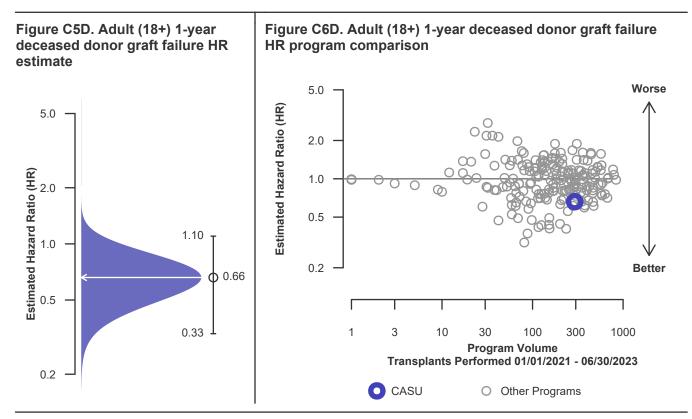
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# Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	292	44,269
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.63% [94.48%-98.84%]	93.51% [93.27%-93.75%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.69%	
Number of observed graft failures (including deaths) during the first year after transplant	9	2,677
Number of expected graft failures (including deaths) during the first year after transplant	14.66	
Estimated hazard ratio*	0.66	
95% credible interval for the hazard ratio**	[0.33, 1.10]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.33, 1.10], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 34% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 67% reduced risk up to 10% increased risk.





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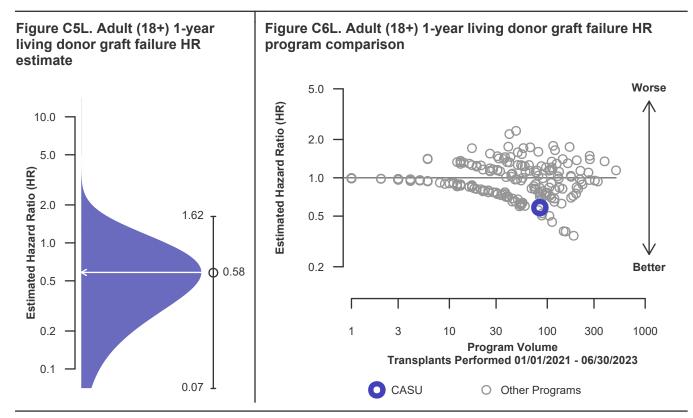
## **C. Transplant Information**

#### Table C7L. Adult (18+) 1-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	84	14,293
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.70% [97.44%-97.95%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.20%	
Number of observed graft failures (including deaths) during the first year after transplant	0	307
Number of expected graft failures (including deaths) during the first year after transplant	1.43	
Estimated hazard ratio*	0.58	
95% credible interval for the hazard ratio**	[0.07, 1.62]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.07, 1.62], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 42% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 93% reduced risk up to 62% increased risk.





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## **C. Transplant Information**

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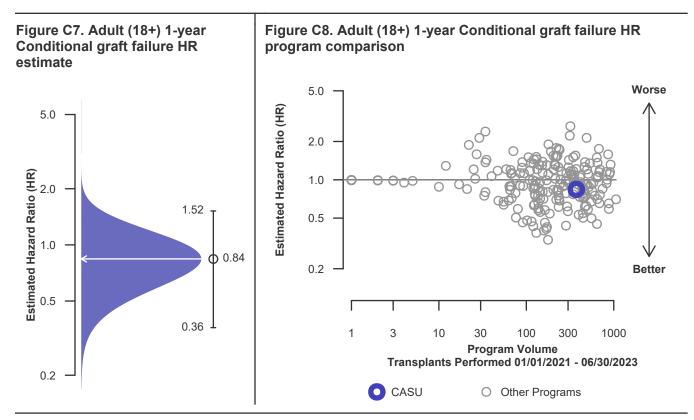
RECIPIENTS

## Table C8. Adult (18+) 1-year Conditional survival with a functioning graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	373	56,956
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [95% C	98.17% 97.34%-99.10%]	97.20% [97.14%-97.27%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.68%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	6	1,378
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	7.51	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.36, 1.52]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.36, 1.52], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 16% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 64% reduced risk up to 52% increased risk.





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## **C. Transplant Information**

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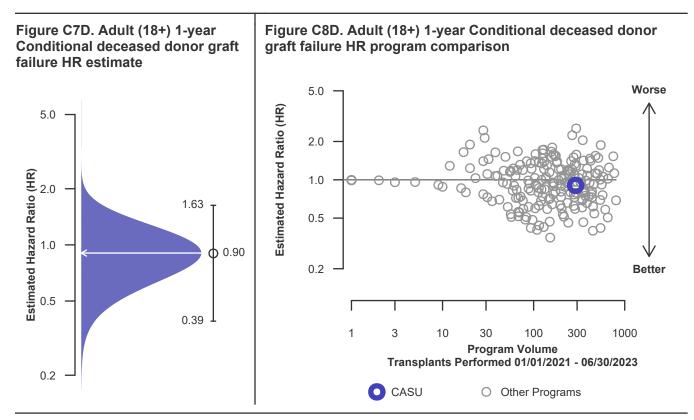
RECIPIENTS

#### Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	289	42,829
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [9] [9] (unadjusted for patient and donor characteristics)	s 97.64% 96.58%-98.84%]	96.66% [96.58%-96.74%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.26%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	6	1,237
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	6.85	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.39, 1.63]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.39, 1.63], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 61% reduced risk up to 63% increased risk.





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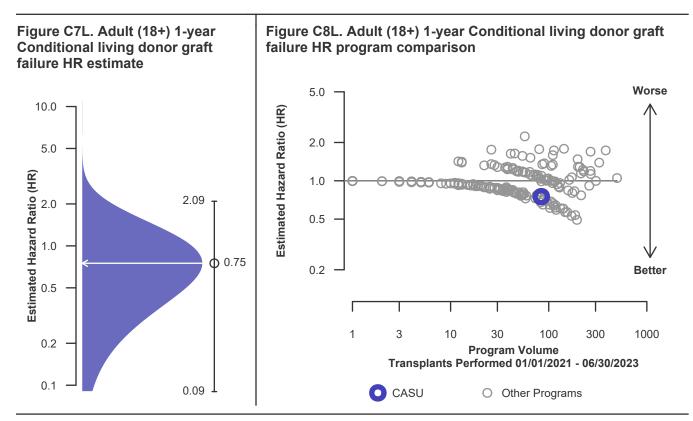
## **C. Transplant Information**

## Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	84	14,127
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	98.84% [98.76%-98.93%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.09%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	141
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.66	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.09, 2.09]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.09, 2.09], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 25% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 91% reduced risk up to 109% increased risk.





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### **C. Transplant Information**

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#### Table C9. Adult (18+) 3-year survival with a functioning graft

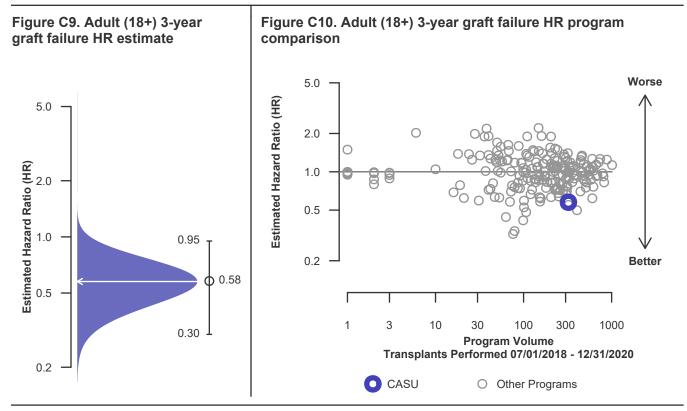
## Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASU	U.S.
Number of transplants evaluated	323	48,337
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	95.10% [91.93%-98.38%]	87.54% [87.07%-88.02%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.19%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	10	3,192
Number of expected graft failures (including deaths) during the first 3 years after transplant	18.82	
Estimated hazard ratio*	0.58	
95% credible interval for the hazard ratio**	[0.30, 0.95]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.30, 0.95], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 42% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 70% reduced risk up to 5% reduced risk.





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#### Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft

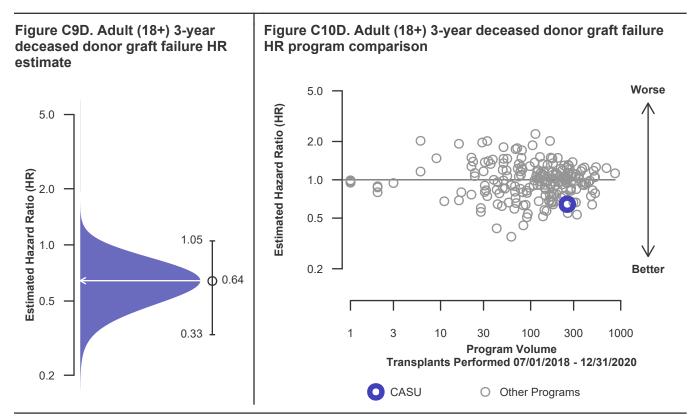
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

· · · · ·	CASU	U.S.
Number of transplants evaluated	255	34,231
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	93.86% [89.93%-97.96%]	85.15% [84.56%-85.74%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.99%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	10	2,774
Number of expected graft failures (including deaths) during the first 3 years after transplant	16.67	
Estimated hazard ratio*	0.64	
95% credible interval for the hazard ratio**	[0.33, 1.05]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.33, 1.05], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 36% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 67% reduced risk up to 5% increased risk.





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## C. Transplant Information

#### Table C9L. Adult (18+) 3-year survival with a functioning living donor graft

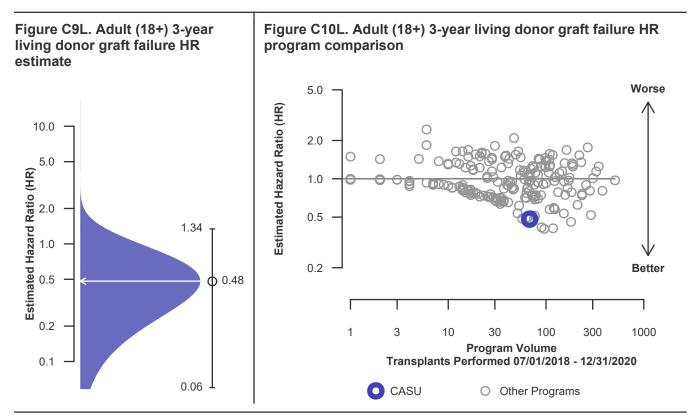
#### Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

· · · · ·	CASU	U.S.
Number of transplants evaluated	68	14,106
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	93.82% [93.13%-94.51%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	93.65%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	418
Number of expected graft failures (including deaths) during the first 3 years after transplant	2.15	
Estimated hazard ratio*	0.48	
95% credible interval for the hazard ratio**	[0.06, 1.34]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\* The 95% credible interval, [0.06, 1.34], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 52% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 94% reduced risk up to 34% increased risk.





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### C. Transplant Information

Table C10. Pediatric (<18) 1-month survival with a functioning graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C11. Pediatric (<18) 1-month graft failure HR estimate	Figure C12. Pediatric (<18) 1-month graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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## C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C11D. Pediatric (<18) 1-month deceased donor graft failure HR estimate	Figure C12D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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### C. Transplant Information

Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C11L. Pediatric (<18) 1-month living donor graft failure HR estimate	Figure C12L. Pediatric (<18) 1-month living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C11. Pediatric (<18) 90-Day survival with a functioning graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C13. Pediatric (<18) 90-Day graft failure HR estimate	Figure C14. Pediatric (<18) 90-Day graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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## C. Transplant Information

Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C13D. Pediatric (<18) 90-Day deceased donor graft failure HR estimate	Figure C14D. Pediatric (<18) 90-Day deceased donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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### C. Transplant Information

# Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C13L. Pediatric (<18) 90-Day living donor graft failure HR estimate	Figure C14L. Pediatric (<18) 90-Day living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C12. Pediatric (<18) 1-year survival with a functioning graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C15. Pediatric (<18) 1-year graft failure HR estimate	Figure C16. Pediatric (<18) 1-year graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C15D. Pediatric (<18) 1-year deceased donor graft failure HR estimate	Figure C16D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C15L. Pediatric (<18) 1-year living donor graft failure HR estimate	Figure C16L. Pediatric (<18) 1-year living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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### C. Transplant Information

# Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C17. Pediatric (<18) 1-year Conditional graft failure HR estimate	Figure C18. Pediatric (<18) 1-year Conditional graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

> This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C17D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR estimate	Figure C18D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

> This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C17L. Pediatric (<18) 1-year Conditional living donor graft failure HR estimate	Figure C18L. Pediatric (<18) 1-year Conditional living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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## C. Transplant Information

#### Table C14. Pediatric (<18) 3-year survival with a functioning graft

Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2018-12/31/2020

Figure C19. Pediatric (<18) 3-year graft failure HR estimate	Figure C20. Pediatric (<18) 3-year graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2018-12/31/2020	07/01/2018-12/31/2020



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Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020Deaths and retransplants are considered graft failuresFollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2018-12/31/2020

Figure C19D. Pediatric (<18) 3-year deceased donor graft failure HR estimate	Figure C20D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2018-12/31/2020	07/01/2018-12/31/2020



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Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020Deaths and retransplants are considered graft failuresFollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2018-12/31/2020

Figure C19L. Pediatric (<18) 3-year living donor graft failure HR estimate	Figure C20L. Pediatric (<18) 3-year living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2018-12/31/2020	07/01/2018-12/31/2020



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## C. Transplant Information

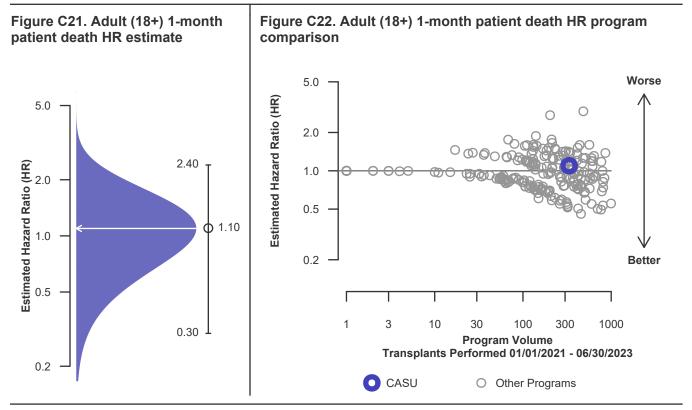
#### Table C15. Adult (18+) 1-month patient survival

Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	333	52,433
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.40% [98.57%-100.00%]	99.49% [99.42%-99.55%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.51%	
Number of observed deaths during the first month after transplant	2	270
Number of expected deaths during the first month after transplant	1.65	
Estimated hazard ratio*	1.10	
95% credible interval for the hazard ratio**	[0.30, 2.40]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.30, 2.40], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 10% higher risk of patient death compared to an average program, but CASU's performance could plausibly range from 70% reduced risk up to 140% increased risk.





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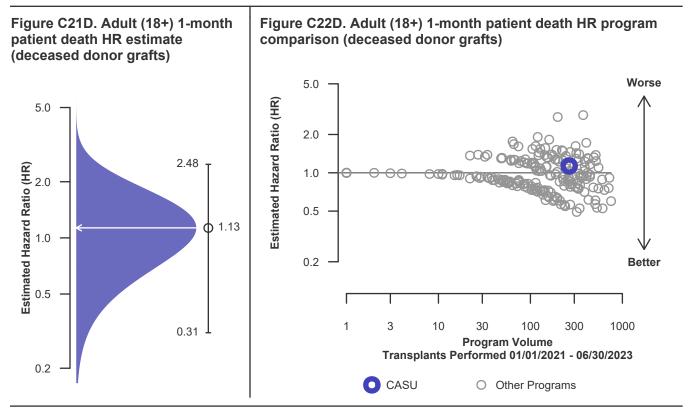
## C. Transplant Information

#### Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	264	39,390
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.24% [98.20%-100.00%]	99.39% [99.31%-99.47%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.42%	
Number of observed deaths during the first month after transplant	2	241
Number of expected deaths during the first month after transplant	1.54	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.31, 2.48]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.31, 2.48], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 13% higher risk of patient death compared to an average program, but CASU's performance could plausibly range from 69% reduced risk up to 148% increased risk.





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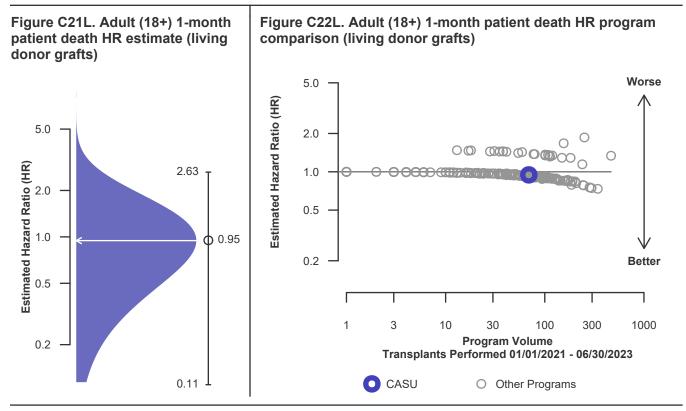
## C. Transplant Information

## Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	69	13,043
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.78% [99.70%-99.86%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.83%	
Number of observed deaths during the first month after transplant	0	29
Number of expected deaths during the first month after transplant	0.11	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.63]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.63], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 5% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 89% reduced risk up to 163% increased risk.





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## **C. Transplant Information**

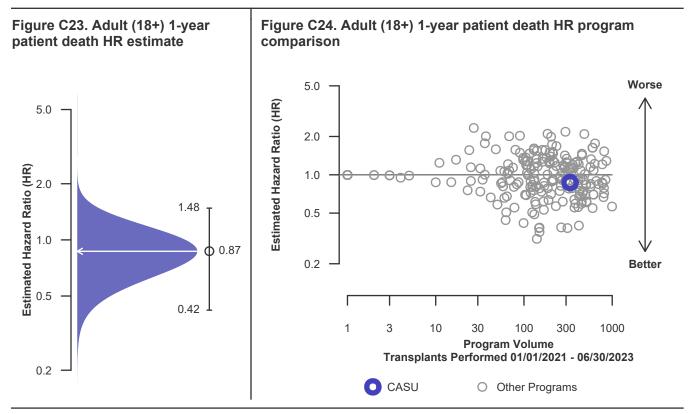
#### Table C16. Adult (18+) 1-year patient survival

Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	333	52,433
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.34% [95.53%-99.19%]	96.75% [96.59%-96.91%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.86%	
Number of observed deaths during the first year after transplant	8	1,545
Number of expected deaths during the first year after transplant	9.51	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.42, 1.48]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.42, 1.48], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 13% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 58% reduced risk up to 48% increased risk.





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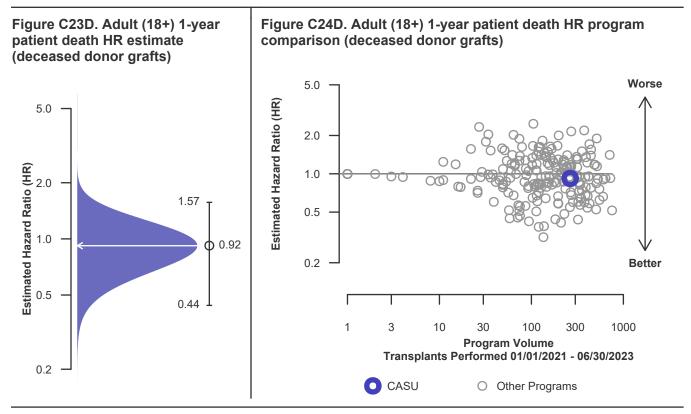
## C. Transplant Information

## Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	264	39,390
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.66% [94.40%-98.98%]	96.11% [95.91%-96.31%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.30%	
Number of observed deaths during the first year after transplant	8	1,387
Number of expected deaths during the first year after transplant	8.88	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.44, 1.57]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.44, 1.57], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 8% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 56% reduced risk up to 57% increased risk.





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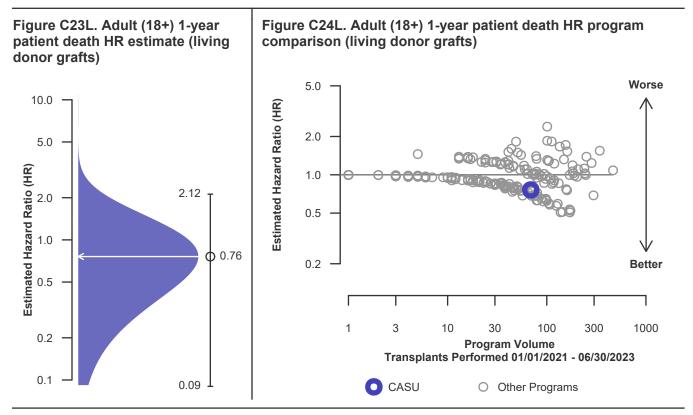
## **C. Transplant Information**

# Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	69	13,043
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.66% [98.46%-98.87%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.00%	
Number of observed deaths during the first year after transplant	0	158
Number of expected deaths during the first year after transplant	0.63	
Estimated hazard ratio*	0.76	
95% credible interval for the hazard ratio**	[0.09, 2.12]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.09, 2.12], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 24% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 91% reduced risk up to 112% increased risk.





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## **C. Transplant Information**

#### Table C17. Adult (18+) 3-year patient survival

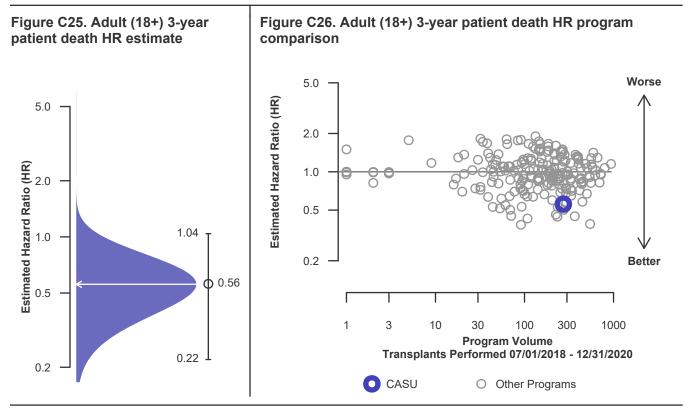
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASU	U.S.
Number of transplants evaluated	273	43,162
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.61% [93.51%-99.81%]	91.21% [90.77%-91.65%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.97%	
Number of observed deaths during the first 3 years after transplant	5	1,865
Number of expected deaths during the first 3 years after transplant	10.57	
Estimated hazard ratio*	0.56	
95% credible interval for the hazard ratio**	[0.22, 1.04]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.22, 1.04], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 44% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 78% reduced risk up to 4% increased risk.





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## **C. Transplant Information**

#### Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

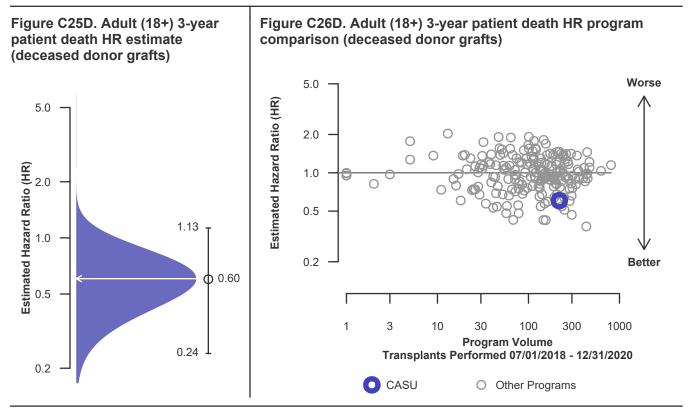
## Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASU	U.S.
Number of transplants evaluated	218	30,366
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	95.77% [91.93%-99.77%]	89.41% [88.86%-89.96%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.90%	
Number of observed deaths during the first 3 years after transplant	5	1,632
Number of expected deaths during the first 3 years after transplant	9.58	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.24, 1.13]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.24, 1.13], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 40% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 76% reduced risk up to 13% increased risk.





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## **C. Transplant Information**

#### Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients)

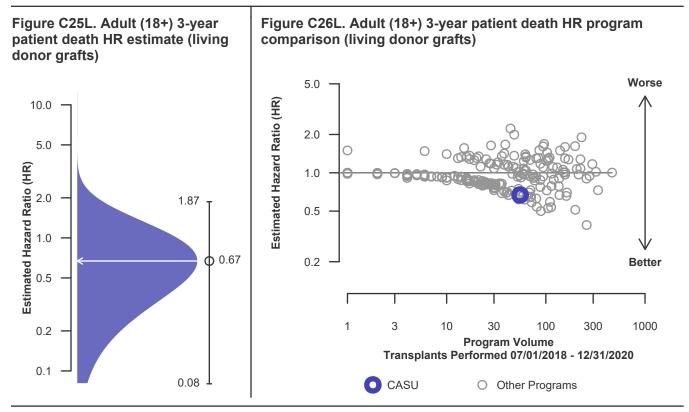
## Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASU	U.S.
Number of transplants evaluated	55	12,796
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.88% [95.27%-96.48%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	96.23%	
Number of observed deaths during the first 3 years after transplant	0	233
Number of expected deaths during the first 3 years after transplant	0.98	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.08, 1.87]	

\* The hazard ratio provides an estimate of how Stanford Health Care's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If CASU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.08, 1.87], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 33% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 92% reduced risk up to 87% increased risk.





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### C. Transplant Information

Table C18. Pediatric (<18) 1-month patient survival</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C27. Pediatric (<18) 1-month patient death HR estimate	Figure C28. Pediatric (<18) 1-month patient death HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C27D. Pediatric (<18) 1-month patient death HR estimate (deceased donor grafts)	Figure C28D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C27L. Pediatric (<18) 1-month patient death HR estimate (living donor grafts)	Figure C28L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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### C. Transplant Information

Table C19. Pediatric (<18) 1-year patient survival</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C29. Pediatric (<18) 1-year patient death HR estimate	Figure C30. Pediatric (<18) 1-year patient death HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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### C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C29D. Pediatric (<18) 1-year patient death HR estimate (deceased donor grafts)	Figure C30D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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### C. Transplant Information

Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2021-06/30/2023

Figure C29L. Pediatric (<18) 1-year patient death HR estimate (living donor grafts)	Figure C30L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2021-06/30/2023	01/01/2021-06/30/2023



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### C. Transplant Information

#### Table C20. Pediatric (<18) 3-year patient survival

Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2018-12/31/2020

Figure C31. Pediatric (<18) 3-year patient death HR estimate	Figure C32. Pediatric (<18) 3-year patient death HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2018-12/31/2020	07/01/2018-12/31/2020



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## C. Transplant Information

Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2018-12/31/2020

Figure C31D. Pediatric (<18) 3-year patient death HR estimate (deceased donor grafts)	Figure C32D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2018-12/31/2020	07/01/2018-12/31/2020



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## C. Transplant Information

Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2018-12/31/2020

Figure C31L. Pediatric (<18) 3-year patient death HR estimate (living donor grafts)	Figure C32L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2018-12/31/2020	07/01/2018-12/31/2020



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#### **C. Transplant Information**

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#### Table C21. Multi-organ transplant graft survival: 01/01/2021 - 06/30/2023

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed		Kidney Graft Failures		Estimated Kidney Graft Survival	
	CASU-TX1	USA	CASU-TX1	USA	CASU-TX1	USA
Kidney-Heart	12	934	2	133	83.3%	85.8%
Kidney-Liver	15	1,932	1	223	93.3%	88.5%
Kidney Lung	3	49	2	13	33.3%	73.5%
Kidney-Pancreas	5	2,040	1	91	80.0%	95.5%

#### Pediatric (<18) Transplants

No pediatric (<18) multi-organ transplants were performed

#### Table C22. Multi-organ transplant patient survival: 01/01/2021 - 06/30/2023

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed			)eaths	Estimated Patient Survival	
	CASU-TX1	USA	CASU-TX1	USA	CASU-TX1	USA
Kidney-Heart	12	934	2	96	83.3%	89.7%
Kidney-Liver	15	1,932	1	169	93.3%	91.3%
Kidney Lung	3	49	1	8	66.7%	83.7%
Kidney-Pancreas	5	2,040	0	62	100.0%	97.0%

#### Pediatric (<18) Transplants

No pediatric (<18) multi-organ transplants were performed

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.



REGISTRY OFCenter Code: CASUTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: July 9, 2024RECIPIENTSBased on Data Available: April 30, 2024

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

## **D. Living Donor Information**

#### Table D1. Living donor summary: 01/01/2021 - 12/31/2023

		This Center			United States		
Living Donor Follow-Up	01/2021- 12/2021	01/2022- 12/2022	01/2023- 06/2023	01/2021- 12/2021	01/2022- 12/2022	01/2023- 06/2023	
Number of Living Donors	39	38	28	5,970	5,863	3,079	
6-Month Follow-Up Donors due for follow-up	39	38	25	5,968	5,862	2,490	
Timely clinical data	32 82.1%	31 81.6%	20 80.0%	5,221 87.5%	4,855 82.8%	2,041 82.0%	
Timely lab data	37 94.9%	32 84.2%	18 72.0%	4,923 82.5%	4,693 80.1%	1,997 80.2%	
12-Month Follow-Up Donors due for follow-up	39	33		5,968	5,400		
Timely clinical data	30 76.9%	24 72.7%		4,887 81.9%	4,125 76.4%		
Timely lab data	29 74.4%	20 60.6%		4,524 75.8%	3,933 72.8%		
24-Month Follow-Up Donors due for follow-up	36			5,493			
Timely clinical data	23 63.9%			3,862 70.3%			
Timely lab data	23 63.9%			3,600 65.5%			

Follow-up forms due during the COVID-19 amnesty period from 3/13/2020-3/31/2021 are not included in timely clinical and lab data calculations