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Stanford Health Care Center Code: CASU

TRANSPLANT Release Date: January 9, 2024 Based on Data Available: October 31, 2023 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

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 and July 2023. 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 January 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 January 2024 reporting cycle. These changes will remain in force beyond the January 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 7/1/2020-12/31/2022, follow-up through 6/30/2023.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2018-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-6/30/2020; follow-up through 6/30/2023.

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

Days after listing (and before transplant) between 7/1/2021 and 6/30/2023.



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

Candidates on the waitlist 7/1/2021-6/30/2023.

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

Evaluation period: 7/1/2021-6/30/2023.

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

Offers received 7/1/2022-6/30/2023.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 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 July 2024.

As with the July 2023 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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This report contains a wide range of useful information about the lung 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 deceased donor transplant rate at this program was 188.4 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. 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 07/01/2017 and 12/31/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.2 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2023 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 - B15 similarly show offer acceptance rates for subsets of offers.

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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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.

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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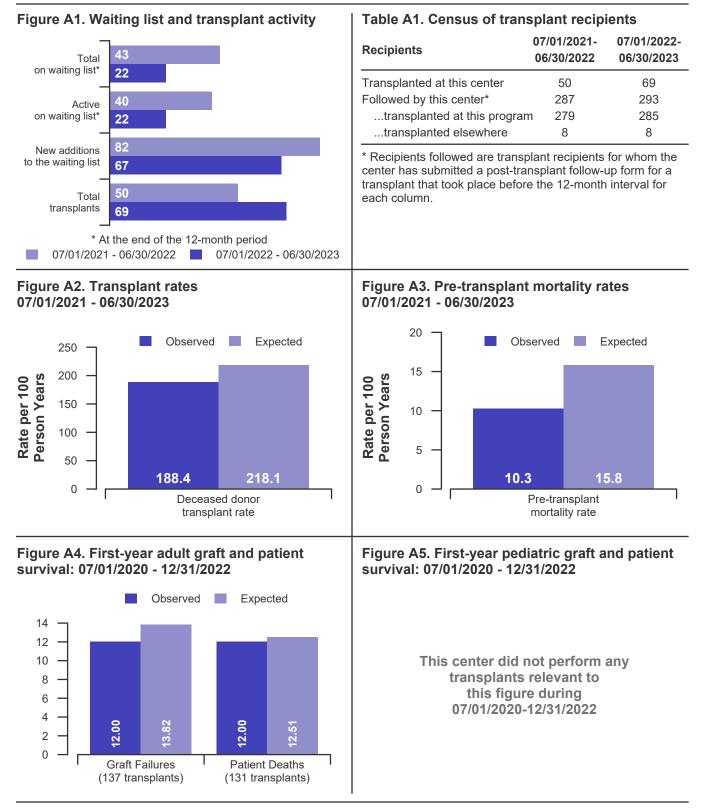
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A. Program Summary





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B. Waiting List Information

Table B1. Waiting list activity summary: 07/01/2021 - 06/30/2023

		ts for enter	Activity for 07/01/2022 to 06/30/202 as percent of registrants on waiting on 07/01/2022			
Waiting List Registrations	07/01/2021- 06/30/2022	07/01/2022- 06/30/2023	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	40	43	100.0	100.0	100.0	
New listings at this center	82	67	155.8	340.2	313.3	
Removals						
Transferred to another center	1	0	0.0	0.0	1.2	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	50	69	160.5	316.5	276.1	
Died	2	3	7.0	12.2	10.6	
Transplanted at another center	1	0	0.0	1.8	2.1	
Deteriorated	2	4	9.3	11.6	10.8	
Recovered	3	0	0.0	2.4	3.3	
Other reasons	20	12	27.9	17.7	11.9	
On waiting list at end of period	43	22	51.2	78.0	97.1	

* 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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Table B2. Demographic characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2022 and 06/30/2023

Domographic Characteristic		ting List Regi 022 to 06/30/2			ing List Regis n 06/30/2023 ('	
Demographic Characteristic	This Center (N=67)	OPTN Region (N=558)	U.S. (N=3,283)	This Center (N=22)	OPTN Region (N=128)	U.S. (N=1,018)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	58.2	54.5	70.9	63.6	50.8	67.3
African-American	3.0	5.2	10.2	4.5	6.2	14.6
Hispanic/Latino	23.9	31.0	14.2	22.7	31.2	13.5
Asian	13.4	7.9	3.8	9.1	9.4	4.1
Other	1.5	1.4	0.8	0.0	2.3	0.5
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	0.0	0.0	0.2	0.0	0.0	0.3
2-11 years	0.0	0.4	0.4	0.0	1.6	1.4
12-17 years	0.0	0.9	0.7	0.0	0.8	0.6
18-34 years	11.9	5.2	5.1	4.5	4.7	6.5
35-49 years	14.9	13.3	11.3	13.6	15.6	12.2
50-64 years	46.3	40.3	43.5	54.5	44.5	46.8
65-69 years	16.4	23.5	25.2	18.2	18.8	21.6
70+ years	10.4	16.5	13.6	9.1	14.1	10.7
Gender (%)						
Male	61.2	57.7	58.9	50.0	42.2	43.5
Female	38.8	42.3	41.1	50.0	57.8	56.5

* 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 B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2022 and 06/30/2023

Medical Characteristic		ting List Reg 022 to 06/30/2			ing List Regis 1 06/30/2023 (
	This Center (N=67)	OPTN Region (N=558)	U.S. (N=3,283)	This Center (N=22)	OPTN Region (N=128)	U.S. (N=1,018)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
0	44.8	47.3	46.3	72.7	65.6	62.0
A	37.3	38.0	38.3	18.2	28.9	28.1
В	14.9	11.5	11.8	4.5	4.7	8.4
AB	3.0	3.2	3.6	4.5	0.8	1.5
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	6.0	2.5	3.0	9.1	3.1	3.5
No	94.0	97.5	97.0	90.9	96.9	96.5
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Idiopathic Pulmonary Arterial Hypertension	14.9	10.0	7.1	13.6	14.8	11.0
Cystic Fibrosis	6.0	2.2	1.9	0.0	2.3	1.9
Idiopathic Pulmonary Fibrosis	59.7	69.5	67.4	63.6	64.8	57.7
Emphysema/COPD	11.9	13.4	18.2	22.7	15.6	24.0
Other	7.5	4.8	5.4	0.0	2.3	5.5
Missing	0.0	0.0	0.0	0.0	0.0	0.0



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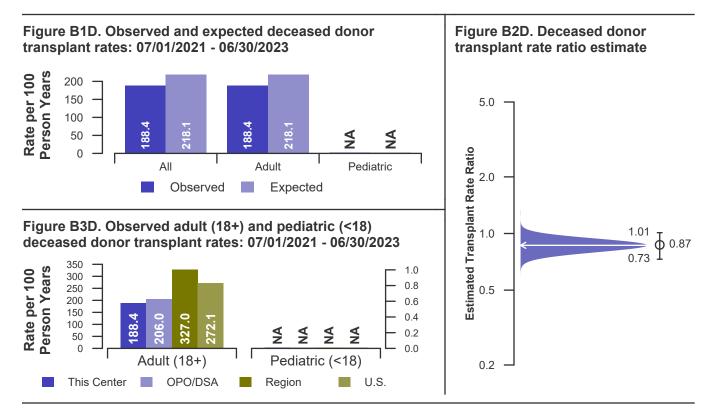
B. Waiting List Information

Table B4D. Deceased donor transplant rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	40	79	157	1,007
Person Years**	75.9	149.7	306.0	2,048.2
Removals for Transplant	143	307	996	5,501
Adult (18+) Candidates				
Count on waiting list at start*	40	79	157	991
Person Years**	75.9	147.1	303.4	2,002.7
Removals for transpant	143	303	992	5,449
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 July 1 or from the date of first wait listing until death, transplant, removal from the waiting list or June 30.





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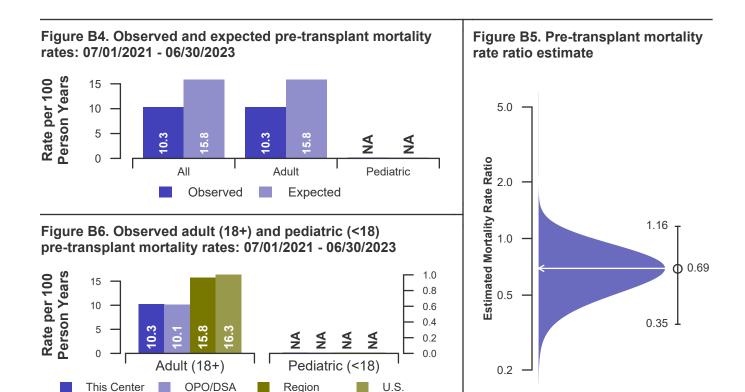
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Table B5. Pre-transplant mortality rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	40	79	157	1,007
Person Years**	87.7	172.2	365.8	2,400.3
Number of deaths	9	18	58	392
Adult (18+) Candidates				
Count on waiting list at start*	40	79	157	991
Person Years**	87.7	168.2	361.8	2,347.8
Number of deaths	9	17	57	383
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 July 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or June 30.





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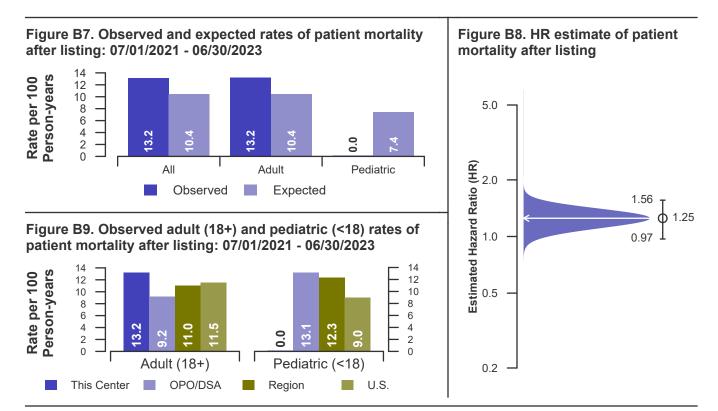
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Table B6. Rates of patient mortality after listing: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	392	904	2,967	17,370
Person-years*	516.8	1,217.1	3,826.8	22,271.4
Number of Deaths	68	113	421	2,559
Adult (18+) Patients				
Count at risk during the evaluation period	391	880	2,942	17,114
Person-years*	516.5	1,186.6	3,794.3	21,926.0
Number of Deaths	68	109	417	2,528
Pediatric (<18) Patients				
Count at risk during the evaluation period	1	24	25	256
Person-years*	0.3	30.5	32.5	345.3
Number of Deaths	0	4	4	31

* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2021, or from the date of first wait listing until death, reaching 5 years after listing or June 30, 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 listingCandidates registered on waiting list between 01/01/2021 and 12/31/2021

Waiting list status (survival status)		Center (N ns Since L			91) .isting	
	6	12	18	6	12	18
Alive on waiting list (%)	27.5	13.2	7.7	17.2	8.0	4.1
Died on the waiting list without transplant (%)	5.5	5.5	5.5	3.5	4.0	4.1
Removed without transplant (%):						
Condition worsened (status unknown)	1.1	1.1	1.1	3.5	4.2	4.7
Condition improved (status unknown)	2.2	2.2	3.3	0.7	1.1	1.3
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.2	0.2
Other	13.2	17.6	18.7	1.9	2.7	2.9
Transplant (living or deceased donor) (%):						
Functioning (alive)	48.4	54.9	44.0	67.8	68.7	44.5
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.1	0.1	0.1
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	2.2	5.5	9.9	4.5	8.5	12.0
Status Yet Unknown*	0.0	0.0	9.9	0.5	2.3	25.8
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.1	0.2	0.3
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	7.7	11.0	15.4	7.9	12.6	16.1
Total % known died or removed as unstable	8.8	12.1	16.5	11.5	16.8	20.8
Total % removed for transplant	50.5	60.4	63.7	72.9	79.7	82.4
Total % with known functioning transplant (alive)	48.4	54.9	44.0	67.8	68.7	44.5

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



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Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2017 and 06/30/2020

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν				3 years	Ν				3 years
All	183	17.5	62.8	67.2	71.0	9,268	33.3	74.9	79.9	81.1
Ethnicity/Race*										
White	125	20.8	69.6	72.0	74.4	6,953	34.4	77.4	81.9	83.0
African-American	10	20.0	70.0	80.0	80.0	980	29.7	68.7	74.4	76.2
Hispanic/Latino	31	6.5	38.7	48.4	61.3	1,005	31.2	67.7	73.5	75.3
Asian	17	11.8	52.9	58.8	58.8	260	27.7	61.9	69.6	70.4
Other	0					70	24.3	72.9	80.0	82.9
Unknown	0					0				
Age										
<2 years	0					30	16.7	60.0	60.0	60.0
2-11 years	0					45	8.9	46.7	53.3	55.6
12-17 years	0					117	41.0	68.4	70.1	70.1
18-34 years	25	20.0	48.0	52.0	56.0	779	31.5	71.4	75.4	76.5
35-49 years	26	15.4	57.7	57.7	57.7	1,090	33.3	72.0	76.6	77.9
50-64 years	89	11.2	62.9	68.5	74.2	4,080	31.2	73.5	79.5	81.1
65-69 years	33	21.2	69.7	75.8	78.8	2,091	35.0	78.3	82.9	83.8
70+ years	10	60.0	90.0	90.0	90.0	1,036	40.6	81.9	84.9	85.4
Gender										
Male	103	23.3	68.0	73.8	75.7	5,292	39.9	80.7	84.4	85.1
Female	80	10.0	56.2	58.8	65.0	3,976	24.6	67.3	73.8	75.8

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

 Candidates registered on the waiting list between 07/01/2017 and 06/30/2020

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν				3 years	Ν				3 years
All	183	17.5	62.8	67.2	71.0	9,268	33.3	74.9	79.9	81.1
Blood Type										
0	95	12.6	50.5	55.8	62.1	4,410	31.9	71.5	77.0	78.5
A	55	29.1	76.4	78.2	80.0	3,431	36.7	79.5	83.7	84.8
В	24	16.7	75.0	79.2	79.2	1,056	29.0	73.1	78.6	79.6
AB	9	0.0	77.8	88.9	88.9	371	31.3	78.7	81.9	81.9
Previous Transplant										
Yes	12	25.0	66.7	66.7	66.7	359	35.7	72.1	75.5	75.8
No	171	17.0	62.6	67.3	71.3	8,909	33.2	75.0	80.0	81.3
Primary Disease										
Congenital Disease	0					0				
Retransplant/Graft Failure	0					0				
Idiopathic Pulmonary Arterial Hypertension	19	0.0	15.8	15.8	21.1	645	27.4	58.3	62.0	64.2
Cystic Fibrosis	21	14.3	61.9	61.9	61.9	766	34.2	76.1	80.2	80.9
Idiopathic Pulmonary Fibrosis	104	24.0	67.3	72.1	76.0	5,566	38.4	78.6	82.3	83.1
Alpha-1-Antitrypsin Deficiency	0					0				
Emphysema/COPD	36	11.1	75.0	83.3	88.9	2,052	21.9	71.0	79.8	82.0
Other	3	0.0	66.7	66.7	66.7	239	26.4	65.3	70.7	73.2
Missing	0					0				



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Table B10. Time to transplant for waiting list candidates*Candidates registered on the waiting list between 07/01/2017 and 12/31/2022

		Months to T	ransplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.2	0.2	0.1	0.1
10th	0.4	0.3	0.2	0.2
25th	1.2	1.0	0.5	0.6
50th (median time to transplant)	5.5	4.2	1.7	1.9
75th	Not Observed	20.7	7.7	8.5

* 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 06/30/2023. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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Table B11. Offer Acceptance Practices: 07/01/2022 - 06/30/2023

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	921	2,452	5,169	63,520
Number of Acceptances	66	150	510	2,845
Expected Acceptances	32.4	84.4	273.7	2,844.2
Offer Acceptance Ratio*	1.98	1.76	1.86	1.00
95% Credible Interval**	[1.54, 2.47]			
PHS increased infectious risk	• • •			
Number of Offers	138	417	859	10,705
Number of Acceptances	14	32	102	509
Expected Acceptances	6.5	18.8	55.0	506.6
Offer Acceptance Ratio*	1.89	1.64	1.83	1.00
95% Credible Interval**	[1.08, 2.92]			
Donor was current smoker				
Number of Offers	57	179	339	6,567
Number of Acceptances	3	11	23	205
Expected Acceptances	1.4	4.5	10.3	206.7
Offer Acceptance Ratio*	1.48	1.99	2.04	0.99
95% Credible Interval**	[0.48, 3.02]			
Donor age >= 55				
Number of Offers	104	270	595	8,916
Number of Acceptances	10	19	55	326
Expected Acceptances	3.8	8.5	28.8	327.5
Offer Acceptance Ratio*	2.07	2.01	1.85	1.00
95% Credible Interval**	[1.07, 3.39]			
Hard-to-Place Lungs (Over 50 Offers)				
Number of Offers	198	504	1,062	19,874
Number of Acceptances	7	9	38	378
Expected Acceptances	1.6	4.7	19.7	388.8
Offer Acceptance Ratio*	2.49	1.64	1.84	0.97
95% Credible Interval**	[1.14, 4.36]			
Donor more than 500 miles away				
Number of Offers	445	1,269	2,461	25,214
Number of Acceptances	23	39	117	791
Expected Acceptances	10.4	29.7	76.8	806.1
Offer Acceptance Ratio*	2.01	1.29	1.51	0.98
95% Credible Interval**	[1.30, 2.88]			

* 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 ratio of 0.75 indicates a center accepts 25% fewer offers than is expected based on national offer acceptance practices).

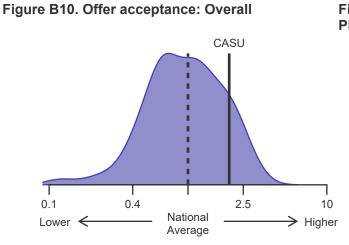
** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.54, 2.47], indicates the location of CASU's true offer acceptance ratio with 95% probability. The best estimate is 98% more likely to accept an offer compared to national acceptance behavior, but CASU's performance could plausibly range from 54% higher acceptance up to 147%

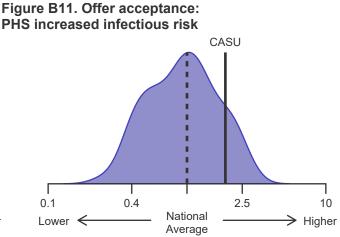


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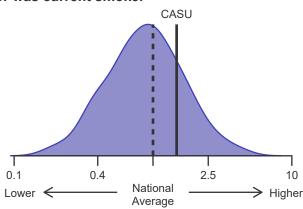
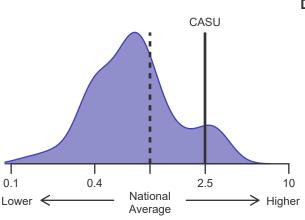
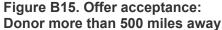
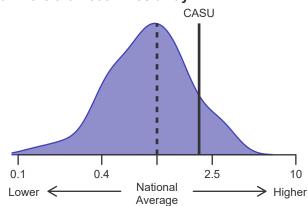


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance:

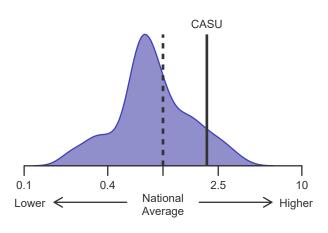






The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.

Figure B13. Offer acceptance: Donor age >= 55





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C. Transplant Information

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Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2022 and 06/30/2023

	Percei	Percentage in each category		
Characteristic	Center (N=69)	Region (N=519)	U.S. (N=2,894)	
Ethnicity/Race (%)*				
White	63.8	58.0	72.8	
African-American	1.4	4.6	8.7	
Hispanic/Latino	18.8	28.5	14.1	
Asian	14.5	7.5	3.5	
Other	1.4	1.3	0.9	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.0	0.1	
2-11 years	0.0	0.0	0.2	
12-17	0.0	0.4	0.6	
18-34	10.1	5.0	4.7	
35-49 years	10.1	12.5	10.9	
50-64 years	47.8	40.7	42.8	
65-69 years	17.4	24.9	26.6	
70+ years	14.5	16.6	14.1	
Gender (%)				
Male	59.4	57.4	59.1	
Female	40.6	42.6	40.9	

* 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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Table C2D. Deceased donor transplant recipient medical characteristicsPatients transplanted between 07/01/2022 and 06/30/2023

	Percentage in each category		
Characteristic	Center (N=69)	Region (N=519)	U.S. (N=2,894)
Blood Type (%)			
0	44.9	45.5	43.5
A	42.0	38.7	40.5
В	11.6	12.3	12.1
AB	1.4	3.5	3.9
Previous Transplant (%)			
Yes	8.7	3.3	3.1
No	91.3	96.7	96.9
Body Mass Index (%)			
0-20	20.3	16.6	14.9
21-25	27.5	33.7	34.1
26-30	39.1	36.2	36.8
31-35	13.0	10.8	12.3
36-40	0.0	1.2	0.9
41+	0.0	0.2	0.2
Unknown	0.0	1.3	0.8
Primary Disease (%)			
Idiopathic Pulmonary Arterial Hypertension	5.8	8.7	6.0
Cystic Fibrosis	10.1	2.9	3.1
Idiopathic Pulmonary Fibrosis	69.6	68.2	64.5
Emphysema/COPD	8.7	14.8	20.8
Other	5.8	5.4	5.5
Missing	0.0	0.0	0.1
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	71.0	67.6	70.4
Hospitalized	15.9	14.6	11.5
ICU	13.0	16.8	17.4
Unknown	0.0	1.0	0.7



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C. Transplant Information

Table C3D. Deceased donor characteristicsTransplants performed between 07/01/2022 and 06/30/2023

	Percentage in each category		
Donor Characteristic	Center (N=69)	Region (N=519)	U.S. (N=2,894)
Cause of Death (%)			
Deceased: Stroke	37.7	28.3	25.4
Deceased: MVA	14.5	14.6	13.1
Deceased: Other	47.8	57.0	61.5
Ethnicity/Race (%)*			
White	36.2	35.3	52.1
African-American	8.7	9.8	17.7
Hispanic/Latino	10.1	10.6	6.8
Asian	10.1	7.1	3.5
Other	1.4	2.3	0.9
Not Reported	33.3	34.9	19.0
Age (%)			
<2 years	0.0	0.0	0.1
2-11 years	0.0	0.4	0.5
12-17	2.9	4.0	5.8
18-34	40.6	40.1	41.8
35-49 years	34.8	38.2	33.6
50-64 years	21.7	16.8	16.9
65-69 years	0.0	0.6	1.1
70+ years	0.0	0.0	0.2
Gender (%)			
Male	65.2	65.5	59.6
Female	34.8	34.5	40.4
Blood Type (%)			
0	56.5	57.0	53.8
A	31.9	31.0	34.0
В	11.6	10.6	10.3
AB	0.0	1.3	1.9
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

Table C4D. Deceased donor transplant characteristicsTransplants performed between 07/01/2022 and 06/30/2023

	Percentage in each category		
Transplant Characteristic	Center (N=69)	Region (N=519)	U.S. (N=2,894)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	0.0	0.3
Deceased: 91-180 min	0.0	5.5	5.2
Deceased: 181-270 min	22.7	35.5	29.7
Deceased: 271-360 min	31.8	32.7	32.3
Deceased: 361+ min	45.5	25.8	31.8
Not Reported	0.0	0.5	0.7
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.3	1.1
Deceased: 91-180 min	2.1	1.3	0.8
Deceased: 181-270 min	4.3	13.6	8.7
Deceased: 271-360 min	29.8	33.4	28.6
Deceased: 361+ min	63.8	50.0	60.0
Not Reported	0.0	1.3	0.8
Procedure Type (%)			
Single organ	95.7	98.3	98.7
Multi organ	4.3	1.7	1.3
Donor Location (%)			
Local Donation Service Area (DSA)	31.9	41.8	24.6
Another Donation Service Area (DSA)	68.1	58.2	75.4
Median Time in Hospital After Transplant	31.5 Days	18.0 Days	20.0 Days



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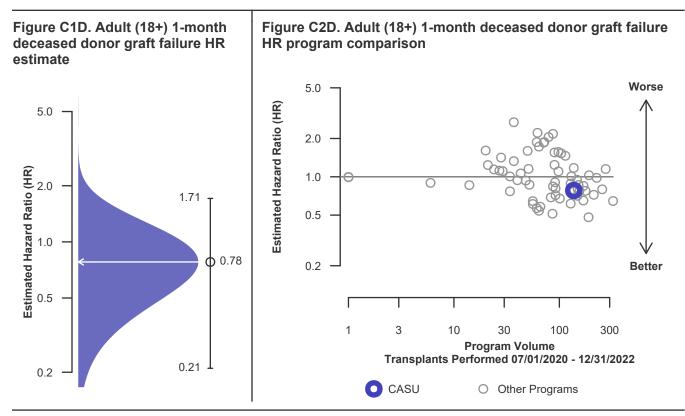
C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	137	6,357
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.54% [96.55%-100.00%]	97.44% [97.05%-97.83%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.74%	
Number of observed graft failures (including deaths) during the first month after transplant	2	163
Number of expected graft failures (including deaths) during the first month after transplant	3.13	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.21, 1.71]	

* 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, [0.21, 1.71], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 22% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 79% reduced risk up to 71% increased risk.





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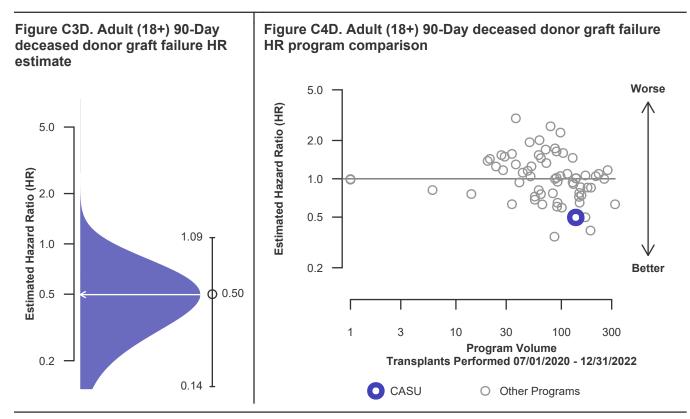
C. Transplant Information

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	137	6,357
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	98.54% [96.55%-100.00%]	95.11% [94.58%-95.64%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.68%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	311
Number of expected graft failures (including deaths) during the first 90 days after transplant	6.05	
Estimated hazard ratio*	0.50	
95% credible interval for the hazard ratio**	[0.14, 1.09]	

* 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, [0.14, 1.09], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 50% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 86% reduced risk up to 9% increased risk.





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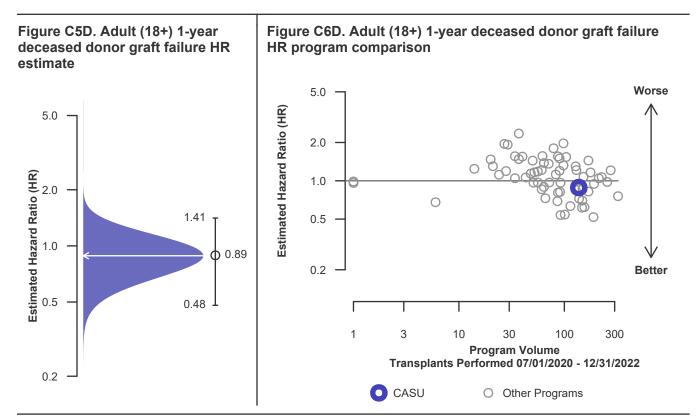
C. Transplant Information

Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	137	6,357
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	90.33% [85.23%-95.73%]	88.14% [87.31%-88.99%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	89.44%	
Number of observed graft failures (including deaths) during the first year after transplant	12	693
Number of expected graft failures (including deaths) during the first year after transplant	13.82	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.48, 1.41]	

* 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, [0.48, 1.41], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 11% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 52% reduced risk up to 41% increased risk.





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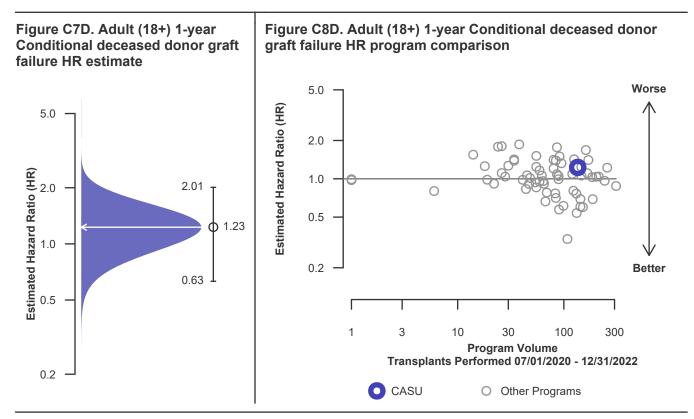
C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	135	6,041
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [3 (unadjusted for patient and donor characteristics)	s 91.67% 88.27%-95.73%]	92.68% [92.32%-93.05%]
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)	93.49%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	10	382
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	7.77	
Estimated hazard ratio*	1.23	
95% credible interval for the hazard ratio**	[0.63, 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, [0.63, 2.01], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 23% higher risk of graft failure compared to an average program, but CASU's performance could plausibly range from 37% reduced risk up to 101% increased risk.





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

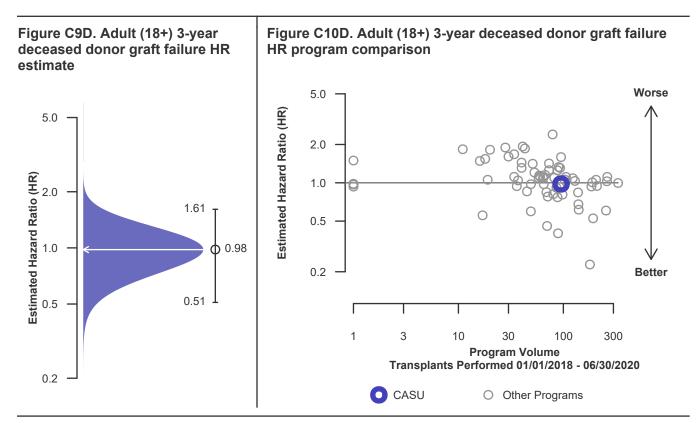
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	CASU	U.S.
Number of transplants evaluated	95	5,810
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	42.54% [10.59%-100.00%]	72.36% [67.83%-77.19%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	74.91%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	10	709
Number of expected graft failures (including deaths) during the first 3 years after transplant	10.26	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.51, 1.61]	

* 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, [0.51, 1.61], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but CASU's performance could plausibly range from 49% reduced risk up to 61% increased risk.





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Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2020-12/31/2022

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
07/01/2020-12/31/2022	07/01/2020-12/31/2022



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Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2020-12/31/2022

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
07/01/2020-12/31/2022	07/01/2020-12/31/2022



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Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2020-12/31/2022

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
07/01/2020-12/31/2022	07/01/2020-12/31/2022



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Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

> This center did not perform any transplants relevant to this table during 07/01/2020-12/31/2022

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
07/01/2020-12/31/2022	07/01/2020-12/31/2022



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Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020Deaths 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 01/01/2018-06/30/2020

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
01/01/2018-06/30/2020	01/01/2018-06/30/2020



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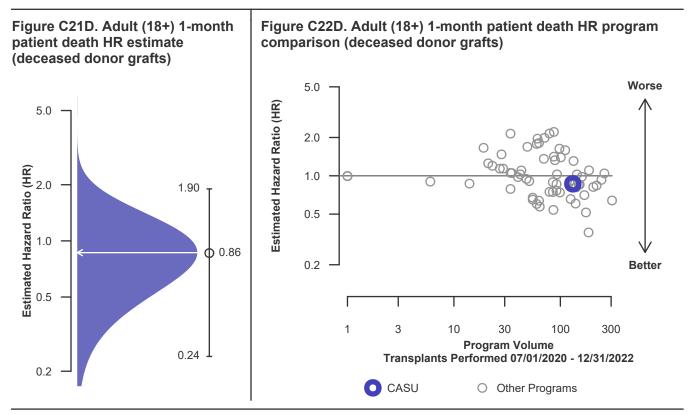
C. Transplant Information

Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	131	6,165
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.47% [96.40%-100.00%]	97.75% [97.38%-98.12%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.01%	
Number of observed deaths during the first month after transplant	2	139
Number of expected deaths during the first month after transplant	2.63	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.24, 1.90]	

* 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, 1.90], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 14% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 76% reduced risk up to 90% increased risk.





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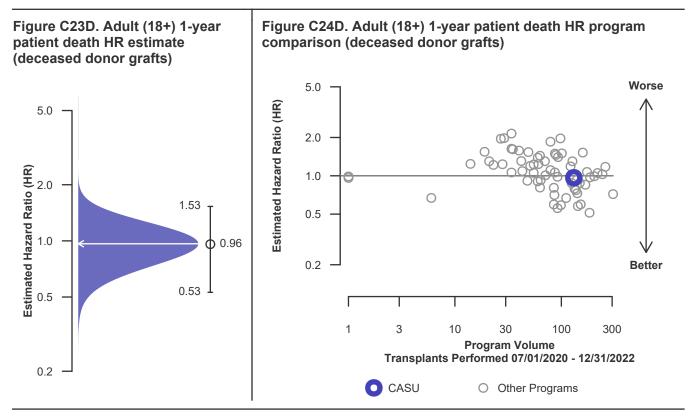
C. Transplant Information

Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	131	6,165
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	89.92% [84.63%-95.55%]	88.72% [87.90%-89.56%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	89.92%	
Number of observed deaths during the first year after transplant	12	641
Number of expected deaths during the first year after transplant	12.51	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.53, 1.53]	

* 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, [0.53, 1.53], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 47% reduced risk up to 53% increased risk.





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

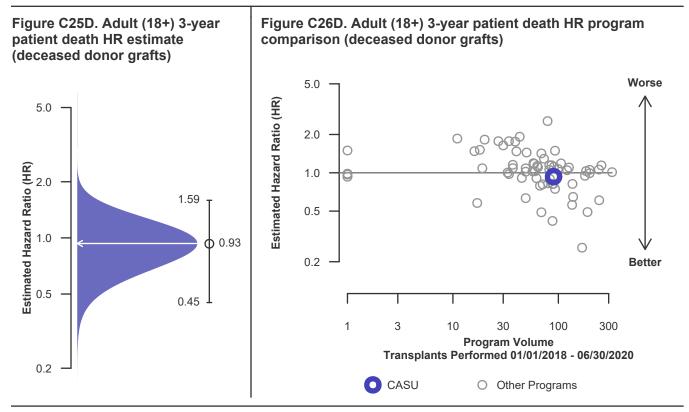
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	CASU	U.S.
Number of transplants evaluated	90	5,639
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	44.63% [11.13%-100.00%]	73.72% [69.13%-78.62%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	77.25%	
Number of observed deaths during the first 3 years after transplant	8	647
Number of expected deaths during the first 3 years after transplant	8.72	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.45, 1.59]	

* 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, [0.45, 1.59], indicates the location of CASU's true hazard ratio with 95% probability. The best estimate is 7% lower risk of patient death compared to an average program, but CASU's performance could plausibly range from 55% reduced risk up to 59% increased risk.





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Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2020-12/31/2022

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
07/01/2020-12/31/2022	07/01/2020-12/31/2022



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Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2020-12/31/2022

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
07/01/2020-12/31/2022	07/01/2020-12/31/2022



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 Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)</td>

 Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020

 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 01/01/2018-06/30/2020

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
01/01/2018-06/30/2020	01/01/2018-06/30/2020



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Table C21. Multi-organ transplant graft survival: 07/01/2020 - 12/31/2022

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transp Perfor CASU-TX1	med	Lun Graft Fa CASU-TX1	0	Estimate Graft Sເ CASU-TX1	ırvival
Heart-Lung Kidney Lung Liver-Lung	27 4 2	114 41 39	4 1 0	21 6 6	85.2% 66.7% 100.0%	81.6% 83.7% 83.9%

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 07/01/2020 - 12/31/2022

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transp Perfor CASU-TX1	med	Patient D CASU-TX1	Deaths USA	Estima Patient S CASU-TX1	
Heart-Lung Kidney Lung Liver-Lung	27 4 2	114 41 39	4 1 0	21 6 6	85.2% 75.0% 100.0%	81.6% 85.4% 84.6%

Pediatric (<18) Transplants

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