

SCIENTIFIC Stanford Health Care REGISTRY OF Center Code: CASU

TRANSPLANT

RECIPIENTS

Center Code: CASU Transplant Program (Organ): Heart-Lung Release Date: January 7, 2025 Based on Data Available: October 31, 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 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, January 2024 and July 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 January 2025 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 2025 reporting cycle. These changes will remain in force beyond the January 2025 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 7/1/2021-12/31/2023, follow-up through 6/30/2024.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-6/30/2021; follow-up through 6/30/2024.

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

Days after listing (and before transplant) between 7/1/2022 and 6/30/2024.



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

Candidates on the waitlist 7/1/2022-6/30/2024.

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

Evaluation period: 7/1/2022-6/30/2024.

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

Offers received 7/1/2023-6/30/2024.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 7, 2025. 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 2025.

As with the July 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 heart-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 771.7 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 07/01/2018 and 12/31/2023. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.1 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2024 to calculate a particular percentile of transplant times.

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.

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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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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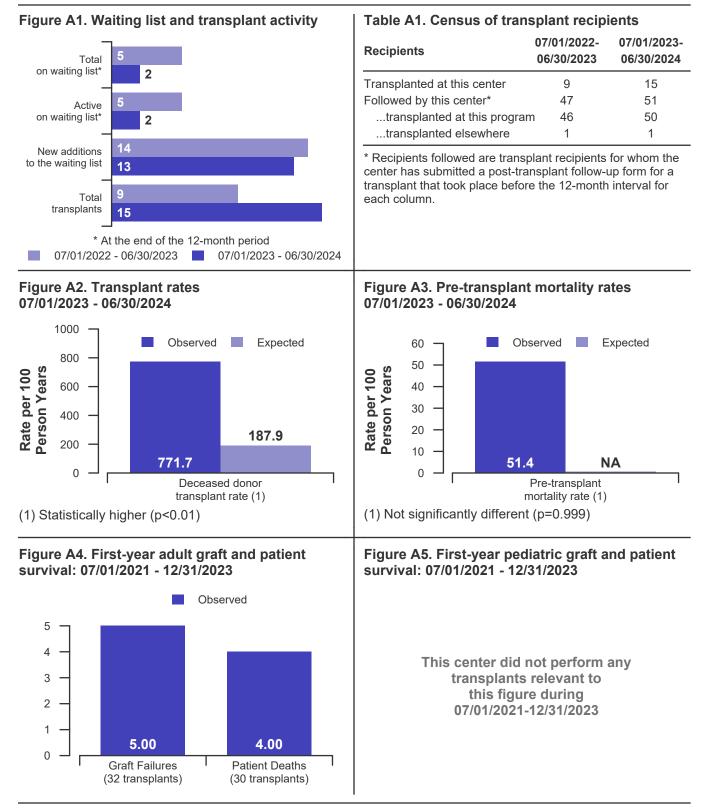
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#### A. Program Summary





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

#### Table B1. Waiting list activity summary: 07/01/2022 - 06/30/2024

		ts for enter	Activity for 07/01/2023 to 06/30/2024 as percent of registrants on waiting lis on 07/01/2023				
Waiting List Registrations	07/01/2022- 06/30/2023	07/01/2023- 06/30/2024	This Center (%)	OPTN Region (%)	U.S. (%)		
On waiting list at start Additions	3	5	100.0	100.0	100.0		
New listings at this center	14	13	260.0	210.0	232.4		
Removals							
Transferred to another center	0	0	0.0	0.0	2.7		
Received living donor transplant*	0	0	0.0	0.0	0.0		
Received deceased donor transplant*	9	15	300.0	220.0	154.1		
Died	0	1	20.0	10.0	13.5		
Transplanted at another center	0	0	0.0	0.0	0.0		
Deteriorated	2	0	0.0	10.0	8.1		
Recovered	0	0	0.0	10.0	18.9		
Other reasons	1	0	0.0	10.0	24.3		
On waiting list at end of period	5	2	40.0	50.0	110.8		

\* 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 07/01/2023 and 06/30/2024

Demographic Characteristic		ting List Regis 023 to 06/30/20		All Waiting List Registrations on 06/30/2024 (%)			
	This Center (N=13)	OPTN Region (N=21)	U.S. (N=86)	This Center (N=2)	OPTN Region (N=5)	U.S. (N=41)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	46.2	38.1	52.3	50.0	40.0	58.5	
African-American	0.0	14.3	24.4	0.0	0.0	17.1	
Hispanic/Latino	15.4	14.3	10.5	50.0	40.0	17.1	
Asian	23.1	19.0	7.0	0.0	0.0	2.4	
Other	7.7	9.5	3.5	0.0	20.0	4.9	
Unknown	7.7	4.8	2.3	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	0.0	0.0	0.0	0.0	0.0	
2-11 years	0.0	0.0	0.0	0.0	0.0	2.4	
12-17 years	7.7	9.5	4.7	0.0	0.0	4.9	
18-34 years	30.8	28.6	20.9	100.0	60.0	17.1	
35-49 years	15.4	9.5	27.9	0.0	20.0	36.6	
50-64 years	46.2	52.4	41.9	0.0	20.0	34.1	
65-69 years	0.0	0.0	4.7	0.0	0.0	4.9	
70+ years	0.0	0.0	0.0	0.0	0.0	0.0	
Gender (%)							
Male	61.5	61.9	59.3	50.0	60.0	61.0	
Female	38.5	38.1	40.7	50.0	40.0	39.0	

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

## Table B3. Medical characteristics of waiting list candidatesCandidates registered on the waiting list between 07/01/2023 and 06/30/2024

Medical Characteristic	07/01/20	ting List Regis 023 to 06/30/20		All Waiting List Registrations on 06/30/2024 (%)			
	This Center (N=13)	OPTN Region (N=21)	U.S. (N=86)	This Center (N=2)	OPTN Region (N=5)	U.S. (N=41)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	30.8	42.9	44.2	50.0	80.0	58.5	
A	38.5	33.3	38.4	0.0	0.0	29.3	
В	30.8	23.8	16.3	0.0	0.0	7.3	
AB	0.0	0.0	1.2	50.0	20.0	4.9	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	0.0	0.0	1.2	0.0	0.0	2.4	
No	100.0	100.0	98.8	100.0	100.0	97.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Congenital Disease	38.5	33.3	32.6	100.0	80.0	48.8	
Retransplant/Graft Failure	0.0	0.0	0.0	0.0	0.0	0.0	
Idiopathic Pulmonary Arterial Hypertension	0.0	0.0	0.0	0.0	0.0	0.0	
Cystic Fibrosis	0.0	0.0	0.0	0.0	0.0	0.0	
Idiopathic Pulmonary Fibrosis	0.0	0.0	0.0	0.0	0.0	0.0	
Emphysema/COPD	0.0	0.0	0.0	0.0	0.0	0.0	
Other	61.5	66.7	67.4	0.0	20.0	51.2	
Missing	0.0	0.0	0.0	0.0	0.0	0.0	



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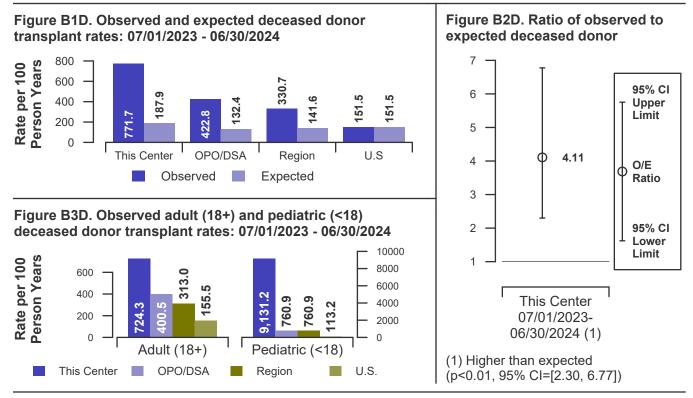
### **B. Waiting List Information**

#### Table B4D. Deceased donor transplant rates: 07/01/2023 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	5	8	10	37
Person Years**	1.9	4.3	6.7	37.6
Removals for Transplant	15	18	22	57
Adult (18+) Candidates				
Count on waiting list at start*	5	7	9	32
Person Years**	1.9	4.0	6.4	34.1
Removals for transpant	14	16	20	53
Pediatric (<18) Candidates				
Count on waiting list at start*	0	1	1	5
Person Years**	0.0	0.3	0.3	3.5
Removals for transplant	1	2	2	4

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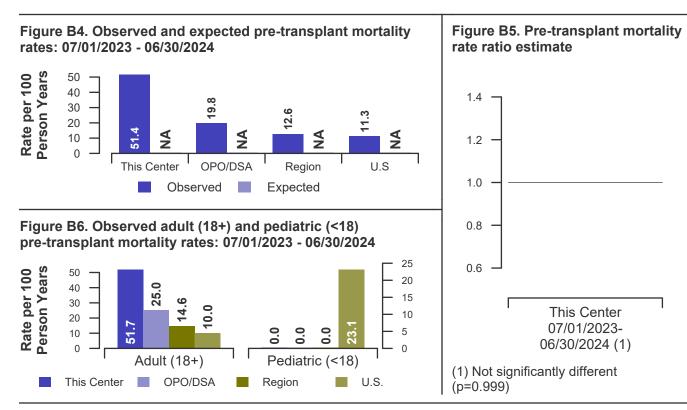
### **B. Waiting List Information**

#### Table B5. Pre-transplant mortality rates: 07/01/2023 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	5	8	10	37
Person Years**	1.9	5.1	7.9	44.4
Number of deaths	1	1	1	5
Adult (18+) Candidates				
Count on waiting list at start*	5	7	9	32
Person Years**	1.9	4.0	6.9	40.0
Number of deaths	1	1	1	4
Pediatric (<18) Candidates				
Count on waiting list at start*	0	1	1	5
Person Years**	0.0	1.1	1.1	4.3
Number of deaths	0	0	0	1

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

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Table B6. Rates of patient mortality after listing: 07/01/2022 - 06/30/2024

Not calculated for Heart-Lung programs

Figure B7. Observed and expected rates of patient mortality after listing: 07/01/2022 - 06/30/2024	Figure B8. HR estimate of patient mortality after listing
Not calculated for Heart-Lung programs	
Figure B9. Observed adult (18+) and pediatric (<18) rates of patient mortality after listing: 07/01/2022 - 06/30/2024	ot calculated for Heart-Lung program
Not calculated for Heart-Lung programs	



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

## Table B7. Waiting list candidate status after listingCandidates registered on waiting list between 01/01/2022 and 12/31/2022

Waiting list status (survival status)		Center (N s Since L	,		J.S. (N=76 ns Since L	
	6	12	18	6	12	18
Alive on waiting list (%)	25.0	16.7	8.3	22.4	13.2	6.6
Died on the waiting list without transplant (%)	0.0	0.0	0.0	5.3	6.6	7.9
Removed without transplant (%):						
Condition worsened (status unknown)	16.7	16.7	16.7	6.6	6.6	6.6
Condition improved (status unknown)	0.0	0.0	0.0	3.9	3.9	5.3
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	5.3	5.3	6.6
Transplant (living or deceased donor) (%):						
Functioning (alive)	41.7	50.0	50.0	47.4	50.0	34.2
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	16.7	16.7	16.7	7.9	13.2	14.5
Status Yet Unknown*	0.0	0.0	8.3	1.3	1.3	17.1
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.0	0.0	1.3
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	16.7	16.7	16.7	13.2	19.7	22.4
Total % known died or removed as unstable	33.3	33.3	33.3	19.7	26.3	28.9
Total % removed for transplant	58.3	66.7	75.0	56.6	64.5	65.8
Total % with known functioning transplant (alive)	41.7	50.0	50.0	47.4	50.0	34.2

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



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

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2018 and 06/30/2021

Characteristic		Percent transplanted at time periods since listing This Center United States								
	Ν				3 years	Ν				3 years
All	27	25.9	74.1	77.8	77.8	215	22.3	59.5	63.7	64.2
Ethnicity/Race*										
White	20	20.0	70.0	75.0	75.0	121	20.7	61.2	64.5	64.5
African-American	1	100.0	100.0	100.0	100.0	49	32.7	61.2	67.3	69.4
Hispanic/Latino	3	33.3	100.0	100.0	100.0	29	17.2	55.2	62.1	62.1
Asian	3	33.3	66.7	66.7	66.7	14	14.3	57.1	57.1	57.1
Other	0					2	0.0	0.0	0.0	0.0
Unknown	0					0				
Age										
<2 years	0					6	0.0	16.7	16.7	16.7
2-11 years	0					9	0.0	22.2	22.2	22.2
12-17 years	0					13	30.8	61.5	61.5	61.5
18-34 years	8	50.0	75.0	87.5	87.5	42	23.8	61.9	66.7	66.7
35-49 years	12	16.7	75.0	75.0	75.0	61	26.2	62.3	68.9	70.5
50-64 years	7	14.3	71.4	71.4	71.4	80	22.5	65.0	67.5	67.5
65-69 years	0					4	0.0	25.0	50.0	50.0
70+ years	0					0				
Gender										
Male	11	9.1	72.7	81.8	81.8	109	26.6	61.5	65.1	66.1
Female	16	37.5	75.0	75.0	75.0	106	17.9	57.5	62.3	62.3

\* 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 07/01/2018 and 06/30/2021

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν				3 years	Ν				3 years
All	27	25.9	74.1	77.8	77.8	215	22.3	59.5	63.7	64.2
Blood Type										
0	15	26.7	53.3	60.0	60.0	100	13.0	47.0	52.0	53.0
A	9	11.1	100.0	100.0	100.0	73	28.8	75.3	79.5	79.5
В	3	66.7	100.0	100.0	100.0	36	36.1	63.9	66.7	66.7
AB	0					6	16.7	50.0	50.0	50.0
Previous Transplant										
Yes	1	0.0	100.0	100.0	100.0	5	0.0	60.0	60.0	60.0
No	26	26.9	73.1	76.9	76.9	210	22.9	59.5	63.8	64.3
Primary Disease										
Congenital Disease	0					0				
Retransplant/Graft Failure	1	0.0	100.0	100.0	100.0	2	0.0	100.0	100.0	100.0
Idiopathic Pulmonary Arterial Hypertension	0					0				
Cystic Fibrosis	0					0				
Idiopathic Pulmonary Fibrosis	0					0				
Alpha-1-Antitrypsin Deficiency	0					0				
Emphysema/COPD	0					0				
Other	26	26.9	73.1	76.9	76.9	213	22.5	59.2	63.4	63.8
Missing	0					0				



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

TRANSPLANT

RECIPIENTS

# Table B10. Time to transplant for waiting list candidates\*Candidates registered on the waiting list between 07/01/2018 and 12/31/2023

	Months to Transplant**							
Percentile	Center	OPO/DSA	Region	U.S.				
5th	0.1	0.1	0.1	0.1				
10th	0.2	0.2	0.2	0.2				
25th	0.4	0.3	0.4	0.8				
50th (median time to transplant)	1.8	2.6	2.6	4.4				
75th	10.6	13.5	16.6	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 06/30/2024. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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

# Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2023 and 06/30/2024

	Percentage in each category					
Characteristic	Center (N=15)	Region (N=22)	U.S. (N=57)			
Ethnicity/Race (%)*						
White	53.3	45.5	49.1			
African-American	0.0	13.6	26.3			
Hispanic/Latino	13.3	9.1	10.5			
Asian	20.0	18.2	8.8			
Other	6.7	9.1	3.5			
Unknown	6.7	4.5	1.8			
Age (%)						
<2 years	0.0	0.0	0.0			
2-11 years	0.0	0.0	0.0			
12-17	6.7	9.1	7.0			
18-34	20.0	22.7	24.6			
35-49 years	26.7	22.7	24.6			
50-64 years	46.7	45.5	40.4			
65-69 years	0.0	0.0	3.5			
70+ years	0.0	0.0	0.0			
Gender (%)						
Male	60.0	54.5	52.6			
Female	40.0	45.5	47.4			

\* 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**

TRANSPLANT

#### Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2023 and 06/30/2024

	Percentage in each category		
Characteristic	Center (N=15)	Region (N=22)	U.S. (N=57)
Blood Type (%)			
0	40.0	40.9	43.9
A	40.0	36.4	40.4
В	20.0	22.7	15.8
AB	0.0	0.0	0.0
Previous Transplant (%)			
Yes	6.7	4.5	3.5
No	93.3	95.5	96.5
Body Mass Index (%)			
0-20	46.7	40.9	26.3
21-25	26.7	31.8	43.9
26-30	26.7	22.7	22.8
31-35	0.0	4.5	7.0
36-40	0.0	0.0	0.0
41+	0.0	0.0	0.0
Unknown	0.0	0.0	0.0
Primary Disease (%)			
Congenital Disease	33.3	22.7	22.8
Retransplant/Graft Failure	0.0	0.0	0.0
Idiopathic Pulmonary Arterial Hypertension	40.0	45.5	31.6
Cystic Fibrosis	0.0	0.0	0.0
Idiopathic Pulmonary Fibrosis	6.7	13.6	19.3
Emphysema/COPD	0.0	0.0	0.0
Other	20.0	18.2	26.3
Missing	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	33.3	40.9	24.6
Hospitalized	33.3	27.3	21.1
ICU	33.3	31.8	54.4
Unknown	0.0	0.0	0.0



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#### C. Transplant Information

# Table C3D. Deceased donor characteristicsTransplants performed between 07/01/2023 and 06/30/2024

	Percentage in each category		
Donor Characteristic	Center (N=15)	Region (N=22)	U.S. (N=57)
Cause of Death (%)			
Deceased: Stroke	26.7	18.2	15.8
Deceased: MVA	6.7	4.5	10.5
Deceased: Other	66.7	77.3	73.7
Ethnicity/Race (%)*			
White	53.3	50.0	57.9
African-American	6.7	4.5	14.0
Hispanic/Latino	33.3	36.4	24.6
Asian	6.7	9.1	3.5
Other	0.0	0.0	0.0
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	0.0
2-11 years	0.0	0.0	0.0
12-17	0.0	4.5	5.3
18-34	40.0	50.0	57.9
35-49 years	40.0	31.8	28.1
50-64 years	20.0	13.6	8.8
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	66.7	72.7	54.4
Female	33.3	27.3	45.6
Blood Type (%)			
0	73.3	68.2	56.1
A	26.7	27.3	35.1
В	0.0	4.5	8.8
AB	0.0	0.0	0.0
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**

TRANSPLANT

RECIPIENTS

# Table C4D. Deceased donor transplant characteristicsTransplants performed between 07/01/2023 and 06/30/2024

	Percentage in each category		
Transplant Characteristic	Center (N=15)	Region (N=22)	U.S. (N=57)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	0.0	0.0
Deceased: 91-180 min	20.0	33.3	36.4
Deceased: 181-270 min	60.0	44.4	45.5
Deceased: 271-360 min	20.0	11.1	9.1
Deceased: 361+ min	0.0	11.1	9.1
Not Reported	0.0	0.0	0.0
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.0	0.0
Deceased: 91-180 min	0.0	0.0	4.3
Deceased: 181-270 min	40.0	30.8	58.7
Deceased: 271-360 min	50.0	61.5	32.6
Deceased: 361+ min	10.0	7.7	4.3
Not Reported	0.0	0.0	0.0
Donor Location (%)			
Local Donation Service Area (DSA)	33.3	40.9	19.3
Another Donation Service Area (DSA)	66.7	59.1	80.7
Median Time in Hospital After Transplant	26.0 Days	24.0 Days	28.0 Days



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## **C. Transplant Information**

#### Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	32	124
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	90.62% [81.07%-100.00%]	94.35% [90.38%-98.51%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)*	%	
Number of observed graft failures (including deaths) during the first month after transplant	3	7
Number of expected graft failures (including deaths) during the first month after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the bazard ratio, and the credible interval are not calc	culated for adult (18+) recipients	

The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

Figure C1D. Adult (18+) 1-month deceased donor graft failure HR estimate	Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison
Expected graft failures were not calculated	Expected graft failures were not calculated



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## **C. Transplant Information**

#### Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	32	124
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	87.50% [76.76%-99.74%]	89.43% [84.16%-95.03%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)*	%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	4	13
Number of expected graft failures (including deaths) during the first 90 days after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the hazard ratio, and the credible interval are not calc	culated for adult (18+) recipients.	

The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

Figure C3D. Adult (18+) 90-Day deceased donor graft failure HR estimate	Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison
Expected graft failures were not calculated	Expected graft failures were not calculated



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## **C. Transplant Information**

#### Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	32	124
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [70.86%-98.00%]	82.93% [76.33%-90.09%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)*	%	
Number of observed graft failures (including deaths) during the first year after transplant	5	20
Number of expected graft failures (including deaths) during the first year after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the bazard ratio, and the credible interval are not cal	Iculated for adult (18+) recipients	

The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

Figure C5D. Adult (18+) 1-year deceased donor graft failure HR estimate	Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison
Expected graft failures were not calculated	Expected graft failures were not calculated



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### **C. Transplant Information**

#### Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	CASU	U.S.
Number of transplants evaluated	28	109
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [95% C	95.24% 92.31%-98.26%]	92.72% [90.70%-94.80%]
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)*	%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	7
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for a	adult (18+) recipients.	

Figure C7D. Adult (18+) 1-year Conditional deceased donor graft failure HR estimate	Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison
Expected graft failures	Expected graft failures
were not calculated	were not calculated



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## C. Transplant Information

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

Simultaneous HL transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 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	18	94
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	62.61% [38.20%-100.00%]	66.62% [55.45%-80.03%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)*	%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	4	22
Number of expected graft failures (including deaths) during the first 3 years after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the bazard ratio, and the credible interval are not cal	culated for adult (18+) recipients	

\* The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

Figure C9D. Adult (18+) 3-year deceased donor graft failure HR estimate	Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison
Expected graft failures	Expected graft failures
were not calculated	were not calculated



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### C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

Pediatric data is not reported

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
Pediatric data is not reported	Pediatric data is not reported



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### C. Transplant Information

Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft</th>Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

Pediatric data is not reported

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
Pediatric data is not reported	Pediatric data is not reported



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### C. Transplant Information

Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

Pediatric data is not reported

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
Pediatric data is not reported	Pediatric data is not reported



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### C. Transplant Information

Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

Pediatric data is not reported

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
Pediatric data is not reported	Pediatric data is not reported



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### C. Transplant Information

Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Simultaneous HL transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021Deaths and retransplants are considered graft failuresFollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

Pediatric data is not reported

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
Pediatric data is not reported	Pediatric data is not reported



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## C. Transplant Information

#### Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	CASU	U.S.
Number of transplants evaluated	30	122
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	90.00% [79.88%-100.00%]	94.26% [90.22%-98.48%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)*	%	
Number of observed deaths during the first month after transplant	3	7
Number of expected deaths during the first month after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of patient deaths, the hazard ratio, and the credible interval are not c	alculated for adult (18+) recipients.	

Figure C21D. Adult (18+) 1-month patient death HR estimate (deceased donor grafts)	Figure C22D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)
Expected patient deaths	Expected patient deaths
were not calculated	were not calculated



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## **C. Transplant Information**

#### Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023 **Retransplants excluded**

	CASU	U.S.
Number of transplants evaluated	30	122
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [73.56%-99.87%]	83.67% [77.17%-90.72%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)*	%	
Number of observed deaths during the first year after transplant	4	19
Number of expected deaths during the first year after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of patient deaths, the hazard ratio, and the credible interval are not o	calculated for adult (18+) recipients.	

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Figure C23D. Adult (18+) 1-year patient death HR estimate (deceased donor grafts)	Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)
Expected patient deaths	Expected patient deaths
were not calculated	were not calculated



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## **C. Transplant Information**

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

Simultaneous HL transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 **Retransplants excluded** 

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

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020	CASU	U.S.
Number of transplants evaluated	17	93
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	62.39% [38.00%-100.00%]	66.71% [55.62%-80.02%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)*	%	
Number of observed deaths during the first 3 years after transplant	4	22
Number of expected deaths during the first 3 years after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of patient deaths, the hazard ratio, and the credible interval are not calculate	d for adult (18+) recipients.	

ns, the hazard ratio, and the credible interval are not calculated for adult (18+) recipient

Figure C25D. Adult (18+) 3-year patient death HR estimate (deceased donor grafts)	Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)
Expected patient deaths	Expected patient deaths
were not calculated	were not calculated



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### C. Transplant Information

Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th>Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023Retransplants excluded

Pediatric data is not reported

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)
Pediatric data is not reported	Pediatric data is not reported



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### C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</th>Simultaneous HL transplants performed between 07/01/2021 and 12/31/2023Retransplants excluded

Pediatric data is not reported

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)
Pediatric data is not reported	Pediatric data is not reported



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### C. Transplant Information

Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients) Simultaneous HL transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

Pediatric data is not reported

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)
Pediatric data is not reported	Pediatric data is not reported