

Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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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, July 2024 and January 2025. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the July 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 July 2025 reporting cycle. These changes will remain in force beyond the July 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 1/1/2022-6/30/2024, follow-up through 12/31/2024.

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2021; follow-up through 12/31/2024.

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

Days after listing (and before transplant) between 1/1/2023 and 12/31/2024.



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

COVID-19 Guide

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

Candidates on the waitlist 1/1/2023-12/31/2024.

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

Evaluation period: 1/1/2023-12/31/2024.

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

Offers received 1/1/2024-12/31/2024.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 8, 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 January 2026.

As with the January 2025 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 transplant program at Duke University Hospital. 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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SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

User Guide

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 283.8 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 01/01/2019 and 06/30/2024. 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 12/31/2024 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.



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

User Guide

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

Table of Contents

Section	Page
COVID-19 Guide	i
User Guide	iii
A. Program Summary	
Program Summary	1
B. Waiting List Information	
Waiting list activity	2
Demographic characteristics of waiting list candidates	3
Medical characteristics of waiting list candidates	4
Deceased donor transplant rates	5
Pre-transplant mortality rates (formerly called Waiting list mortality rates)	6
Patient survival from listing	7
Waiting list candidate status after listing	8
Percent of candidates with deceased donor transplants: demographic characterist	ics 9
Percent of candidates with deceased donor transplants: medical characteristics	10
Time to transplant for waiting list candidates	11
Offer acceptance practices	12
C. Transplant Information	
Deceased donor transplant recipient demographic characteristics	14
Deceased donor transplant recipient medical characteristics	15
Deceased donor characteristics	16
Deceased donor transplant characteristics	17
Deceased donor graft survival	18
Deceased donor patient survival	28
Multi-organ transplant graft survival	34
Multi-organ transplant patient survival	34



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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

A. Program Summary

Figure A1. Waiting list and transplant activity

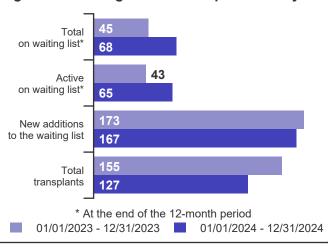


Table A1. Census of transplant recipients

Recipients	01/01/2023- 12/31/2023	01/01/2024- 12/31/2024
Transplanted at this center	155	127
Followed by this center*	771	850
transplanted at this program	n 722	799
transplanted elsewhere	49	51

^{*} Recipients followed are transplant recipients for whom the center has submitted a post-transplant follow-up form for a transplant that took place before the 12-month interval for each column.

Figure A2. Transplant rates 01/01/2023 - 12/31/2024

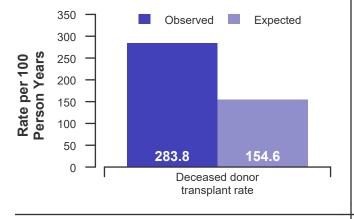


Figure A3. Pre-transplant mortality rates 01/01/2023 - 12/31/2024

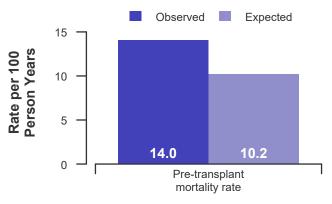


Figure A4. First-year adult graft and patient survival: 01/01/2022 - 06/30/2024

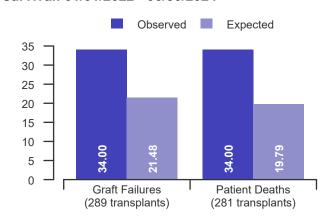
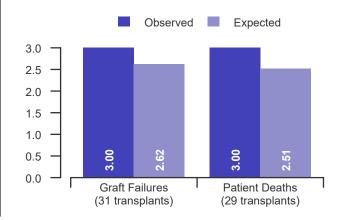


Figure A5. First-year pediatric graft and patient survival: 01/01/2022 - 06/30/2024





Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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

Table B1. Waiting list activity summary: 01/01/2023 - 12/31/2024

		its for center	Activity for 01/01/2024 to 12/31/2024 as percent of registrants on waiting liston 01/01/2024			
Waiting List Registrations	01/01/2023- 12/31/2023	01/01/2024- 12/31/2024	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	46	45	100.0	100.0	100.0	
New listings at this center	173	167	371.1	231.8	178.4	
Removals						
Transferred to another center	0	0	0.0	3.3	3.5	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	155	127	282.2	178.8	136.6	
Died	8	6	13.3	6.8	6.3	
Transplanted at another center	0	0	0.0	2.8	1.3	
Deteriorated	1	1	2.2	6.3	7.2	
Recovered	4	4	8.9	7.3	5.9	
Other reasons	6	6	13.3	11.4	9.8	
On waiting list at end of period	45	68	151.1	115.2	107.8	

^{*} 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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Based on Data Available: April 30, 2025

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

Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2024 and 12/31/2024

Domographia Characteristic		ting List Regis 024 to 12/31/20		All Waiting List Registrations on 12/31/2024 (%)			
Demographic Characteristic	This Center (N=167)	OPTN Region (N=918)	U.S. (N=5,972)	This Center (N=68)	OPTN Region (N=456)	U.S. (N=3,609)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	47.3	54.6	51.7	38.2	51.8	52.5	
African-American	44.9	37.9	26.6	55.9	42.8	28.5	
Hispanic/Latino	4.2	3.4	13.4	2.9	2.6	13.0	
Asian	1.8	1.7	4.6	1.5	1.1	3.1	
Other	0.6	1.5	1.3	1.5	1.5	1.6	
Unknown	1.2	0.9	2.4	0.0	0.2	1.3	
Age (%)							
<2 years	3.0	4.7	4.4	4.4	5.9	5.3	
2-11 years	4.2	3.8	3.9	8.8	6.8	7.1	
12-17 years	1.8	3.4	3.7	4.4	3.5	3.4	
18-34 years	13.8	9.9	9.0	7.4	7.9	9.5	
35-49 years	22.2	19.7	18.4	26.5	23.9	20.5	
50-64 years	47.9	45.1	42.5	44.1	43.2	42.9	
65-69 years	6.6	12.2	14.3	4.4	8.1	9.9	
70+ years	0.6	1.2	3.9	0.0	0.7	1.3	
Gender (%)							
Male	66.5	70.8	71.7	79.4	78.3	75.4	
Female	33.5	29.2	28.3	20.6	21.7	24.6	

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



Center Code: NCDU

Transplant Program (Organ): Heart

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Based on Data Available: April 30, 2025

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

Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2024 and 12/31/2024

Medical Characteristic		ting List Regi 024 to 12/31/2			ing List Regis n 12/31/2024 (ʻ		
medical Characteristic	This Center (N=167)	OPTN Region (N=918)	U.S. (N=5,972)	This Center (N=68)	OPTN Region (N=456)		
AII (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	53.3	47.3	45.2	76.5	63.8	60.5	
A	29.3	33.8	35.7	13.2	24.8	26.9	
В	15.6	15.0	15.2	8.8	9.6	10.9	
AB	1.8	3.9	3.9	1.5	1.8	1.7	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	0.6	2.7	3.1	2.9	3.3	3.7	
No	99.4	97.3	96.9	97.1	96.7	96.3	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Cardiomyopathy	64.7	60.3	59.3	60.3	50.7	55.9	
Coronary Artery Disease	23.4	24.9	24.3	20.6	27.0	23.9	
Retransplant/Graft Failure	0.6	2.4	2.8	2.9	2.9	3.1	
Valvular Heart Disease	0.6	0.7	1.1	1.5	0.7	8.0	
Congenital Heart Disease	9.0	10.6	10.2	13.2	16.4	14.5	
Other	1.8	1.1	2.3	1.5	2.4	1.7	
Missing	0.0	0.0	0.0	0.0	0.0	0.0	
Medical Urgency Status at Listi	ng (%)						
Status 1A	5.4	8.1	7.7	5.9	6.6	6.5	
Status 1B	1.8	2.2	2.3	4.4	5.3	5.3	
Status 2	1.8	1.5	1.7	7.4	5.3	6.5	
Adult Status 1	2.4	5.8	6.7	0.0	0.7	0.7	
Adult Status 2	37.1	28.3	31.6	2.9	4.2	6.6	
Adult Status 3	10.8	9.0	8.3	5.9	7.0	5.0	
Adult Status 4	28.7	30.1	25.7	50.0	48.2	43.4	
Adult Status 5	5.4	3.6	2.9	10.3	5.5	4.7	
Adult Status 6	6.6	11.0	12.4	13.2	16.9	20.0	
Temporarily Inactive	0.0	0.4	0.7	0.0	0.4	1.4	



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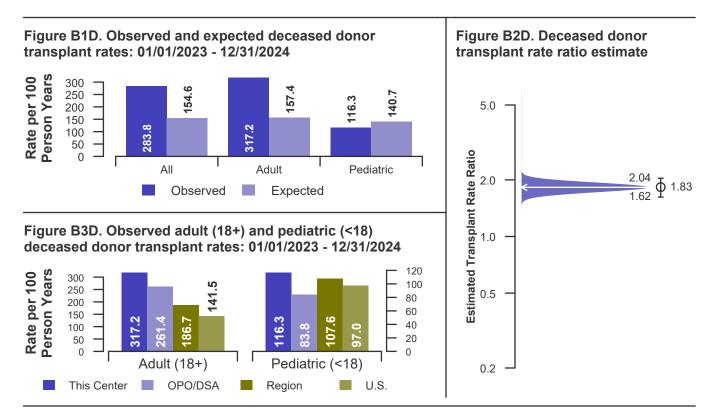
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Table B4D. Deceased donor transplant rates: 01/01/2023 - 12/31/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				_
Count on waiting list at start*	46	65	356	3,353
Person Years**	103.3	137.1	744.4	6,860.9
Removals for Transplant	293	316	1,275	9,233
Adult (18+) Candidates				
Count on waiting list at start*	36	51	280	2,846
Person Years**	86.1	113.2	599.4	5,790.0
Removals for transpant	273	296	1,119	8,194
Pediatric (<18) Candidates				
Count on waiting list at start*	10	14	76	507
Person Years**	17.2	23.9	145.0	1,070.9
Removals for transplant	20	20	156	1,039

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

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





Center Code: NCDU

Transplant Program (Organ): Heart

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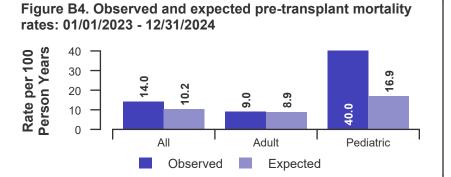
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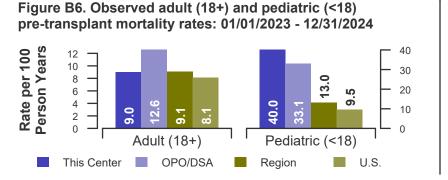
B. Waiting List Information

Table B5. Pre-transplant mortality rates: 01/01/2023 - 12/31/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	46	65	356	3,353
Person Years**	106.8	143.6	853.1	7,725.0
Number of deaths	15	23	84	642
Adult (18+) Candidates				
Count on waiting list at start*	36	51	280	2,846
Person Years**	89.3	119.4	691.6	6,568.3
Number of deaths	8	15	63	532
Pediatric (<18) Candidates				
Count on waiting list at start*	10	14	76	507
Person Years**	17.5	24.2	161.5	1,156.7
Number of deaths	7	8	21	110

^{*} 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.





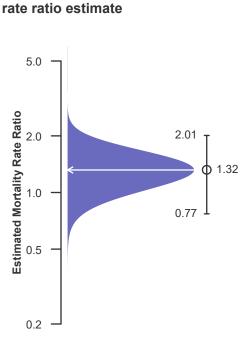


Figure B5. Pre-transplant mortality

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



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

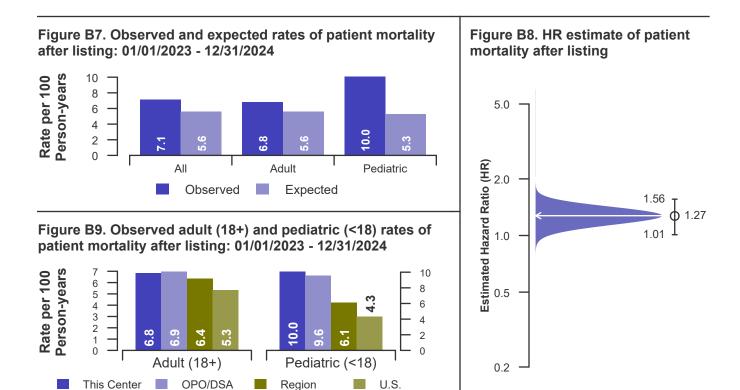
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Table B6. Rates of patient mortality after listing: 01/01/2023 - 12/31/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	829	964	4,666	31,465
Person-years*	1,120.8	1,290.8	6,220.5	42,154.0
Number of Deaths	80	93	393	2,183
Adult (18+) Patients				
Count at risk during the evaluation period	745	870	3,977	27,162
Person-years*	1,011.2	1,165.6	5,275.2	36,296.0
Number of Deaths	69	81	335	1,930
Pediatric (<18) Patients				
Count at risk during the evaluation period	84	94	689	4,303
Person-years*	109.5	125.2	945.4	5,858.0
Number of Deaths	11	12	58	253

^{*} Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2023, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 2024.

^{**} 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.





Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 07/01/2022 and 06/30/2023

Waiting list status (survival status)		Center (Nans Since L	•	U.S. (N=5,535) Months Since Listing			
	6	12	18	6	12	18	
Alive on waiting list (%)	12.3	8.8	6.4	25.7	15.6	11.4	
Died on the waiting list without transplant (%)	4.1	4.7	4.7	2.3	2.6	2.8	
Removed without transplant (%):							
Condition worsened (status unknown)	0.0	0.0	0.0	2.8	3.4	3.8	
Condition improved (status unknown)	1.2	1.8	1.8	0.9	1.9	2.4	
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.3	0.3	
Other	4.1	4.1	4.7	2.1	3.0	3.6	
Transplant (living or deceased donor) (%):							
Functioning (alive)	73.1	72.5	39.2	61.4	64.0	41.5	
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	0.1	0.0	0.0	
Died	5.3	5.8	7.0	3.5	5.0	6.4	
Status Yet Unknown*	0.0	2.3	36.3	0.3	3.3	26.8	
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.6	0.8	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	9.4	10.5	11.7	5.9	7.6	9.2	
Total % known died or removed as unstable	9.4	10.5	11.7	8.7	11.0	13.0	
Total % removed for transplant	78.4	80.7	82.5	65.4	72.5	74.9	
Total % with known functioning transplant (alive)	73.1	72.5	39.2	61.4	64.0	41.5	

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



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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

B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2019 and 12/31/2021

	Percent transplanted at time periods since listing									
Characteristic			nis Cent					ited Sta		
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	355	46.5	83.4	85.6	85.9	14,453	34.8	66.4	71.7	73.8
Ethnicity/Race*										
White	196	43.9	83.2	86.7	87.2	8,362	35.5	67.7	73.0	75.0
African-American	141	49.6	84.4	85.1	85.1	3,654	33.2	63.3	68.7	70.7
Hispanic/Latino	11	54.5	63.6	63.6	63.6	1,667	32.2	65.9	71.7	74.1
Asian	5	60.0	100.0	100.0	100.0	583	43.2	71.9	75.8	77.7
Other	2	0.0	100.0	100.0	100.0	187	29.9	61.0	63.1	65.2
Unknown	0					0				
Age										
<2 years	17	0.0	58.8	58.8	58.8	828	9.5	61.2	63.4	63.6
2-11 years	11	18.2	36.4	45.5	54.5	625	18.1	65.0	71.8	75.8
12-17 years	9	44.4	100.0	100.0	100.0	651	40.7	75.6	81.9	83.6
18-34 years	45	48.9	88.9	88.9	88.9	1,416	36.9	65.4	71.2	73.0
35-49 years	74	48.6	81.1	83.8	83.8	2,632	34.7	63.3	68.8	70.9
50-64 years	158	50.6	87.3	89.9	89.9	5,948	36.4	66.1	71.7	73.9
65-69 years	41	51.2	85.4	87.8	87.8	1,945	39.1	69.6	74.7	76.8
70+ years	0					408	51.5	78.9	80.4	80.6
Gender										
Male	235	44.7	83.4	86.0	86.0	10,240	35.2	65.6	71.1	73.3
Female	120	50.0	83.3	85.0	85.8	4,213	33.8	68.6	73.3	74.9

^{*} 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%.



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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

B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 01/01/2019 and 12/31/2021

		Percent transplanted at time periods since listing								
Characteristic			nis Cent					ited Sta		
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	355	46.5	83.4	85.6	85.9	14,453	34.8	66.4	71.7	73.8
Blood Type										
0	178	38.8	79.8	83.7	84.3	6,449	27.4	57.6	64.0	66.9
A	114	51.8	86.8	87.7	87.7	5,266	40.6	72.6	77.2	78.7
В	54	57.4	87.0	87.0	87.0	2,099	38.2	72.5	77.3	78.6
AB	9	66.7	88.9	88.9	88.9	639	49.5	84.7	86.7	87.2
Previous Transplant										
Yes	22	45.5	90.9	90.9	90.9	560	27.3	62.0	67.5	68.8
No	333	46.5	82.9	85.3	85.6	13,893	35.1	66.6	71.9	74.0
Primary Disease										
Cardiomyopathy	224	48.2	86.2	87.5	87.5	8,401	38.0	69.3	74.4	76.3
Coronary Artery Disease	74	50.0	79.7	85.1	85.1	3,448	36.2	64.7	69.7	72.0
Retransplant/Graft Failure	17	41.2	88.2	88.2	88.2	491	28.7	65.2	70.5	71.7
Valvular Heart Disease	0					139	35.3	56.8	61.2	62.6
Congenital Heart Disease	37	32.4	73.0	75.7	78.4	1,657	17.9	59.7	66.6	69.2
Other	3	33.3	66.7	66.7	66.7	317	30.0	53.0	58.0	58.4
Missing	0					0				
Medical Urgency Status at Lis	sting									
Status 1A	18	16.7	77.8	77.8	77.8	1,251	27.6	73.0	74.2	74.5
Status 1B	8	25.0	50.0	50.0	50.0	459	19.8	68.0	75.4	78.2
Status 2	11	9.1	45.5	54.5	63.6	347	4.9	45.5	60.5	66.3
Unknown	0					271	15.5	45.0	50.2	51.7



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 01/01/2019 and 06/30/2024

Percentile 5th				
	Center	OPO/DSA	Region	U.S.
	0.1	0.1	0.1	0.1
10th	0.2	0.2	0.2	0.2
25th	0.3	0.4	0.4	0.5
50th (median time to transplant)	1.0	1.2	1.7	2.4
75th	4.4	6.6	14.3	23.9

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

^{**} Censored on 12/31/2024. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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Table B11. Offer Acceptance Practices: 01/01/2024 - 12/31/2024

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	2,435	2,686	9,185	63,988
Number of Acceptances	111	120	620	4,003
Expected Acceptances	72.8	90.0	558.4	4,003.5
Offer Acceptance Ratio*	1.51	1.33	1.11	1.00
95% Credible Interval**	[1.24, 1.80]			
PHS increased infectious risk				
Number of Offers	592	652	2,114	14,112
Number of Acceptances	24	25	120	783
Expected Acceptances	14.2	18.1	101.3	782.9
Offer Acceptance Ratio*	1.60	1.34	1.18	1.00
95% Credible Interval**	[1.05, 2.28]			
Ejection fraction < 60				
Number of Offers	1,193	1,324	4,546	30,036
Number of Acceptances	61	66	304	1,848
Expected Acceptances	33.3	42.5	267.7	1,848.2
Offer Acceptance Ratio*	1.79	1.53	1.13	1.00
95% Credible Interval**	[1.37, 2.25]			
Donor Age >= 40				
Number of Offers	1,500	1,638	5,030	34,442
Number of Acceptances	30	35	177	1,195
Expected Acceptances	23.7	30.1	160.0	1,195.1
Offer Acceptance Ratio*	1.24	1.15	1.11	1.00
95% Credible Interval**	[0.85, 1.71]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	958	1,077	3,174	22,017
Number of Acceptances	13	15	70	307
Expected Acceptances	4.5	7.3	43.7	312.3
Offer Acceptance Ratio*	2.30	1.83	1.58	0.98
95% Credible Interval**	[1.29, 3.61]			
Donor more than 500 miles away				
Number of Offers	949	1,046	3,474	25,027
Number of Acceptances	26	28	177	1,057
Expected Acceptances	19.9	24.5	150.7	1,064.6
Offer Acceptance Ratio*	1.28	1.13	1.17	0.99
95% Credible Interval**	[0.85, 1.79]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of Duke University Hospital 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).

^{**} As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.24, 1.80], indicates the location of NCDU's true offer acceptance ratio with 95% probability. The best estimate is 51% more likely to accept an offer compared to national acceptance behavior, but NCDU's performance could plausibly range from 24% higher acceptance up to 80% higher acceptance.



Center Code: NCDU

Transplant Program (Organ): Heart Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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Figure B10. Offer acceptance: Overall NCDU

0.1 0.4 2.5 10 National Lower ← Higher Average

Figure B11. Offer acceptance: PHS increased infectious risk

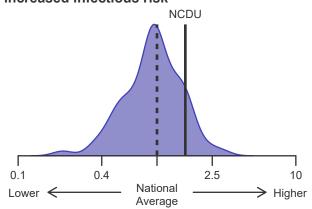


Figure B12. Offer acceptance: **Ejection fraction < 60**

NCDU 0.1 2.5 0.4 10 National Lower ← Higher Average

Figure B13. Offer acceptance: Donor age >= 40

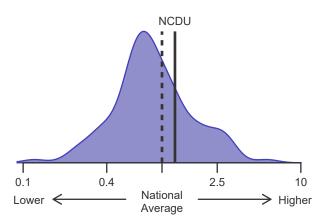


Figure B14. Offer acceptance: Offer number > 50

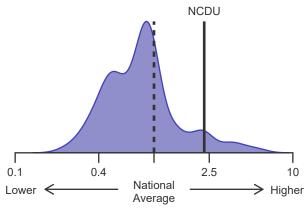
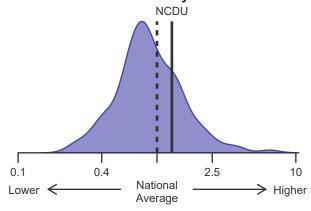


Figure B15. Offer acceptance: Donor more than 500 miles away





Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2024 and 12/31/2024

	Percer	Percentage in each category		
Characteristic	Center (N=127)	Region (N=708)	U.S. (N=4,572)	
Ethnicity/Race (%)*				
White	49.6	56.2	53.2	
African-American	43.3	37.1	25.9	
Hispanic/Latino	3.9	3.5	13.3	
Asian	1.6	1.4	4.2	
Other	0.0	0.8	1.2	
Unknown	1.6	0.8	2.2	
Age (%)				
<2 years	2.4	4.0	3.1	
2-11 years	2.4	3.7	3.6	
12-17	0.8	3.7	3.9	
18-34	14.2	9.2	9.4	
35-49 years	27.6	20.1	17.7	
50-64 years	46.5	45.8	42.4	
65-69 years	5.5	12.3	15.0	
70+ years	0.8	1.4	4.8	
Gender (%)				
Male	66.1	70.6	71.8	
Female	33.9	29.4	28.2	

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



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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

C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2024 and 12/31/2024

	Percentage in each category		
Characteristic	Center	Region	Ü.S.
	(N=127)	(N=708)	(N=4,572)
Blood Type (%)			
0	47.2	43.2	42.5
A	34.6	36.9	37.7
В	16.5	15.1	15.3
AB	1.6	4.8	4.5
Previous Transplant (%)			
Yes	1.6	2.5	3.2
No	98.4	97.5	96.8
Body Mass Index (%)			
0-20	13.4	15.0	15.9
21-25	23.6	22.0	28.0
26-30	30.7	32.3	30.3
31-35	29.9	23.2	19.2
36-40	2.4	5.9	4.4
41+	0.0	1.4	0.8
Unknown	0.0	0.1	1.4
Primary Disease (%)			
Cardiomyopathy	66.1	63.4	61.8
Coronary Artery Disease	25.2	24.7	25.0
Retransplant/Graft Failure	0.0	0.0	0.0
Valvular Heart Disease	0.0	0.6	1.2
Congenital Heart Disease	8.7	10.2	10.0
Other	0.0	1.0	1.8
Missing	0.0	0.1	0.2
Medical Urgency Status at Transplant (%)	2.0	40.0	0.7
Status 1A	3.9	10.3	9.7
Status 1B	1.6	1.0	1.1
Status 2	0.0	0.0	0.2
Adult Status 1	4.7	13.0	14.6
Adult Status 2	55.1	45.3	49.3
Adult Status 3	11.0	11.2	9.1
Adult Status 4	16.5	12.4	10.5
Adult Status 5	2.4 4.7	1.3 5.5	0.9
Adult Status 6	4.7	5.5	4.5
Recipient Medical Condition at Transplant (%) Not Hospitalized	23.6	21.9	19.1
Hospitalized Hospitalized	21.3	24.9	18.9
ICU	55.1	53.2	61.9
Unknown	0.0	0.0	0.1
Recipient Circulatory Support Status at Transplant (%)	0.0	0.0	0.1
No Support Mechanism	18.1	17.7	20.0
Devices*	61.4	64.7	65.3
Other Support Mechanism	20.5	17.7	14.6
Unknown	0.0	0.0	0.1
OTINIOWIT	0.0	0.0	U. I

^{*} Devices include ventricular assist devices (VAD), extracorporeal membrane oxygenation (ECMO), intraaortic balloon pump (IABP), and total artificial heart (TAH).



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

Table C3D. Deceased donor characteristics Transplants performed between 01/01/2024 and 12/31/2024

	Percei	Percentage in each category		
Donor Characteristic	Center (N=127)	Region (N=708)	U.S. (N=4,572)	
Cause of Death (%)				
Deceased: Stroke	9.4	13.1	14.2	
Deceased: MVA	18.9	16.7	18.0	
Deceased: Other	71.7	70.2	67.8	
Ethnicity/Race (%)*				
White	72.4	68.6	60.7	
African-American	11.8	17.9	16.7	
Hispanic/Latino	14.2	11.2	18.3	
Asian	0.8	1.3	2.1	
Other	0.8	0.4	1.6	
Not Reported	0.0	0.6	0.6	
Age (%)				
<2 years	2.4	2.8	2.1	
2-11 years	0.8	3.7	3.4	
12-17	9.4	6.8	6.3	
18-34	42.5	42.8	43.6	
35-49 years	37.8	38.7	37.8	
50-64 years	7.1	5.2	6.7	
65-69 years	0.0	0.0	0.0	
70+ years	0.0	0.0	0.0	
Gender (%)				
Male	72.4	66.8	68.8	
Female	27.6	33.2	31.2	
Blood Type (%)				
0	55.1	52.4	53.4	
A	32.3	35.5	34.3	
В	11.8	10.5	10.5	
AB	0.8	1.7	1.8	
Unknown	0.0	0.0	0.0	

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



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

Table C4D. Deceased donor transplant characteristics Transplants performed between 01/01/2024 and 12/31/2024

	Percentage in each category		
Transplant Characteristic	Center	Region	U.S.
	(N=127)	(N=708)	(N=4,572)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	8.1	8.1
Deceased: 91-180 min	69.6	55.4	52.0
Deceased: 181-270 min	17.4	29.7	26.6
Deceased: 271-360 min	13.0	5.4	7.9
Deceased: 361+ min	0.0	1.4	4.3
Not Reported	0.0	0.0	1.1
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.5	1.2
Deceased: 91-180 min	1.0	11.8	10.7
Deceased: 181-270 min	43.3	58.0	55.2
Deceased: 271-360 min	32.7	18.5	19.3
Deceased: 361+ min	22.1	10.9	12.8
Not Reported	1.0	0.3	0.8
Procedure Type (%)			
Single organ	87.4	90.8	90.2
Multi organ	12.6	9.2	9.8
Donor Location (%)			
Local Donation Service Area (DSA)	18.1	10.5	17.2
Another Donation Service Area (DSA)	81.9	89.5	82.8
Median Time in Hospital After Transplant	15.0 Days	17.0 Days	18.0 Days



Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

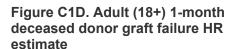
Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	289	8,450
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	95.16% [92.71%-97.66%]	97.29% [96.94%-97.64%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.26%	
Number of observed graft failures (including deaths) during the first month after transplant	14	229
Number of expected graft failures (including deaths) during the first month after transplant	7.78	
Estimated hazard ratio*	1.64	
95% credible interval for the hazard ratio**	[0.93, 2.53]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.93, 2.53], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 64% higher risk

^{**} The 95% credible interval, [0.93, 2.53], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 64% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 7% reduced risk up to 153% increased risk.



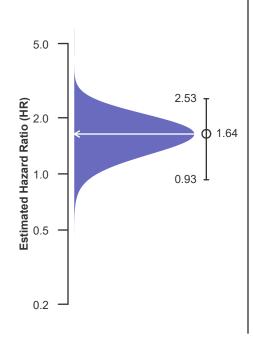
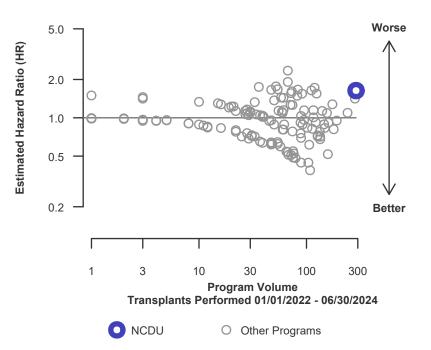


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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C. Transplant Information

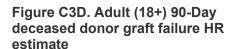
Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	289	8,450
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	92.73% [89.79%-95.78%]	95.40% [94.95%-95.84%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.33%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	21	389
Number of expected graft failures (including deaths) during the first 90 days after transplant	13.10	
Estimated hazard ratio*	1.52	
95% credible interval for the hazard ratio**	[0.97, 2.21]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.97, 2.21], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 52% higher risk

^{**} The 95% credible interval, [0.97, 2.21], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 52% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 3% reduced risk up to 121% increased risk.



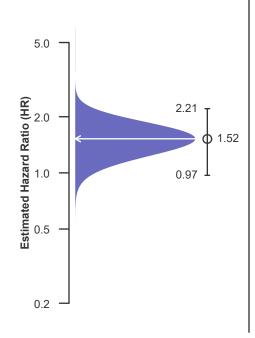
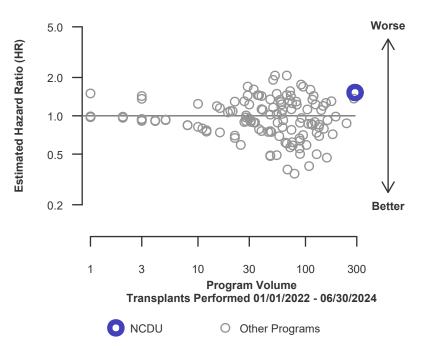


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

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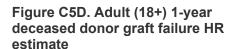
Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	289	8,450
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	87.91% [84.17%-91.82%]	92.20% [91.61%-92.79%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.04%	
Number of observed graft failures (including deaths) during the first year after transplant	34	633
Number of expected graft failures (including deaths) during the first year after transplant	21.48	
Estimated hazard ratio*	1.53	
95% credible interval for the hazard ratio**	[1.07, 2.07]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [1.07, 2.07], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 53% higher risk

of graft failure compared to an average program, but NCDU's performance could plausibly range from 7% increased risk up to 107% increased risk.



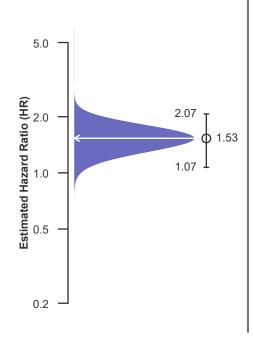
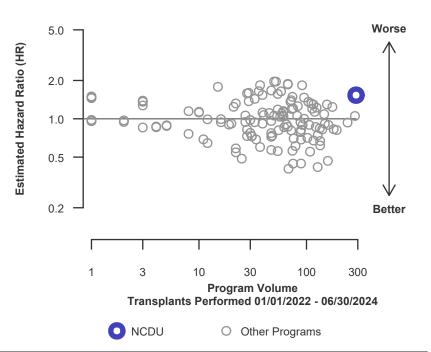


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





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C. Transplant Information

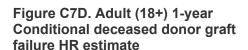
Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	268	8,061
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9	94.80% 93.74%-95.87%]	96.65% [96.48%-96.81%]
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)	96.55%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	13	244
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	8.38	
Estimated hazard ratio*	1.44	
95% credible interval for the hazard ratio**	[0.81, 2.26]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.81, 2.26], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 44% higher risk

^{**} The 95% credible interval, [0.81, 2.26], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 44% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 19% reduced risk up to 126% increased risk.



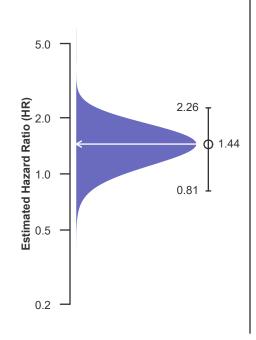
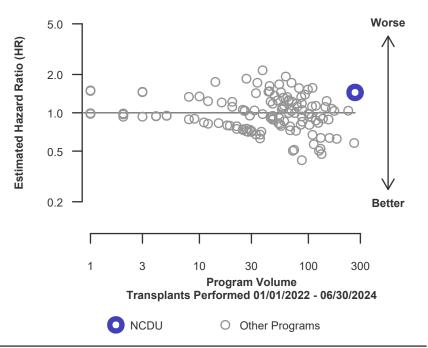


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





Center Code: NCDU Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

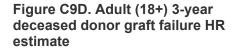
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	NCDU	U.S.
Number of transplants evaluated	201	6,500
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	88.16% [83.12%-93.50%]	84.60% [83.61%-85.59%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	84.39%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	18	814
Number of expected graft failures (including deaths) during the first 3 years after transplant	26.59	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.43, 1.04]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.43, 1.04], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 30% lower risk

of graft failure compared to an average program, but NCDU's performance could plausibly range from 57% reduced risk up to 4% increased risk.



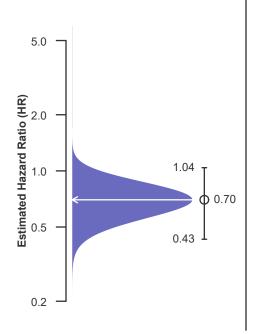
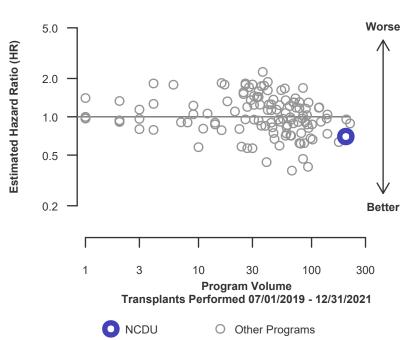


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





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C. Transplant Information

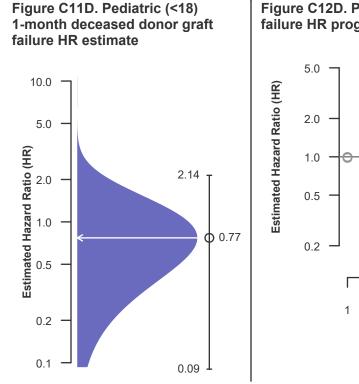
Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

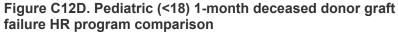
	NCDU	U.S.
Number of transplants evaluated	31	1,281
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.36% [97.67%-99.06%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.10%	
Number of observed graft failures (including deaths) during the first month after transplant	0	21
Number of expected graft failures (including deaths) during the first month after transplant	0.60	
Estimated hazard ratio*	0.77	
95% credible interval for the hazard ratio**	[0.09, 2.14]	

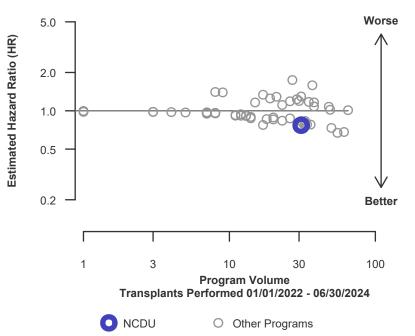
^{*} The hazard ratio provides an estimate of how Duke University Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher 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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.09, 2.14], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 23% lower risk

of graft failure compared to an average program, but NCDU's performance could plausibly range from 91% reduced risk up to 114% increased risk.









Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

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C. Transplant Information

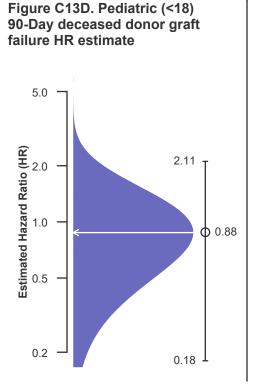
Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

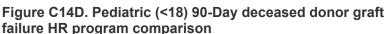
	NCDU	U.S.
Number of transplants evaluated	31	1,281
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	96.77% [90.75%-100.00%]	96.17% [95.13%-97.23%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.56%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	49
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.42	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.18, 2.11]	

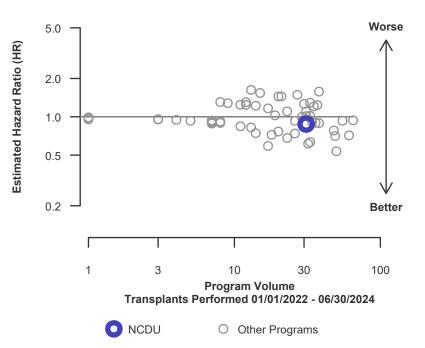
^{*} The hazard ratio provides an estimate of how Duke University Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher 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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.18, 2.11], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 12% lower risk

of graft failure compared to an average program, but NCDU's performance could plausibly range from 82% reduced risk up to 111% increased risk.









Center Code: NCDU Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

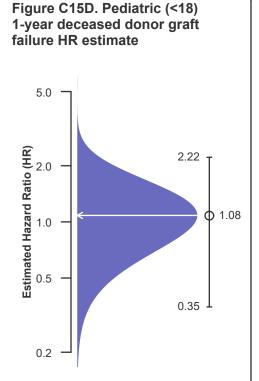
Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

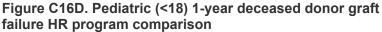
	NCDU	U.S.
Number of transplants evaluated	31	1,281
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	89.03% [78.00%-100.00%]	92.47% [90.98%-93.98%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.13%	
Number of observed graft failures (including deaths) during the first year after transplant	3	91
Number of expected graft failures (including deaths) during the first year after transplant	2.62	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.35, 2.22]	

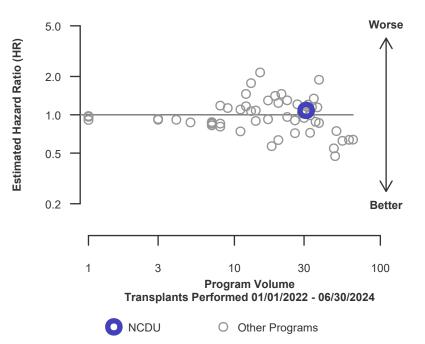
^{*} The hazard ratio provides an estimate of how Duke University Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher 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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.35, 2.22], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 8% higher risk

of graft failure compared to an average program, but NCDU's performance could plausibly range from 65% reduced risk up to 122% increased risk.









Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

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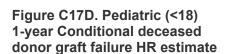
Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2022 and 06/30/2024 Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	30	1,232
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [8 (unadjusted for patient and donor characteristics)	s 92.00% 85.95%-100.00%]	96.15% [95.64%-96.66%]
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)	95.36%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	2	42
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	1.19	
Estimated hazard ratio*	1.25	
95% credible interval for the hazard ratio**	[0.34, 2.75]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.34, 2.75], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 25% higher risk

of graft failure compared to an average program, but NCDU's performance could plausibly range from 66% reduced risk up to 175% increased risk.



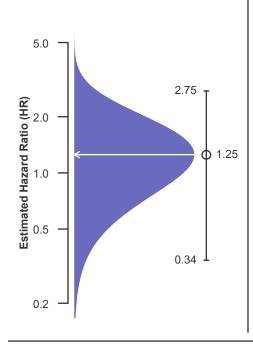
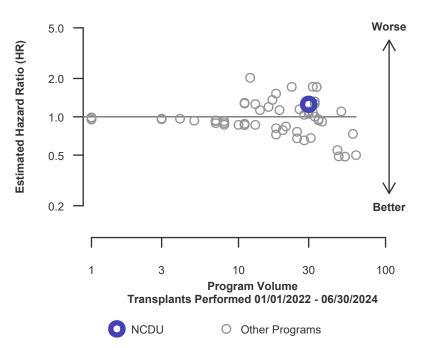


Figure C18D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR program comparison





Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	NCDU	U.S.
Number of transplants evaluated	15	1,106
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	86.15% [70.03%-100.00%]	86.98% [84.77%-89.26%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.30%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	116
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.85	
Estimated hazard ratio*	1.04	
95% credible interval for the hazard ratio**	[0.28, 2.27]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.28, 2.27], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 4% higher risk

^{**} The 95% credible interval, [0.28, 2.27], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 4% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 72% reduced risk up to 127% increased risk.

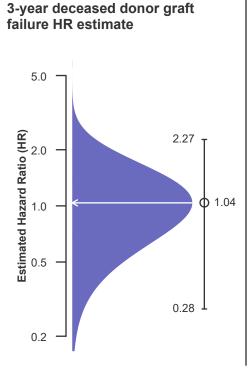
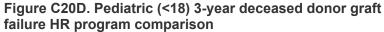
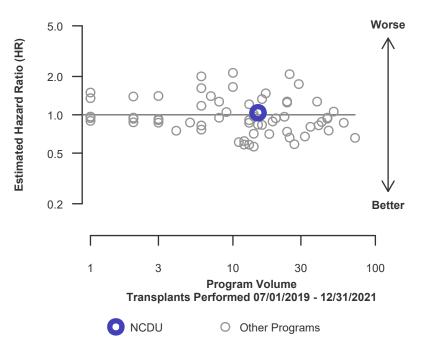


Figure C19D. Pediatric (<18)







Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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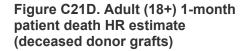
C. Transplant Information

Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2022 and 06/30/2024 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	281	8,244
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	95.02% [92.51%-97.60%]	97.51% [97.18%-97.85%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.51%	
Number of observed deaths during the first month after transplant	14	205
Number of expected deaths during the first month after transplant	6.85	
Estimated hazard ratio*	1.81	
95% credible interval for the hazard ratio**	[1.03, 2.80]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [1.03, 2.80], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 81% higher risk



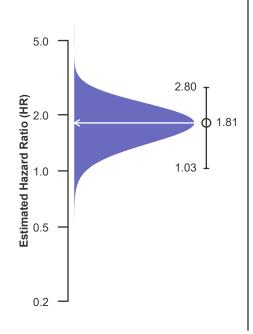
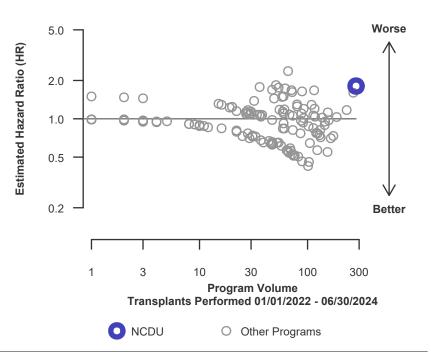


Figure C22D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)



of patient death compared to an average program, but NCDU's performance could plausibly range from 3% increased risk up to 180% increased risk.



Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

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C. Transplant Information

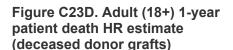
Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2022 and 06/30/2024 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	281	8,244
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	87.55% [83.71%-91.57%]	92.45% [91.87%-93.04%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	92.39%	
Number of observed deaths during the first year after transplant	34	597
Number of expected deaths during the first year after transplant	19.79	
Estimated hazard ratio*	1.65	
95% credible interval for the hazard ratio**	[1.16, 2.23]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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

NCDU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [1.16, 2.23], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 65% higher risk of patient death compared to an average program, but NCDU's performance could plausibly range from 16% increased risk up to 123% increased



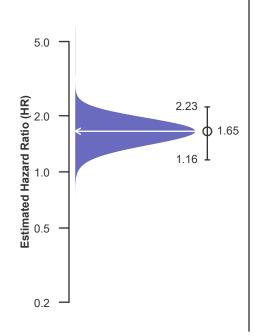
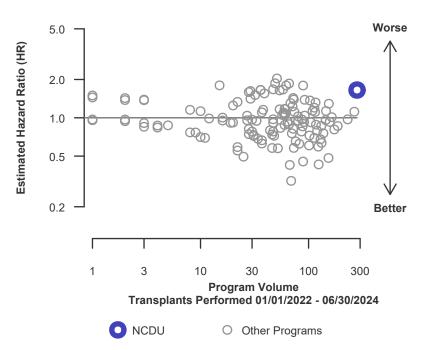


Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

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

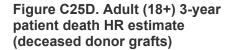
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	NCDU	U.S.
Number of transplants evaluated	193	6,355
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	88.76% [83.69%-94.14%]	85.27% [84.29%-86.26%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	85.21%	
Number of observed deaths during the first 3 years after transplant	16	759
Number of expected deaths during the first 3 years after transplant	24.25	
Estimated hazard ratio*	0.69	
95% credible interval for the hazard ratio**	[0.41, 1.04]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.41, 1.04], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 31% lower risk



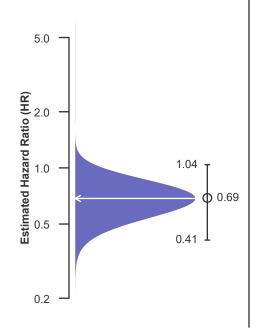
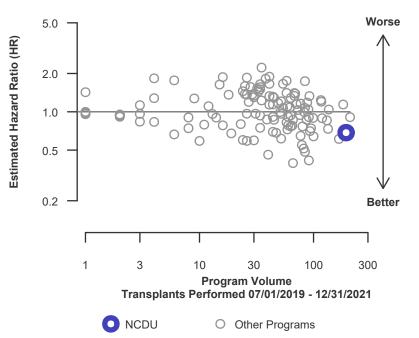


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)



of patient death compared to an average program, but NCDU's performance could plausibly range from 59% reduced risk up to 4% increased risk.



Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

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C. Transplant Information

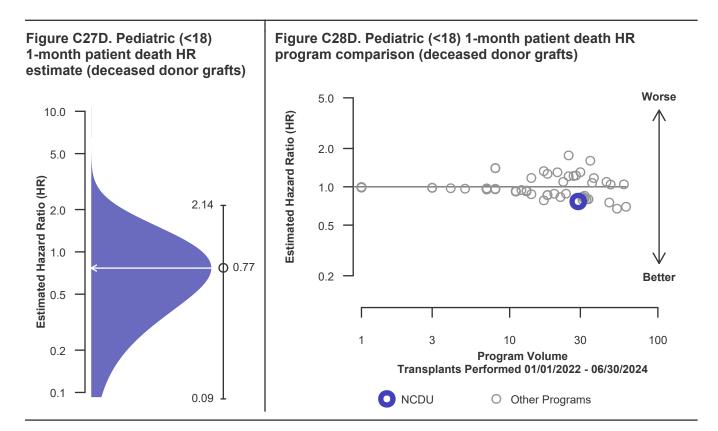
Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2022 and 06/30/2024 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	29	1,229
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.37% [97.67%-99.08%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.93%	
Number of observed deaths during the first month after transplant	0	20
Number of expected deaths during the first month after transplant	0.61	
Estimated hazard ratio*	0.77	
95% credible interval for the hazard ratio**	[0.09, 2.14]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.09, 2.14], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 23% lower risk

of patient death compared to an average program, but NCDU's performance could plausibly range from 91% reduced risk up to 114% increased risk.





Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

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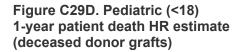
C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2022 and 06/30/2024 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	29	1,229
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	88.16% [76.36%-100.00%]	92.85% [91.37%-94.35%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	90.87%	
Number of observed deaths during the first year after transplant	3	83
Number of expected deaths during the first year after transplant	2.51	
Estimated hazard ratio*	1.11	
95% credible interval for the hazard ratio**	[0.36, 2.27]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.36, 2.27], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 11% higher risk



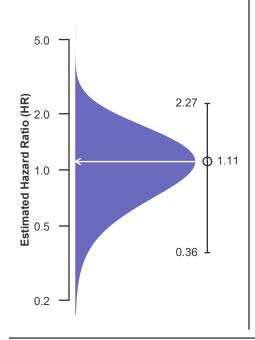
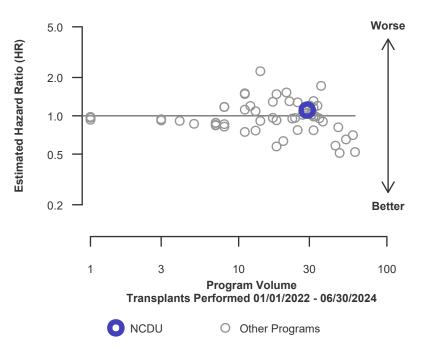


Figure C30D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)



of patient death compared to an average program, but NCDU's performance could plausibly range from 64% reduced risk up to 127% increased risk.



Center Code: NCDU Transplant Program (Organ): Heart Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

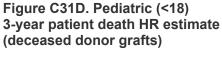
Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	NCDU	U.S.
Number of transplants evaluated	14	1,057
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [69.21%-100.00%]	87.00% [84.74%-89.33%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.20%	
Number of observed deaths during the first 3 years after transplant	2	111
Number of expected deaths during the first 3 years after transplant	1.56	
Estimated hazard ratio*	1.12	
95% credible interval for the hazard ratio**	[0.31, 2.46]	

^{*} The hazard ratio provides an estimate of how Duke University Hospital'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 NCDU's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.31, 2.46], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 12% higher risk



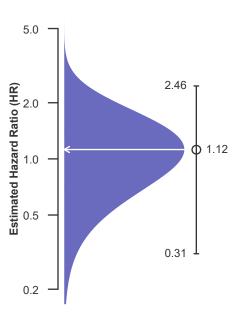
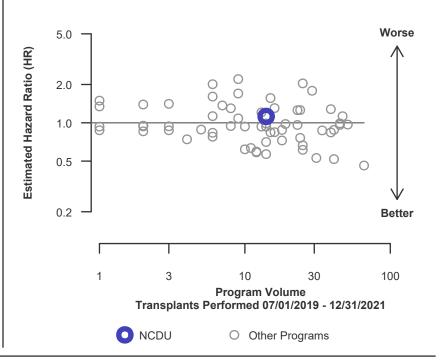


Figure C32D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)



of patient death compared to an average program, but NCDU's performance could plausibly range from 69% reduced risk up to 146% increased risk.



Center Code: NCDU

Transplant Program (Organ): Heart

Release Date: July 8, 2025

Based on Data Available: April 30, 2025

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C. Transplant Information

Table C21. Multi-organ transplant graft survival: 01/01/2022 - 06/30/2024

Adult (18+) Transplants

First-Year Outcomes

Transplant Type Transplant Performed		Heart Graft Failures		Estimated Heart Graft Survival		
	NCDU-TX1	USA	NCDU-TX1	USA	NCDU-TX1	USA
Heart-Lung	13	127	2	20	84.6%	84.3%
Kidney-Heart	32	987	3	103	90.6%	89.6%
Liver-Heart	5	176	0	34	100.0%	80.7%

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 01/01/2022 - 06/30/2024

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Perfor			eaths USA	Estima Patient S NCDU-TX1	
	HODO-IXI	007	HODO-IXI	007	HODO-IXI	
Heart-Lung	13	127	2	20	84.6%	84.3%
Kidney-Heart	32	987	3	101	90.6%	89.8%
Liver-Heart	5	176	0	34	100.0%	80.7%

Pediatric (<18) Transplants

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