

SCIENTIFIC Duke REGISTRY OF Center

TRANSPLANT

RECIPIENTS

Duke University Hospital Center Code: NCDU Transplant Program (Organ): Liver 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 liver 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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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 436.0 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 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.

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

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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of offers.

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

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

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

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

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

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



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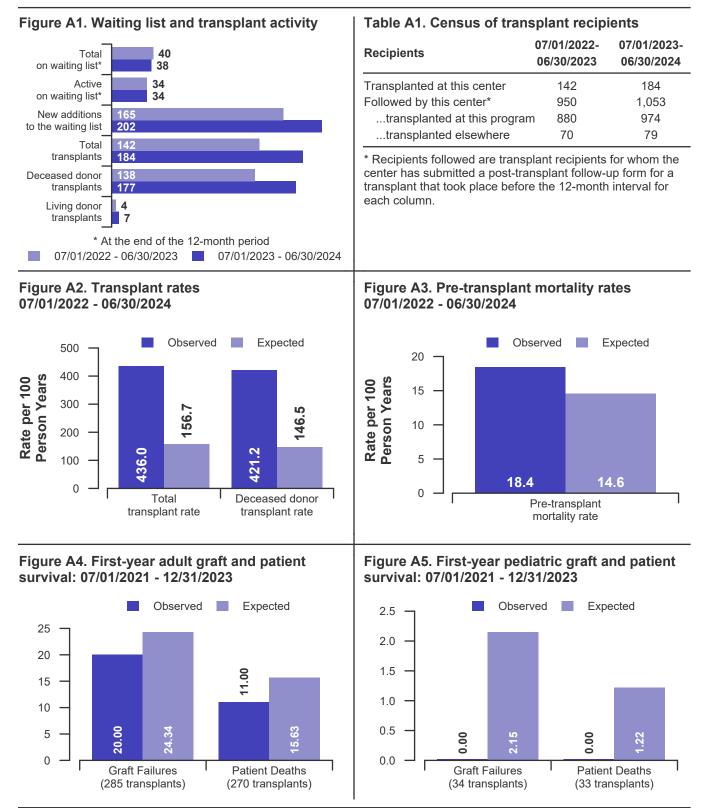
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### A. Program Summary





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

#### Table B1. Waiting list activity summary: 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	37	40	100.0	100.0	100.0	
New listings at this center	165	202	505.0	171.2	145.7	
Removals						
Transferred to another center	1	0	0.0	0.5	1.5	
Received living donor transplant*	4	7	17.5	6.3	6.2	
Received deceased donor transplant*	138	177	442.5	127.1	101.8	
Died	8	5	12.5	12.5	9.2	
Transplanted at another center	2	1	2.5	3.0	2.9	
Deteriorated	3	4	10.0	7.5	9.1	
Recovered	2	6	15.0	9.9	10.9	
Other reasons	4	4	10.0	9.6	11.2	
On waiting list at end of period	40	38	95.0	94.7	92.8	

\* 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**

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#### Table B2. Demographic characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2023 and 06/30/2024

Demographic Characteristic		iting List Reg 023 to 06/30/2		All Waiting List Registrations on 06/30/2024 (%)			
	This Center (N=202)	OPTN Region (N=1,366)	U.S. (N=15,115)	This Center (N=38)	OPTN Region (N=756)	U.S. (N=9,633)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	78.2	79.5	65.2	81.6	80.4	63.4	
African-American	10.9	11.0	6.7	7.9	11.5	7.0	
Hispanic/Latino	4.5	5.6	19.4	5.3	5.7	21.5	
Asian	3.0	2.2	4.3	2.6	1.6	5.1	
Other	2.5	0.9	2.2	2.6	0.4	1.9	
Unknown	1.0	0.9	2.3	0.0	0.4	1.2	
Age (%)							
<2 years	4.0	1.8	2.0	2.6	0.7	1.2	
2-11 years	3.5	2.0	1.6	7.9	0.9	1.5	
12-17 years	0.5	0.7	1.1	0.0	0.5	1.2	
18-34 years	6.4	6.1	7.0	5.3	4.4	6.6	
35-49 years	13.9	22.2	22.7	7.9	19.2	20.5	
50-64 years	52.0	47.7	44.2	50.0	50.7	47.3	
65-69 years	15.3	14.5	15.6	21.1	18.4	16.7	
70+ years	4.5	5.0	5.8	5.3	5.3	5.0	
Gender (%)							
Male	56.4	61.1	58.5	55.3	62.0	59.1	
Female	43.6	38.9	41.5	44.7	38.0	40.9	

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



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

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

Medical Characteristic	07/01/2	iting List Regi 023 to 06/30/2	2024 (%)	All Waiting List Registrations on 06/30/2024 (%)			
	This Center (N=202)	OPTN Region (N=1,366)	U.S. (N=15,115)	This Center (N=38)	OPTN Region (N=756)	U.S. (N=9,633)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	45.0	47.4	47.6	57.9	50.8	50.5	
A	39.1	37.0	37.3	31.6	38.2	39.0	
В	12.9	12.4	11.5	10.5	10.1	9.0	
AB	3.0	3.3	3.6	0.0	0.9	1.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	5.4	3.8	4.5	7.9	2.6	4.0	
No	94.6	96.2	95.5	92.1	97.4	96.0	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	1.0	1.2	2.3	0.0	0.8	1.3	
Non-Cholestatic Cirrhosis	43.6	38.4	31.0	42.1	50.1	45.4	
Cholestatic Liver Disease/Cirrhosis	7.9	5.0	6.4	7.9	5.7	7.3	
Biliary Atresia	4.5	1.5	1.7	2.6	0.9	1.7	
Metabolic Diseases	2.0	2.9	2.1	0.0	1.5	1.4	
Malignant Neoplasms	9.9	8.9	10.8	7.9	9.9	11.5	
Other	31.2	41.9	45.6	39.5	30.8	31.4	
Missing	0.0	0.1	0.1	0.0	0.3	0.1	
Medical Urgency Status/MELD/PEL	.D at Listing	(%)*					
Status 1A	0.5	1.5	2.4	0.0	0.0	0.2	
Status 1B	0.5	0.6	0.4	0.0	0.0	0.1	
Status 2A	0.0	0.0	0.0	0.0	0.0	0.0	
Status 2B	0.0	0.0	0.0	0.0	0.0	0.0	
Status 3	0.0	0.0	0.0	0.0	0.0	0.1	
MELD 6-10	8.9	8.6	11.7	18.4	16.1	23.5	
MELD 11-14	15.3	11.2	12.4	34.2	20.8	22.0	
MELD 15-20	26.2	24.4	22.2	18.4	36.2	29.2	
MELD 21-30	27.7	28.5	24.9	15.8	21.0	15.2	
MELD 31-40	9.9	15.0	13.7	0.0	1.3	1.1	
PELD less than or equal to 10	2.5	1.2	1.3	2.6	0.4	1.7	
PELD 11-14	2.0	0.3	0.4	2.6	0.3	0.2	
PELD 15-20	1.0	0.7	0.4	0.0	0.5	0.2	
PELD 21-30	1.5	0.4	0.3	5.3	0.4	0.1	
PELD 31 or greater	0.0	0.2	0.1	0.0	0.0	0.0	
Temporarily Inactive	1.5	3.0	5.5	2.6	2.9	6.2	

\* MELD/PELD score based on laboratory measures is shown for listings beginning 2/27/2002 unless patient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005.

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

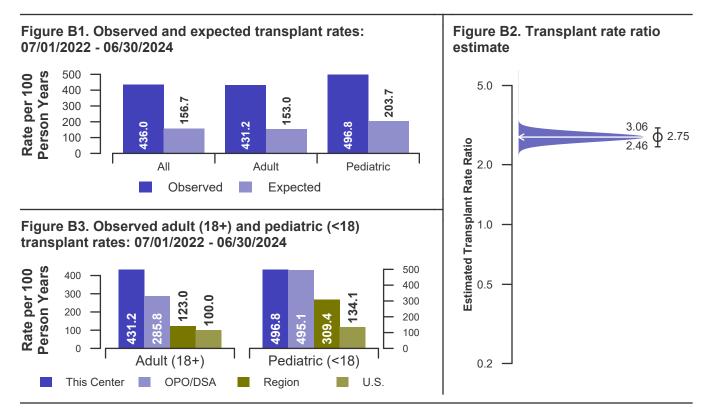
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#### Table B4. Transplant rates: 07/01/2022 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	37	74	791	11,429
Person Years**	74.8	135.6	1,555.2	21,075.0
Removals for Transplant	326	399	1,970	21,361
Adult (18+) Candidates				
Count on waiting list at start*	34	70	773	10,977
Person Years**	69.3	130.2	1,524.2	20,226.5
Removals for transpant	299	372	1,874	20,223
Pediatric (<18) Candidates				
Count on waiting list at start*	3	4	18	452
Person Years**	5.4	5.5	31.0	848.5
Removals for transplant	27	27	96	1,138

\* 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**

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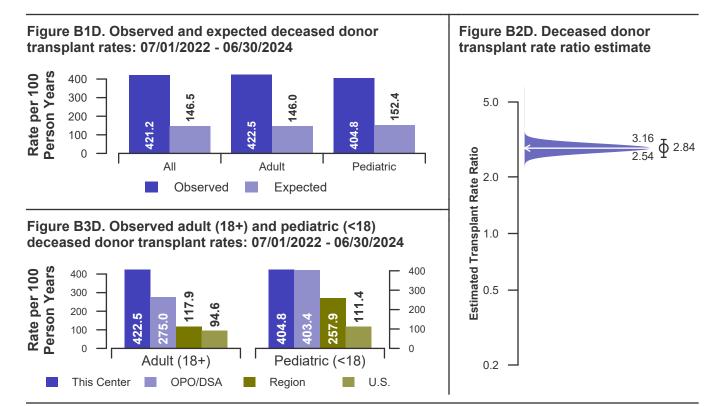
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#### Table B4D. Deceased donor transplant rates: 07/01/2022 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	37	74	791	11,429
Person Years**	74.8	135.6	1,555.2	21,075.0
Removals for Transplant	315	380	1,877	20,084
Adult (18+) Candidates				
Count on waiting list at start*	34	70	773	10,977
Person Years**	69.3	130.2	1,524.2	20,226.5
Removals for transpant	293	358	1,797	19,139
Pediatric (<18) Candidates				
Count on waiting list at start*	3	4	18	452
Person Years**	5.4	5.5	31.0	848.5
Removals for transplant	22	22	80	945

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

\*\* Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, removal from the waiting list or June 30.





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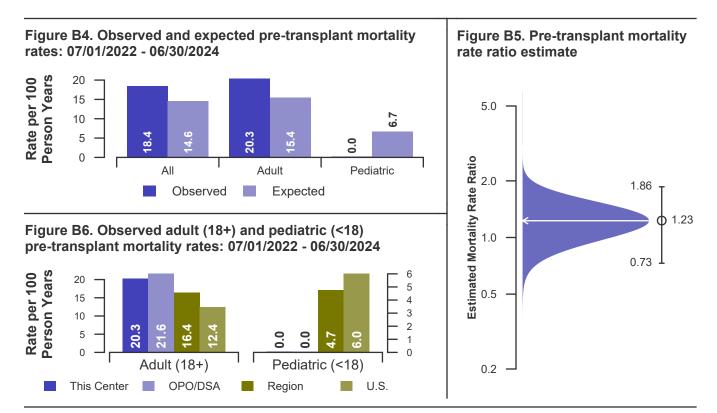
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#### Table B5. Pre-transplant mortality rates: 07/01/2022 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	37	74	791	11,429
Person Years**	86.8	165.9	1,775.1	24,728.8
Number of deaths	16	34	287	3,014
Adult (18+) Candidates				
Count on waiting list at start*	34	70	773	10,977
Person Years**	78.7	157.6	1,733.0	23,778.9
Number of deaths	16	34	285	2,957
Pediatric (<18) Candidates				
Count on waiting list at start*	3	4	18	452
Person Years**	8.1	8.2	42.2	949.9
Number of deaths	0	0	2	57

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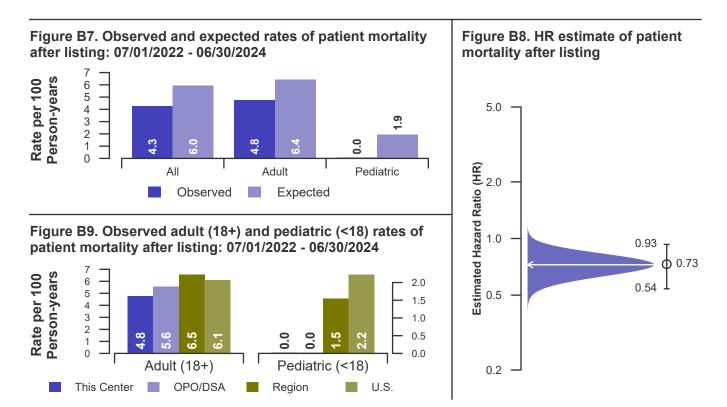
## **B. Waiting List Information**

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

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	928	1,236	8,420	81,065
Person-years*	1,194.1	1,584.9	11,202.8	108,787.6
Number of Deaths	51	81	700	6,395
Adult (18+) Patients				
Count at risk during the evaluation period	833	1,134	7,920	76,664
Person-years*	1,072.8	1,453.5	10,555.2	102,787.2
Number of Deaths	51	81	690	6,262
Pediatric (<18) Patients				
Count at risk during the evaluation period	95	102	500	4,401
Person-years*	121.3	131.4	647.5	6,000.5
Number of Deaths	0	0	10	133

\* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2022, or from the date of first wait listing until death, reaching 5 years after listing or June 30, 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.





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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 (Na ns Since L 12		U.S. (N=13,611) Months Since Listing 6 12 18			
Alive on waiting list (%)	13.1	2.5	0.8	36.5	20.4	12.7	
Died on the waiting list without transplant (%)	6.6	7.4	7.4	3.8	4.7	5.2	
Removed without transplant (%):							
Condition worsened (status unknown)	1.6	1.6	1.6	3.6	4.9	5.7	
Condition improved (status unknown)	0.8	0.8	0.8	1.4	2.6	3.7	
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.3	0.5	
Other	1.6	2.5	2.5	1.6	2.9	3.9	
Transplant (living donor from waiting list only) (%):							
Functioning (alive)	2.5	2.5	0.8	3.0	3.6	2.4	
Failed-Retransplanted (alive)	0.8	0.8	0.8	0.1	0.1	0.1	
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0	
Died	0.0	0.0	0.0	0.0	0.1	0.1	
Status Yet Unknown**	0.0	0.0	1.6	0.0	0.1	1.7	
Transplant (deceased donor) (%):							
Functioning (alive)	68.0	68.0	32.8	45.7	50.7	36.6	
Failed-Retransplanted (alive)	0.0	0.0	0.8	0.4	0.6	0.7	
Failed-alive not retransplanted	0.0	0.0	0.8	0.0	0.0	0.0	
Died	1.6	3.3	4.1	2.1	3.1	4.1	
Status Yet Unknown*	2.5	9.8	44.3	1.5	5.4	22.0	
Lost or Transferred (status unknown) (%)	0.8	0.8	0.8	0.2	0.5	0.6	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	8.2	10.7	11.5	6.0	7.9	9.4	
Total % known died or removed as unstable	9.8	12.3	13.1	9.6	12.8	15.1	
Total % removed for transplant	75.4	84.4	86.1	52.8	63.7	67.7	
Total % with known functioning transplant (alive)	70.5	70.5	33.6	48.6	54.3	39.0	

\* 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 B7S1. Medical urgency status 1 candidate status after listingCandidates registered on the waiting list between 01/01/2022 and 12/31/2022

Waiting list status (survival status)		s Center (I hs Since I 12	,	U.S. (N=447) Months Since listing 6 12 18		
Alive on waiting list (%)	0.0	0.0	0.0	2.7	1.3	0.9
Died on the waiting list without transplant (%)	0.0	0.0	0.0	6.3	6.3	6.3
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	6.9	6.9	7.2
Condition improved (status unknown)	0.0	0.0	0.0	18.8	19.9	20.1
Refused transplant (status unknown)	0.0	0.0	0.0	0.4	0.4	0.4
Other	0.0	0.0	0.0	0.7	0.7	0.7
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	3.1	2.2	1.3
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.2	0.4	0.4
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.7	1.6
Transplant (deceased donor) (%):						
Functioning (alive)	100.0	100.0	50.0	51.7	46.8	36.7
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.9	1.1	1.1
Failed-alive not retransplanted	0.0	0.0	0.0	0.4	0.2	0.0
Died	0.0	0.0	0.0	6.3	7.6	8.3
Status Yet Unknown*	0.0	0.0	50.0	1.1	4.9	14.5
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.4	0.4
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	0.0	0.0	12.8	14.3	15.0
Total % known died or removed as unstable	0.0	0.0	0.0	19.7	21.3	22.1
Total % removed for transplant	100.0	100.0	100.0	63.8	64.0	64.0
Total % with known functioning transplant (alive)	100.0	100.0	50.0	54.8	49.0	38.0

\* 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			2 years	3 years	s N				3 years
All	390	34.1	79.2	83.6	84.1	38,667	26.3	54.4	59.9	61.6
Ethnicity/Race*										
White	302	34.4	80.5	84.8	85.1	26,504	26.7	55.0	60.2	61.9
African-American	43	30.2	72.1	76.7	79.1	2,982	29.3	57.6	62.9	64.7
Hispanic/Latino	18	27.8	77.8	83.3	83.3	6,761	23.8	51.2	57.5	59.3
Asian	12	33.3	75.0	83.3	83.3	1,744	24.2	50.4	58.5	61.1
Other	15	46.7	80.0	80.0	80.0	676	29.7	55.0	60.1	62.0
Unknown	0					0				
Age										
<2 years	20	40.0	95.0	95.0	95.0	779	23.9	73.2	75.4	76.5
2-11 years	6	33.3	50.0	50.0	50.0	572	24.7	67.7	72.4	74.1
12-17 years	7	14.3	42.9	42.9	42.9	443	20.8	58.2	63.7	64.6
18-34 years	21	47.6	90.5	90.5	90.5	2,452	38.4	58.0	61.9	63.1
35-49 years	70	45.7	81.4	84.3	84.3	7,334	37.9	59.6	63.7	65.1
50-64 years	172	34.9	80.8	87.2	87.8	18,588	24.4	53.3	59.2	61.2
65-69 years	73	23.3	72.6	78.1	79.5	6,459	17.5	48.3	55.5	57.4
70+ years	21	14.3	76.2	76.2	76.2	2,040	18.1	48.2	54.1	55.1
Gender										
Male	242	32.6	78.5	81.8	82.2	24,003	26.2	55.5	61.1	62.9
Female	148	36.5	80.4	86.5	87.2	14,664	26.5	52.5	58.0	59.6

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



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

TRANSPLANT

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		Tł	nis Cent	er		-	Un	nce listir	tes	
	Ν	30 day	1 year	2 years	3 years	S N	30 day	1 year	2 years	3 years
All	390	34.1	79.2	83.6	84.1	38,667	26.3	54.4	59.9	61.6
Blood Type										
0	175	31.4	80.6	85.1	85.1	18,056	24.9	52.0	57.6	59.6
A	153	33.3	76.5	81.7	83.0	14,329	25.6	52.5	58.4	60.2
В	51	41.2	78.4	80.4	80.4	4,735	29.6	62.4	67.3	68.8
AB	11	54.5	100.0	100.0	100.0	1,547	39.5	74.2	76.8	77.4
Previous Transplant										
Yes	16	37.5	62.5	62.5	62.5	1,865	32.7	55.4	59.1	60.2
No	374	34.0	79.9	84.5	85.0	36,802	26.0	54.3	59.9	61.7
Primary Disease										
Acute Hepatic Necrosis	15	86.7	86.7	86.7	86.7	1,916	58.4	66.8	68.2	68.6
Non-Cholestatic Cirrhosis	229	36.7	81.2	86.0	86.5	25,612	27.9	54.2	59.1	60.8
Cholestatic Liver	37	37.8	64.9	75.7	75.7	2,538	21.2	51.7	59.7	61.6
Disease/Cirrhosis		57.0	04.9	13.1	15.1	2,550		51.7	59.7	01.0
Biliary Atresia	12	50.0	100.0	100.0	100.0	668	15.7	66.8	71.3	72.6
Metabolic Diseases	13	30.8	92.3	92.3	92.3	827	27.8	69.6	74.2	75.7
Malignant Neoplasms	49	6.1	77.6	81.6	83.7	4,744	8.2	47.3	56.5	58.9
Other	35	25.7	68.6	68.6	68.6	2,346	27.2	54.6	60.4	62.8
Missing	0					16	37.5	37.5	43.8	43.8
Medical Urgency Status/MELD/		at Listin	g*							
Status 1	0					0				
Status 1A	10	70.0	70.0	70.0	70.0	1,183	62.2	62.3	62.5	62.6
Status 1B	1	0.0	100.0	100.0	100.0	137	50.4	82.5	82.5	82.5
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	65	1.5	75.4	80.0	80.0	6,657	2.6	36.1	46.4	49.5
MELD 11-14	39	5.1	61.5	71.8	71.8	4,856	3.5	34.5	44.1	47.3
MELD 15-20	91	18.7	72.5	81.3	81.3	8,019	11.0	47.0	54.0	56.2
MELD 21-30	110	46.4	85.5	87.3	89.1	9,126	34.5	65.7	68.7	69.6
MELD 31-40	43	93.0	93.0	93.0	93.0	4,694	76.8	83.0	83.1	83.1
PELD less than or equal to 10	12	25.0	83.3	83.3	83.3	598	11.0	72.7	78.3	80.8
PELD 11-14	1	100.0	100.0	100.0	100.0	96	18.8	78.1	81.2	83.3
PELD 15-20	4	50.0	100.0	100.0	100.0	149	23.5	74.5	75.8	75.8
PELD 21-30	2	0.0	100.0	100.0	100.0	111	20.7	75.7	77.5	77.5
PELD 31 or greater	2	100.0	100.0	100.0	100.0	48	45.8	70.8	70.8	70.8
Temporarily Inactive	10	70.0	90.0	90.0	90.0	2,993	41.3	56.8	60.0	61.1

\* MELD/PELD score based on laboratory measures is shown for listings beginning 2/27/2002 unless patient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005.



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

# 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	0.1	0.1	0.1	0.2
25th	0.4	0.5	0.5	0.6
50th (median time to transplant)	1.9	2.5	4.5	6.0
75th	6.5	9.3	Not Observed	Not Observed

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

\*\* Censored on 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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REGISTRY OF C TRANSPLANT R

Center Code: NCDU Transplant Program (Organ): Liver Release Date: January 7, 2025 Based on Data Available: October 31, 2024 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

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

RECIPIENTS

#### Table B11. Offer Acceptance Practices: 07/01/2023 - 06/30/2024

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	3,120	4,107	43,760	407,779
Number of Acceptances	163	190	1,085	9,376
Expected Acceptances	103.7	157.7	1,157.5	9,376.0
Offer Acceptance Ratio*	1.56	1.20	0.94	1.00
95% Credible Interval**	[1.33, 1.81]			
PHS increased infectious risk				
Number of Offers	405	583	6,252	52,566
Number of Acceptances	31	36	190	1,625
Expected Acceptances	18.5	29.4	218.3	1,629.8
Offer Acceptance Ratio*	1.61	1.21	0.87	1.00
95% Credible Interval**	[1.11, 2.20]			
DCD donor				
Number of Offers	1,503	1,731	17,739	189,824
Number of Acceptances	69	76	241	2,179
Expected Acceptances	35.5	49.9	311.1	2,181.3
Offer Acceptance Ratio*	1.89	1.50	0.78	1.00
95% Credible Interval**	[1.48, 2.36]			
HCV+ donor				
Number of Offers	98	143	1,467	10,713
Number of Acceptances	9	10	46	330
Expected Acceptances	4.8	6.8	53.8	332.2
Offer Acceptance Ratio*	1.60	1.37	0.86	0.99
95% Credible Interval**	[0.80, 2.68]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	1,911	2,285	26,816	274,436
Number of Acceptances	27	27	144	1,438
Expected Acceptances	26.5	36.5	202.0	1,602.9
Offer Acceptance Ratio*	1.02	0.75	0.72	0.90
95% Credible Interval**	[0.68, 1.42]			
Donor more than 500 miles away				
Number of Offers	791	970	9,855	135,912
Number of Acceptances	20	21	119	1,170
Expected Acceptances	14.2	18.4	139.3	1,126.7
Offer Acceptance Ratio*	1.36	1.13	0.86	1.04
95% Credible Interval**	[0.85, 1.98]			

\* 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).

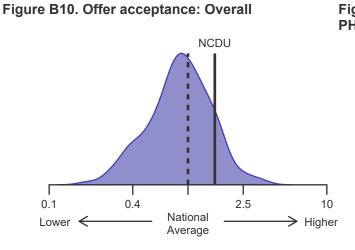
\*\* As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.33, 1.81], indicates the location of NCDU's true offer acceptance ratio with 95% probability. The best estimate is 56% more likely to accept an offer compared to national acceptance behavior, but NCDU's performance could plausibly range from 33% higher acceptance up to 81% higher acceptance.

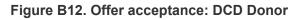


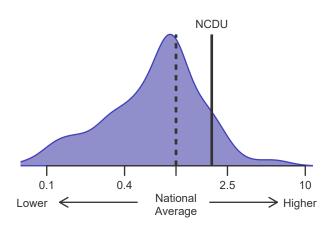
REGISTRY OF Center Code: NCDU TRANSPLANT Release Date: January 7, 2025 RECIPIENTS Based on Data Available: October 31, 2024

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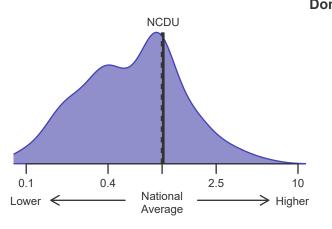
#### **B. Waiting List Information**











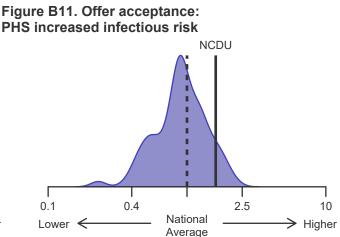
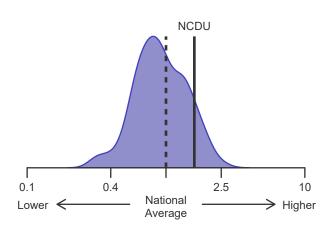
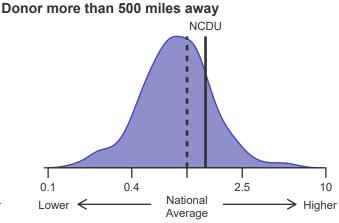


Figure B13. Offer acceptance: HCV+ Donor







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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

	Perce	Percentage in each category		
Characteristic	Center (N=177)	Region (N=1,014)	U.S. (N=10,566)	
Ethnicity/Race (%)*				
White	79.1	80.3	66.6	
African-American	10.2	10.2	6.9	
Hispanic/Latino	4.0	5.2	18.2	
Asian	3.4	2.4	4.2	
Other	2.3	1.1	2.4	
Unknown	1.1	0.9	1.7	
Age (%)				
<2 years	2.8	1.4	1.6	
2-11 years	2.8	2.0	1.8	
12-17	0.0	1.1	1.1	
18-34	4.0	5.7	6.9	
35-49 years	16.9	21.5	22.8	
50-64 years	51.4	48.3	44.5	
65-69 years	15.3	13.4	14.6	
70+ years	6.8	6.6	6.7	
Gender (%)				
Male	53.7	60.3	59.6	
Female	46.3	39.7	40.4	

\* 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**

## Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 07/01/2023 and 06/30/2024

	Percer	Percentage in each category		
Characteristic	Center (N=7)	Region (N=50)	U.S. (N=642)	
Ethnicity/Race (%)*				
White	71.4	82.0	71.3	
African-American	14.3	16.0	5.6	
Hispanic/Latino	0.0	0.0	16.8	
Asian	0.0	0.0	3.7	
Other	14.3	2.0	1.1	
Unknown	0.0	0.0	1.4	
Age (%)				
<2 years	42.9	12.0	10.3	
2-11 years	0.0	6.0	5.8	
12-17	0.0	0.0	0.9	
18-34	0.0	6.0	9.5	
35-49 years	14.3	30.0	19.0	
50-64 years	28.6	20.0	34.6	
65-69 years	0.0	18.0	15.4	
70+ years	14.3	8.0	4.5	
Gender (%)				
Male	71.4	52.0	48.1	
Female	28.6	48.0	51.9	

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



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

## 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=177)	Region (N=1,014)	U.S. (N=10,566)
Blood Type (%)	. ,		
0	42.9	45.0	46.6
A	40.7	38.2	36.4
В	12.4	12.7	12.6
AB	4.0	4.1	4.4
Previous Transplant (%)			
Yes	5.1	3.3	4.3
No	94.9	96.7	95.7
Body Mass Index (%)			
0-20	7.9	6.5	9.8
21-25	23.2	21.5	25.8
26-30	26.0	28.5	30.4
31-35	19.8	24.0	19.5
36-40	16.9	12.5	8.6
41+	6.2	6.5	4.4
Unknown	0.0	0.5	1.4
Primary Disease (%)			
Acute Hepatic Necrosis	0.6	1.2	2.0
Non-Cholestatic Cirrhosis	47.5	42.4	31.9
Cholestatic Liver Disease/Cirrhosis	6.2	5.3	6.8
Biliary Atresia	4.0	1.5	1.7
Metabolic Diseases	2.3	3.2	2.4
Malignant Neoplasms	10.7	8.1	11.1
Other	28.2	38.3	44.1
Missing	0.6	0.1	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.1	0.0
Status 1A	0.6	1.9	2.6
Status 1B	0.0	1.1	1.2
MELD 6-10	6.8	7.6	8.5
MELD 11-14	7.9	6.6	8.1
MELD 15-20	26.6	17.1	18.7
MELD 21-30	35.6	33.2	30.5
MELD 31-40	13.6	24.8	21.8
PELD less than or equal to 10	2.3	0.8	0.9
PELD 11-14	1.1	0.3	0.4
PELD 15-20	1.1	0.2	0.4
PELD 21-30	1.1	0.2	0.3
PELD 21-50 PELD 31 or greater	0.0	0.5	0.3
Temporarily Inactive	0.0	0.2	0.0
Recipient Medical Condition at Transplant (%)	0.0	0.0	0.0
Not Hospitalized	71.2	60.4	58.8
Hospitalized	20.3	25.1	24.6
ICU	20.3 8.5		24.0
Unknown	0.0	14.5 0.0	0.0
	0.0	0.0	0.0

\* MELD/PELD score based on laboratory measures at the time of transplant is shown unless recipient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005

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



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

## Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 07/01/2023 and 06/30/2024

	Percentage in each category		
Characteristic	Center (N=7)	Region (N=50)	Ú.S. (N=642)
Blood Type (%)			
0	42.9	42.0	45.0
A	42.9	52.0	41.7
В	14.3	4.0	10.4
AB	0.0	2.0	2.8
Previous Transplant (%)			
Yes	0.0	2.0	1.1
No	100.0	98.0	98.9
Body Mass Index (%)			
0-20	42.9	22.0	22.7
21-25	14.3	22.0	28.8
26-30	42.9	32.0	29.8
31-35	0.0	18.0	11.4
36-40	0.0	4.0	5.1
41+	0.0	2.0	1.4
Unknown	0.0	0.0	0.8
	0.0	0.0	0.0
Primary Disease (%) Acute Hepatic Necrosis	0.0	0.0	0.5
		0.0	0.5
Non-Cholestatic Cirrhosis	42.9	42.0	33.5
Cholestatic Liver Disease/Cirrhosis	14.3	16.0	17.4
Biliary Atresia	42.9	8.0	10.3
Metabolic Diseases	0.0	4.0	2.8
Malignant Neoplasms	0.0	4.0	10.0
Other	0.0	26.0	25.4
Missing	0.0	0.0	0.2
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	0.0	0.0	0.5
Status 1B	0.0	2.0	1.7
MELD 6-10	0.0	12.0	21.2
MELD 11-14	14.3	18.0	21.2
MELD 15-20	42.9	36.0	27.1
MELD 21-30	0.0	14.0	11.2
MELD 31-40	0.0	2.0	1.2
PELD less than or equal to 10	28.6	10.0	6.4
PELD 11-14	14.3	2.0	2.0
PELD 15-20	0.0	2.0	2.8
PELD 21-30	0.0	2.0	1.4
PELD 31 or greater	0.0	0.0	0.9
Temporarily Inactive	0.0	0.0	2.3
Recipient Medical Condition at Transplant (%)	0.0	0.0	2.0
	85.7	82.0	85.7
Not Hospitalized	14.3	82.0 16.0	
Hospitalized			10.0
	0.0	2.0	4.4
Unknown	0.0	0.0	0.0

\* MELD/PELD score based on laboratory measures at the time of transplant is shown unless recipient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005

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.



**Duke University Hospital** 

REGISTRY OFCenter Code: NCDUTRANSPLANTTransplant Program (Organ): Liver<br/>Release Date: January 7, 2025RECIPIENTSBased on Data Available: October 31, 2024

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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=177)	Region (N=1,014)	U.S. (N=10,566)
Cause of Death (%)			
Deceased: Stroke	22.0	25.3	26.2
Deceased: MVA	9.0	11.0	11.0
Deceased: Other	68.9	63.6	62.7
Ethnicity/Race (%)*			
White	69.5	67.9	61.8
African-American	23.7	22.6	18.3
Hispanic/Latino	4.0	6.8	15.0
Asian	0.0	1.5	3.0
Other	2.3	0.9	1.2
Not Reported	0.6	0.4	0.6
Age (%)			
<2 years	0.0	0.4	0.6
2-11 years	2.3	1.0	1.9
12-17	9.0	5.8	3.9
18-34	20.3	26.0	25.3
35-49 years	20.9	30.2	28.9
50-64 years	32.8	28.5	29.5
65-69 years	11.3	5.7	5.6
70+ years	3.4	2.4	4.4
Gender (%)			
Male	55.4	60.6	61.3
Female	44.6	39.4	38.7
Blood Type (%)			
0	44.6	47.3	50.3
A	40.1	38.7	36.3
В	13.0	11.6	11.2
AB	2.3	2.4	2.3
Unknown	0.0	0.0	0.0

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



Duke University Hospital

REGISTRY OFCenter Code: NCDUTRANSPLANTTransplant Program (Organ): Liver<br/>Release Date: January 7, 2025RECIPIENTSBased on Data Available: October 31, 2024

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

## Table C3L. Living donor characteristicsTransplants performed between 07/01/2023 and 06/30/2024

	Percentage in each category		
Donor Characteristic	Center (N=7)	Region (N=50)	U.S. (N=642)
Ethnicity/Race (%)*			
White	100.0	86.0	76.0
African-American	0.0	10.0	3.3
Hispanic/Latino	0.0	4.0	14.3
Asian	0.0	0.0	3.3
Other	0.0	0.0	1.7
Not Reported	0.0	0.0	1.4
Age (%)			
0-11 years	0.0	0.0	0.5
12-17	0.0	0.0	0.0
18-34	14.3	40.0	39.9
35-49 years	71.4	52.0	44.9
50-64 years	14.3	8.0	14.6
65-69 years	0.0	0.0	0.2
70+ years	0.0	0.0	0.0
Gender (%)			
Male	57.1	38.0	43.6
Female	42.9	62.0	56.4
Blood Type (%)			
0	57.1	54.0	65.9
A	28.6	40.0	26.6
В	14.3	4.0	6.7
AB	0.0	2.0	0.8
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%.



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

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

	Percentage in each category		
Transplant Characteristic	Center (N=177)	Region (N=1,014)	U.S. (N=10,566)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-5 hr	5.0	43.0	48.2
Deceased: 6-10 hr	10.0	16.0	24.2
Deceased: 11-15 hr	37.5	18.0	11.9
Deceased: 16-20 hr	36.2	17.7	10.0
Deceased: 21+ hr	11.2	5.3	5.0
Not Reported	0.0	0.0	0.7
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-5 hr	8.2	27.3	29.9
Deceased: 6-10 hr	12.4	37.8	39.3
Deceased: 11-15 hr	25.8	14.8	12.1
Deceased: 16-20 hr	29.9	13.9	11.4
Deceased: 21+ hr	23.7	5.9	6.4
Not Reported	0.0	0.3	0.8
Procedure Type (%)			
Single organ	93.8	93.0	91.0
Multi organ	6.2	7.0	9.0
Donor Location (%)			
Local Donation Service Area (DSA)	45.2	29.6	36.2
Another Donation Service Area (DSA)	54.8	70.4	63.8
Median Time in Hospital After Transplant	11.0 Days	10.0 Days	10.0 Days



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#### C. Transplant Information

TRANSPLANT

RECIPIENTS

## Table C4L. Living donor transplant characteristicsTransplants performed between 07/01/2023 and 06/30/2024

	Percentage in each category		
Transplant Characteristic	Center (N=7)	Region (N=50)	U.S. (N=642)
Relation with Donor (%)			
Related	57.1	40.0	45.8
Unrelated	42.9	60.0	54.0
Not Reported	0.0	0.0	0.2
Procedure Type (%)			
Single organ	100.0	100.0	99.8
Multi organ	0.0	0.0	0.2
Median Time in Hospital After Transplant	12.0 Days	13.0 Days	10.0 Days



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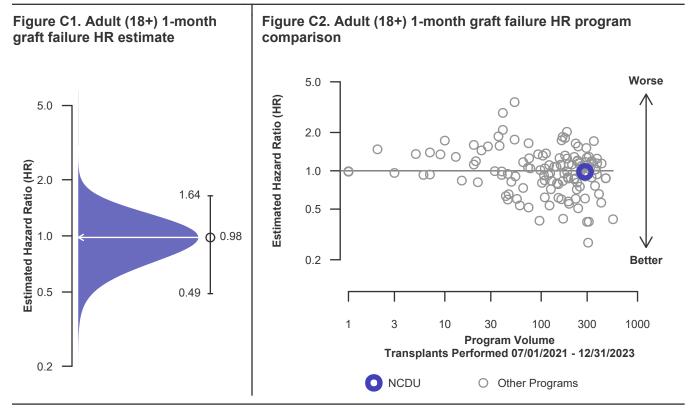
### C. Transplant Information

# Table C5. Adult (18+) 1-month survival with a functioning graftSingle organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	285	21,168
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	96.84% [94.83%-98.89%]	97.12% [96.89%-97.34%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.82%	
Number of observed graft failures (including deaths) during the first month after transplant	9	610
Number of expected graft failures (including deaths) during the first month after transplant	9.21	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.49, 1.64]	

\* 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, [0.49, 1.64], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 51% reduced risk up to 64% increased risk.





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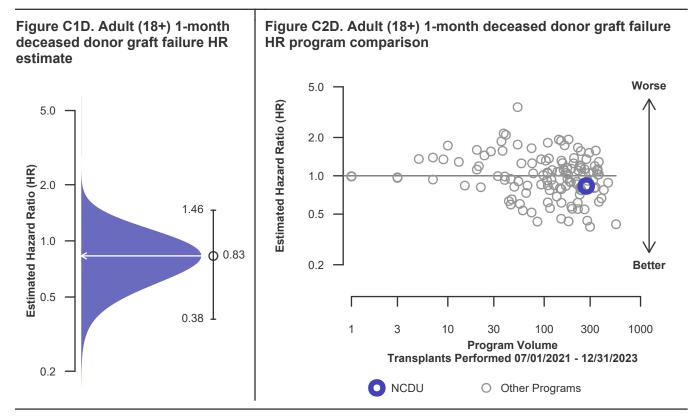
## C. Transplant Information

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

	NCDU	U.S.
Number of transplants evaluated	273	19,827
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.44% [95.58%-99.33%]	97.14% [96.91%-97.37%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.82%	
Number of observed graft failures (including deaths) during the first month after transplant	7	567
Number of expected graft failures (including deaths) during the first month after transplant	8.83	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.38, 1.46]	

\* 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 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, [0.38, 1.46], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 62% reduced risk up to 46% increased risk.





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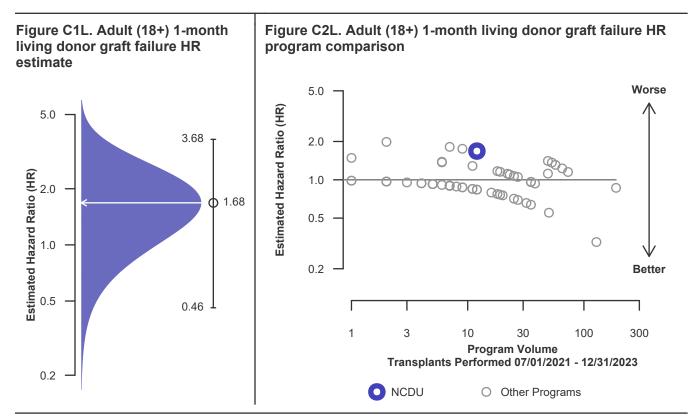
## C. Transplant Information

# Table C5L. Adult (18+) 1-month survival with a functioning living donor graftSingle organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	12	1,341
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [64.70%-100.00%]	96.79% [95.86%-97.74%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.80%	
Number of observed graft failures (including deaths) during the first month after transplant	2	43
Number of expected graft failures (including deaths) during the first month after transplant	0.38	
Estimated hazard ratio*	1.68	
95% credible interval for the hazard ratio**	[0.46, 3.68]	

\* 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, [0.46, 3.68], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 68% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 54% reduced risk up to 268% increased risk.





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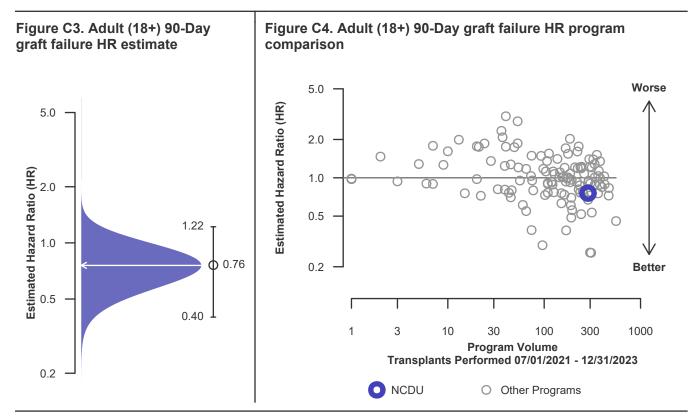
## C. Transplant Information

# Table C6. Adult (18+) 90-Day survival with a functioning graftSingle organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	285	21,168
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	96.14% [93.93%-98.40%]	95.39% [95.11%-95.68%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.82%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	11	975
Number of expected graft failures (including deaths) during the first 90 days after transplant	15.17	
Estimated hazard ratio*	0.76	
95% credible interval for the hazard ratio**	[0.40, 1.22]	

\* 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, [0.40, 1.22], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 24% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 60% reduced risk up to 22% increased risk.





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## C. Transplant Information

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

	NCDU	U.S.
Number of transplants evaluated	273	19,827
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	96.70% [94.61%-98.84%]	95.36% [95.07%-95.66%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.78%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	9	919
Number of expected graft failures (including deaths) during the first 90 days after transplant	14.69	
Estimated hazard ratio*	0.66	
95% credible interval for the hazard ratio**	[0.33, 1.10]	

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

#### Figure C3D. Adult (18+) 90-Day Figure C4D. Adult (18+) 90-Day deceased donor graft failure deceased donor graft failure HR HR program comparison estimate Worse 5.0 Estimated Hazard Ratio (HR) 5.0 2.0 0 Ο Estimated Hazard Ratio (HR) 1.0 2.0 0.5 1.10 1.0 0 0.2 Better 0.66 0.5 0.33 3 1 10 30 100 300 1000 **Program Volume** Transplants Performed 07/01/2021 - 12/31/2023 0.2 NCDU O Other Programs



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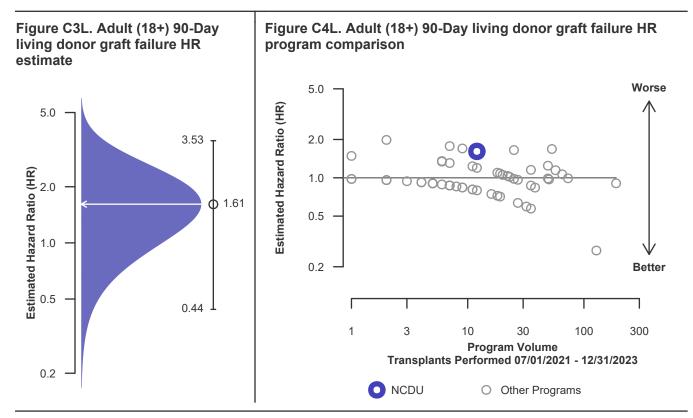
## **C. Transplant Information**

# Table C6L. Adult (18+) 90-Day survival with a functioning living donor graftSingle organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	12	1,341
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [64.70%-100.00%]	95.82% [94.76%-96.90%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.83%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	56
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.48	
Estimated hazard ratio*	1.61	
95% credible interval for the hazard ratio**	[0.44, 3.53]	

\* 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, [0.44, 3.53], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 61% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 56% reduced risk up to 253% increased risk.





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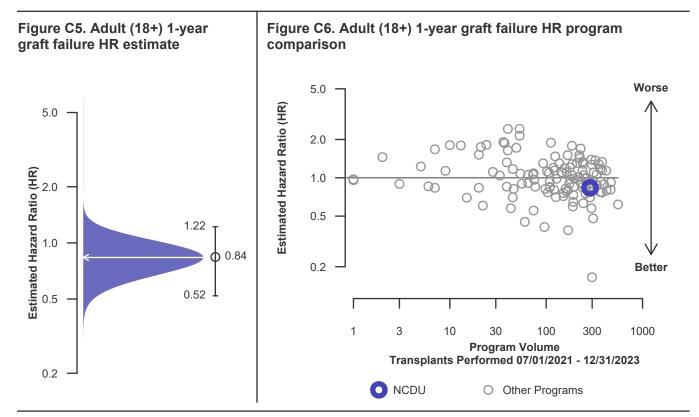
## C. Transplant Information

# Table C7. Adult (18+) 1-year survival with a functioning graftSingle organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	285	21,168
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	91.90% [88.50%-95.43%]	92.24% [91.87%-92.62%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.25%	
Number of observed graft failures (including deaths) during the first year after transplant	20	1,560
Number of expected graft failures (including deaths) during the first year after transplant	24.34	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.52, 1.22]	

\* 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, [0.52, 1.22], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 16% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 48% reduced risk up to 22% increased risk.





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## C. Transplant Information

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

	NCDU	U.S.
Number of transplants evaluated	273	19,827
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	92.28% [88.86%-95.83%]	92.14% [91.75%-92.53%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.14%	
Number of observed graft failures (including deaths) during the first year after transplant	18	1,479
Number of expected graft failures (including deaths) during the first year after transplant	23.67	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.48, 1.16]	

\* 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, [0.48, 1.16], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 22% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 52% reduced risk up to 16% increased risk.

#### Figure C5D. Adult (18+) 1-year Figure C6D. Adult (18+) 1-year deceased donor graft failure deceased donor graft failure HR HR program comparison estimate Worse 5.0 Estimated Hazard Ratio (HR) 5.0 2.0 Estimated Hazard Ratio (HR) 1.0 2.0 0 C 0 0.5 00 0 $\bigcirc$ 1.16 1.0 0.78 0.2 Better 0 0.5 0.48 3 1 10 30 100 300 1000 **Program Volume** Transplants Performed 07/01/2021 - 12/31/2023 0.2 NCDU O Other Programs



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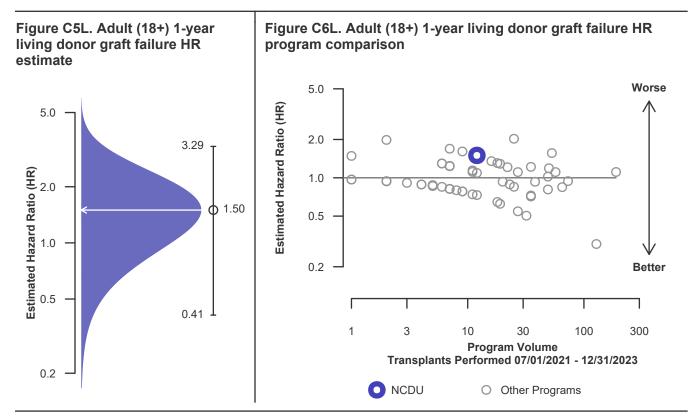
## C. Transplant Information

## Table C7L. Adult (18+) 1-year survival with a functioning living donor graftSingle organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	12	1,341
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [64.70%-100.00%]	93.76% [92.45%-95.09%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.76%	
Number of observed graft failures (including deaths) during the first year after transplant	2	81
Number of expected graft failures (including deaths) during the first year after transplant	0.67	
Estimated hazard ratio*	1.50	
95% credible interval for the hazard ratio**	[0.41, 3.29]	

\* 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, [0.41, 3.29], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 50% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 59% reduced risk up to 229% increased risk.





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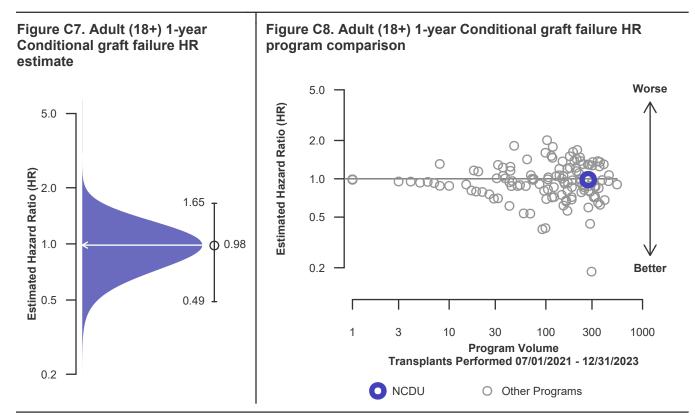
### **C. Transplant Information**

#### Table C8. Adult (18+) 1-year Conditional survival with a functioning graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	274	20,193
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [95% C	95.59% 94.22%-96.97%]	96.70% [96.59%-96.80%]
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)	96.24%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	9	585
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	9.17	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.49, 1.65]	

\* 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, [0.49, 1.65], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 51% reduced risk up to 65% increased risk.





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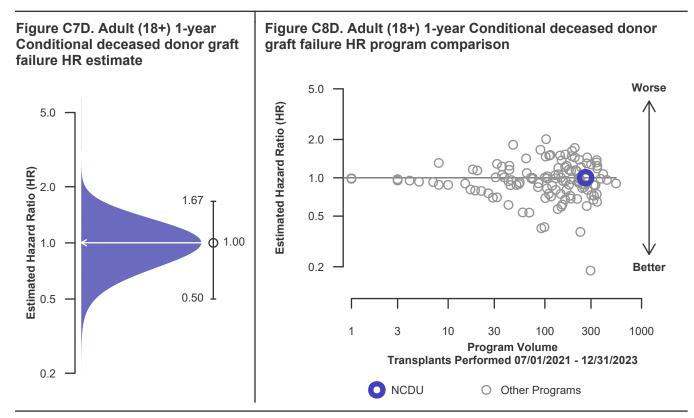
## **C. Transplant Information**

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

	NCDU	U.S.
Number of transplants evaluated	264	18,908
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [95% C	s 95.43% 93.93%-96.95%]	96.62% [96.51%-96.73%]
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)	96.16%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	9	560
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	8.98	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.50, 1.67]	

\* 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, [0.50, 1.67], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 0% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 50% reduced risk up to 67% increased risk.





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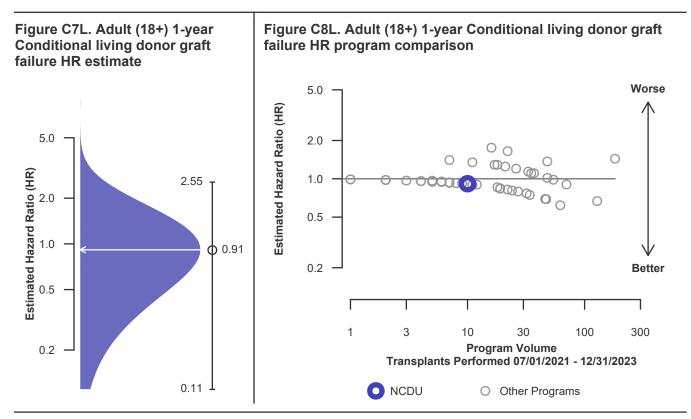
## C. Transplant Information

#### Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	10	1,285
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	97.85% [97.56%-98.13%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.85%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	25
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.19	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.11, 2.55]	

\* 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, [0.11, 2.55], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 9% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 89% reduced risk up to 155% increased risk.





REGISTRY <u>야</u> Center Code: NCDU Transplant Program (Organ): Liver TRANSPLANT Release Date: January 7, 2025

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### **C. Transplant Information**

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

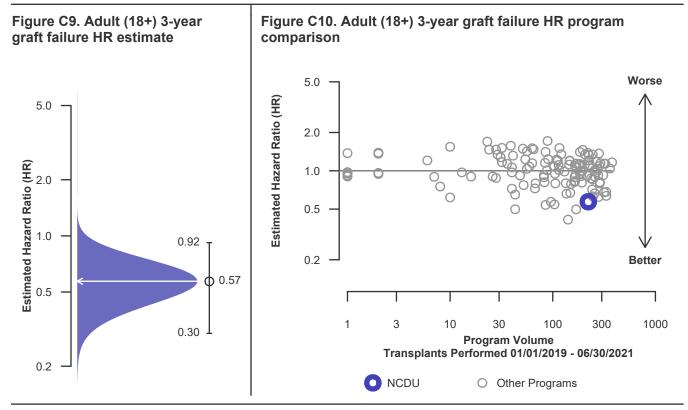
#### Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	NCDU	U.S.
Number of transplants evaluated	222	17,361
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	91.78% [86.90%-96.94%]	86.01% [85.36%-86.67%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.66%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	11	1,701
Number of expected graft failures (including deaths) during the first 3 years after transplant	20.76	
Estimated hazard ratio*	0.57	
95% credible interval for the hazard ratio**	[0.30, 0.92]	

\* 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, [0.30, 0.92], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 43% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 70% reduced risk up to 8% reduced risk.





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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 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

	NCDU	U.S.
Number of transplants evaluated	216	16,325
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	92.65% [87.79%-97.78%]	85.90% [85.22%-86.58%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.62%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	9	1,611
Number of expected graft failures (including deaths) during the first 3 years after transplant	20.22	
Estimated hazard ratio*	0.50	
95% credible interval for the hazard ratio**	[0.25, 0.83]	

\* 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, [0.25, 0.83], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 50% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 75% reduced risk up to 17% reduced risk.

#### Figure C9D. Adult (18+) 3-year Figure C10D. Adult (18+) 3-year deceased donor graft failure deceased donor graft failure HR HR program comparison estimate Worse 5.0 Estimated Hazard Ratio (HR) 5.0 2.0 C 0 0 Estimated Hazard Ratio (HR) 1.0 2.0 0 $\cap$ 0.5 1.0 0.83 0.2 **Better** 0.50 0.5 10 1 3 30 100 300 1000 **Program Volume** 0.25 Transplants Performed 01/01/2019 - 06/30/2021 0.2 NCDU O Other Programs



Center Code: NCDU REGISTRY <u>야</u> Transplant Program (Organ): Liver TRANSPLANT Release Date: January 7, 2025 RECIPIENTS

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#### C. Transplant Information

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

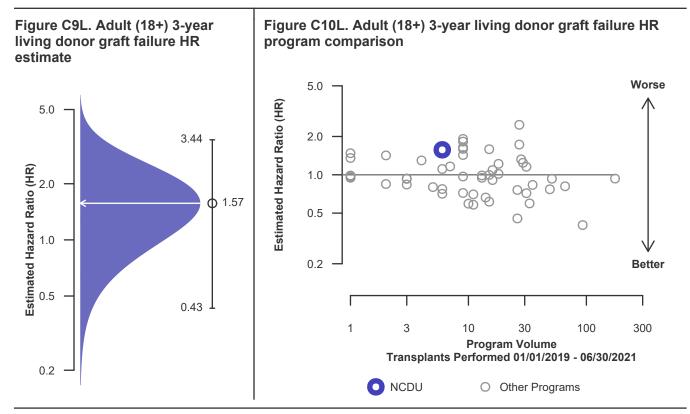
#### Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	NCDU	U.S.
Number of transplants evaluated	6	1,036
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	62.50% [32.00%-100.00%]	87.78% [85.32%-90.31%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.13%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	90
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.55	
Estimated hazard ratio*	1.57	
95% credible interval for the hazard ratio**	[0.43, 3.44]	

\* 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, 3.44], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 57% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 57% reduced risk up to 244% increased risk.





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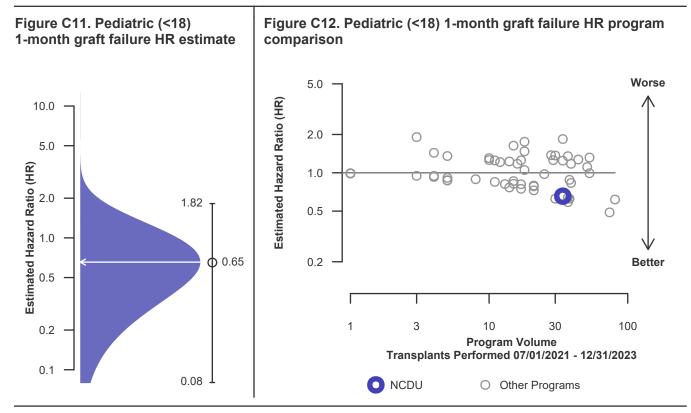
## C. Transplant Information

## Table C10. Pediatric (<18) 1-month survival with a functioning graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	34	1,239
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%]	96.05% [94.97%-97.14%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.96%	
Number of observed graft failures (including deaths) during the first month after transplant	0	49
Number of expected graft failures (including deaths) during the first month after transplant	1.05	
Estimated hazard ratio*	0.65	
95% credible interval for the hazard ratio**	[0.08, 1.82]	

\* 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, [0.08, 1.82], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 35% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 92% reduced risk up to 82% increased risk.





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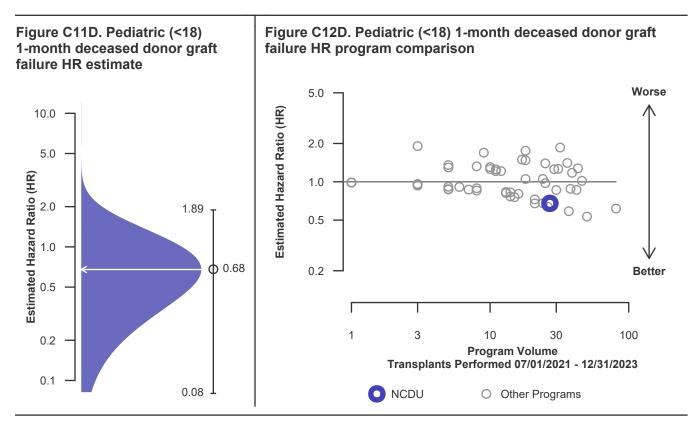
## C. Transplant Information

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

	NCDU	U.S.
Number of transplants evaluated	27	1,026
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%]	95.52% [94.26%-96.79%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.54%	
Number of observed graft failures (including deaths) during the first month after transplant	0	46
Number of expected graft failures (including deaths) during the first month after transplant	0.95	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.08, 1.89]	

\* 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, [0.08, 1.89], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 32% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 92% reduced risk up to 89% increased risk.





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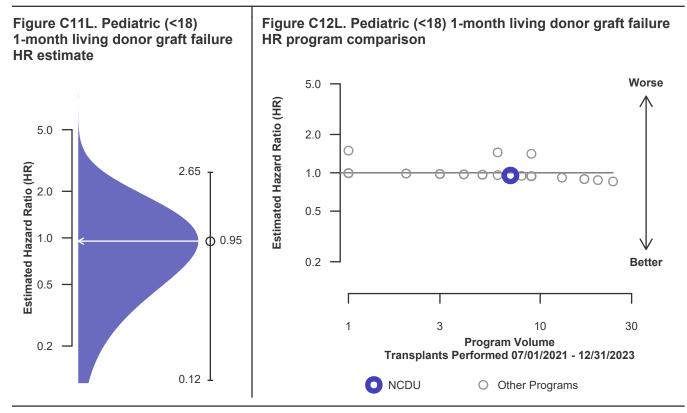
## C. Transplant Information

## Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	7	213
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%]	98.59% [97.02%-100.00%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.59%	
Number of observed graft failures (including deaths) during the first month after transplant	0	3
Number of expected graft failures (including deaths) during the first month after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.65]	

\* 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, [0.12, 2.65], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 88% reduced risk up to 165% increased risk.





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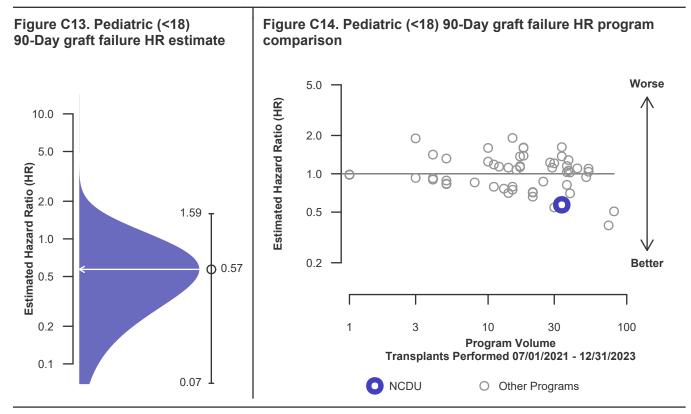
## C. Transplant Information

## Table C11. Pediatric (<18) 90-Day survival with a functioning graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	34	1,239
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.75% [93.52%-96.00%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.68%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	65
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.51	
Estimated hazard ratio*	0.57	
95% credible interval for the hazard ratio**	[0.07, 1.59]	

\* 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, [0.07, 1.59], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 43% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 93% reduced risk up to 59% increased risk.





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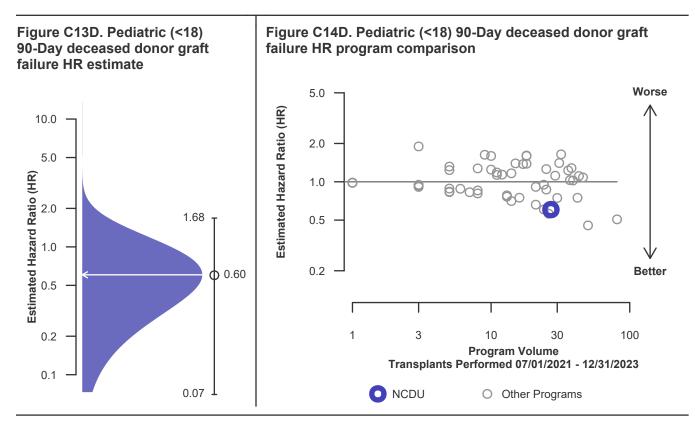
## C. Transplant Information

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

	NCDU	U.S.
Number of transplants evaluated	27	1,026
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.25% [92.84%-95.68%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.29%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	59
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.31	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.07, 1.68]	

\* 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, [0.07, 1.68], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 40% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 93% reduced risk up to 68% increased risk.





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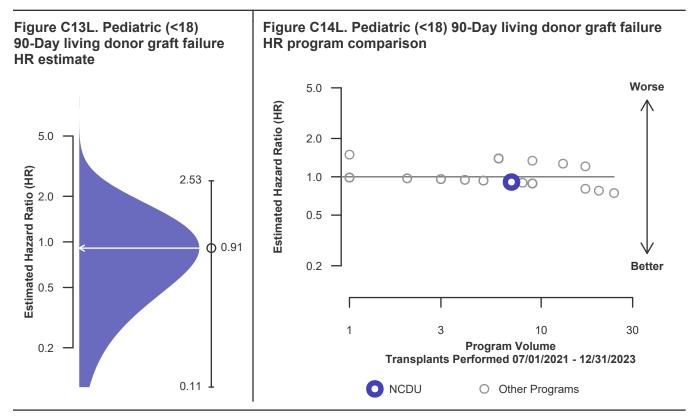
## **C. Transplant Information**

# Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	7	213
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.18% [94.99%-99.43%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.19%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	6
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.20	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.11, 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, [0.11, 2.53], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 9% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 89% reduced risk up to 153% increased risk.





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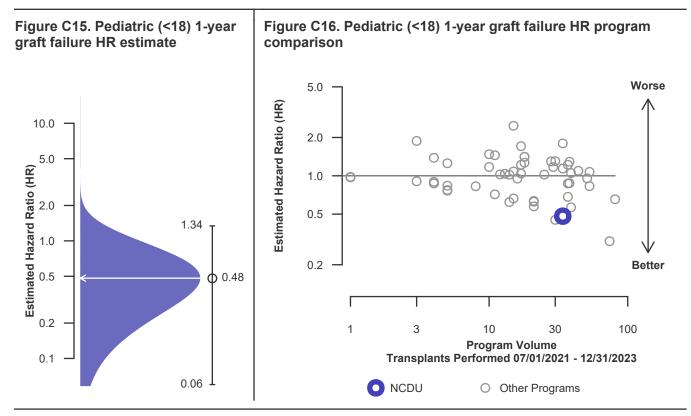
## C. Transplant Information

## Table C12. Pediatric (<18) 1-year survival with a functioning graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	34	1,239
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	92.90% [91.46%-94.36%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.56%	
Number of observed graft failures (including deaths) during the first year after transplant	0	86
Number of expected graft failures (including deaths) during the first year after transplant	2.15	
Estimated hazard ratio*	0.48	
95% credible interval for the hazard ratio**	[0.06, 1.34]	

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





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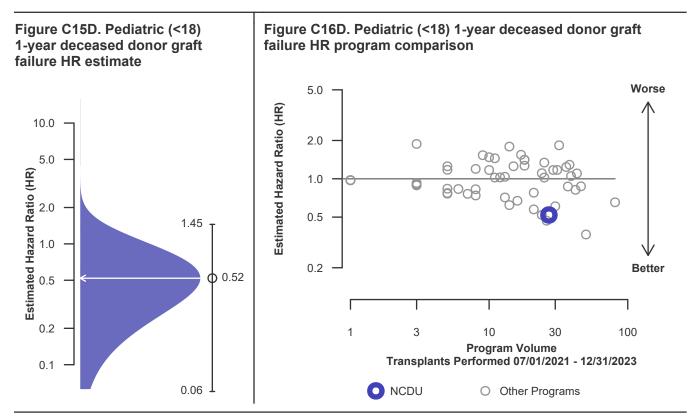
## C. Transplant Information

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

	NCDU	U.S.
Number of transplants evaluated	27	1,026
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	92.33% [90.69%-93.99%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.01%	
Number of observed graft failures (including deaths) during the first year after transplant	0	77
Number of expected graft failures (including deaths) during the first year after transplant	1.85	
Estimated hazard ratio*	0.52	
95% credible interval for the hazard ratio**	[0.06, 1.45]	

\* 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, [0.06, 1.45], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 48% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 94% reduced risk up to 45% increased risk.





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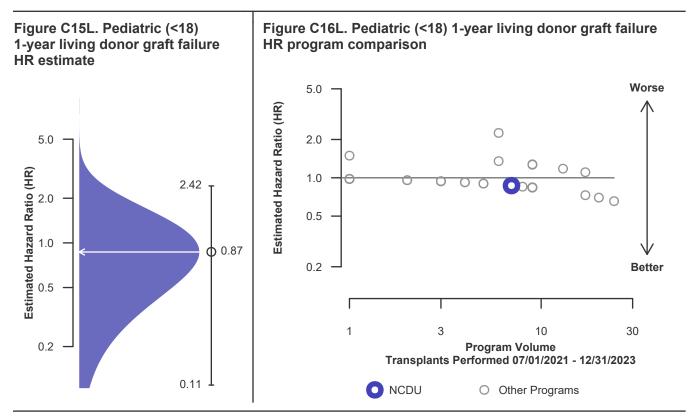
## **C. Transplant Information**

## Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	7	213
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.66% [92.91%-98.48%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.67%	
Number of observed graft failures (including deaths) during the first year after transplant	0	9
Number of expected graft failures (including deaths) during the first year after transplant	0.30	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.11, 2.42]	

\* 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, [0.11, 2.42], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 89% reduced risk up to 142% increased risk.





REGISTRY OF TRANSPLANT RECIPIENTS Center Code: NCDU Transplant Program (Organ): Liver Release Date: January 7, 2025 Based on Data Available: October 31, 2024

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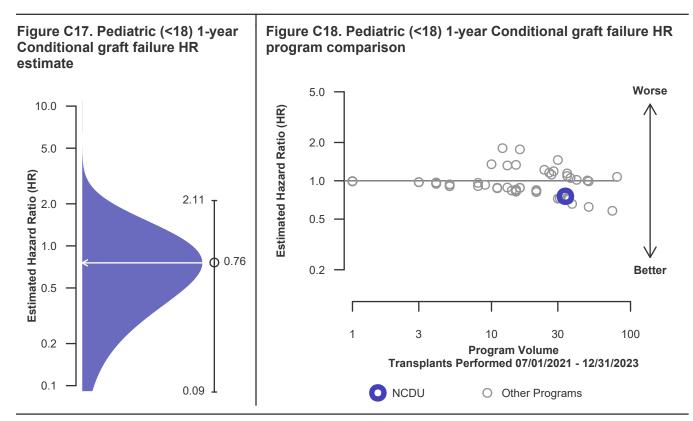
#### **C. Transplant Information**

## Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	34	1,174
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	98.04% [97.80%-98.29%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.78%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	21
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.65	
Estimated hazard ratio*	0.76	
95% credible interval for the hazard ratio**	[0.09, 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, [0.09, 2.11], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 24% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 91% reduced risk up to 111% increased risk.





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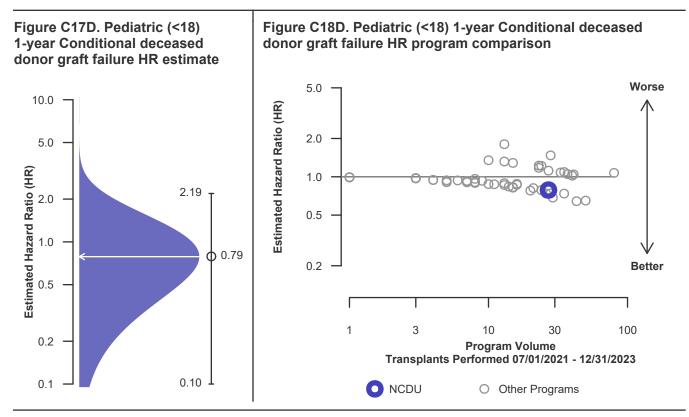
#### **C. Transplant Information**

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

	NCDU	U.S.
Number of transplants evaluated	27	967
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 0.00%-100.00%]	97.96% [97.69%-98.23%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.61%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	18
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.54	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.10, 2.19]	

\* 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, [0.10, 2.19], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 90% reduced risk up to 119% increased risk.





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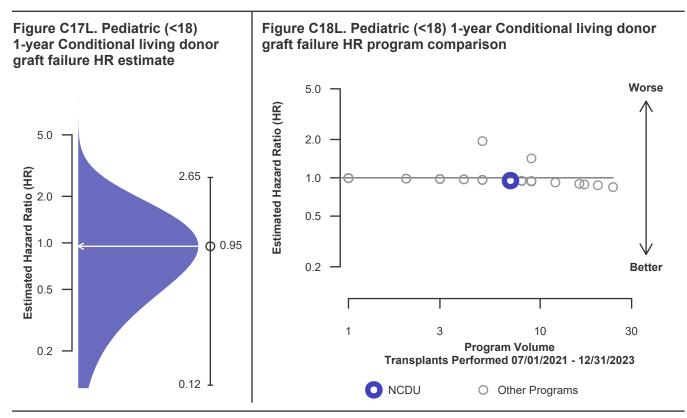
### **C. Transplant Information**

## Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Deaths and retransplants are considered graft failures

	NCDU	U.S.
Number of transplants evaluated	7	207
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 0.00%-100.00%]	98.43% [97.82%-99.05%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	98.43%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	3
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.65]	

\* 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, [0.12, 2.65], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 88% reduced risk up to 165% increased risk.





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### **C. Transplant Information**

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

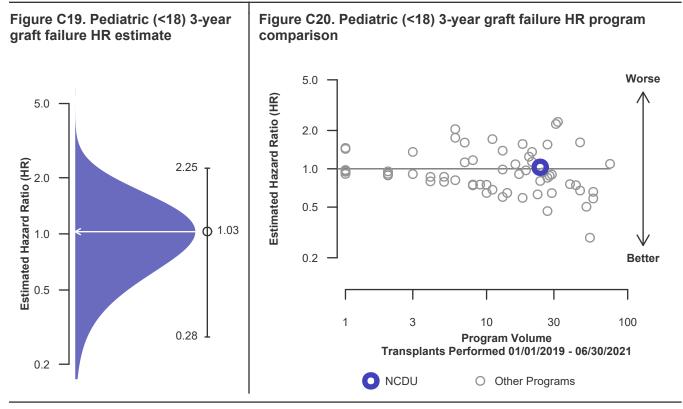
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	NCDU	U.S.
Number of transplants evaluated	24	1,140
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	90.68% [79.17%-100.00%]	88.81% [86.62%-91.05%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.33%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	98
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.89	
Estimated hazard ratio*	1.03	
95% credible interval for the hazard ratio**	[0.28, 2.25]	

\* 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, 2.25], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 3% higher risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 72% reduced risk up to 125% increased risk.





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## **C. Transplant Information**

#### Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft

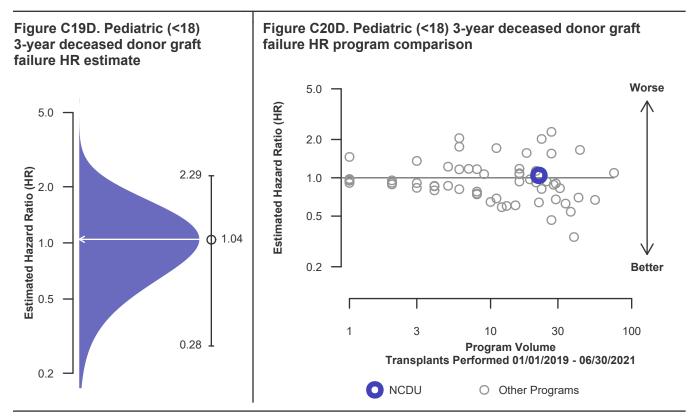
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	NCDU	U.S.
Number of transplants evaluated	22	971
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	90.23% [78.22%-100.00%]	88.46% [86.07%-90.91%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.18%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	87
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.83	
Estimated hazard ratio*	1.04	
95% credible interval for the hazard ratio**	[0.28, 2.29]	

\* 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, 2.29], 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 129% increased risk.





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## C. Transplant Information

#### Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft

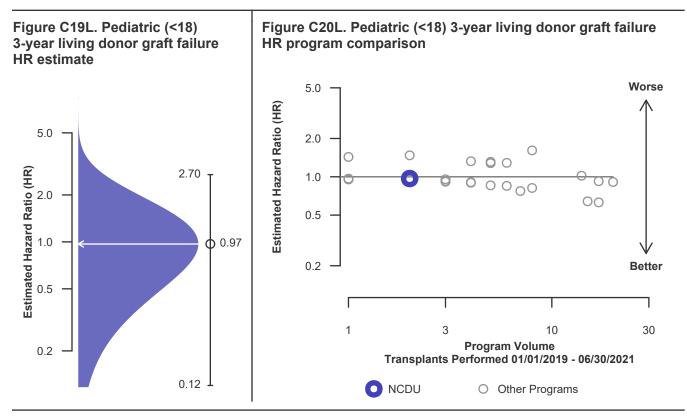
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	NCDU	U.S.
Number of transplants evaluated	2	169
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	90.94% [85.67%-96.53%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.98%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	11
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.70]	

\* 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, [0.12, 2.70], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but NCDU's performance could plausibly range from 88% reduced risk up to 170% increased risk.





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## C. Transplant Information

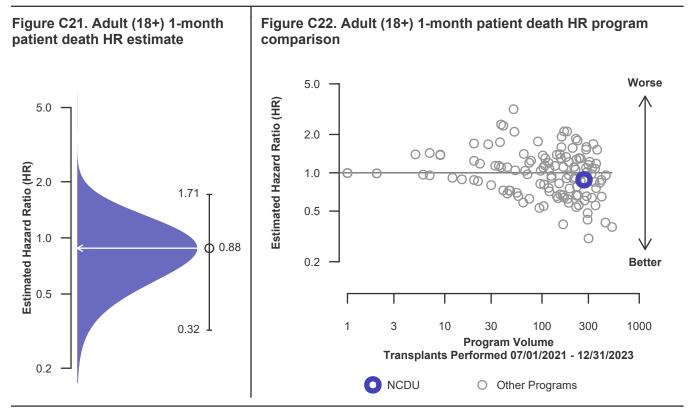
#### Table C15. Adult (18+) 1-month patient survival

Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	270	20,474
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.52% [97.09%-99.97%]	98.25% [98.07%-98.43%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.23%	
Number of observed deaths during the first month after transplant	4	358
Number of expected deaths during the first month after transplant	4.82	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.32, 1.71]	

\* 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, [0.32, 1.71], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 12% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 68% reduced risk up to 71% increased risk.





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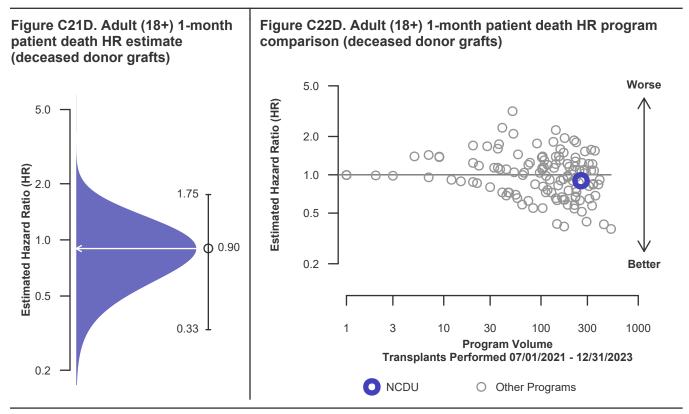
## **C. Transplant Information**

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

	NCDU	U.S.
Number of transplants evaluated	258	19,149
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.45% [96.95%-99.97%]	98.21% [98.02%-98.40%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.20%	
Number of observed deaths during the first month after transplant	4	343
Number of expected deaths during the first month after transplant	4.68	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.33, 1.75]	

\* 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 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, [0.33, 1.75], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 10% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 67% reduced risk up to 75% increased risk.





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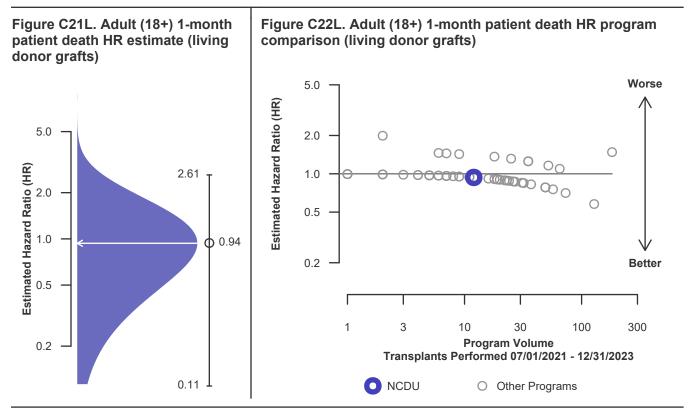
## C. Transplant Information

## Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	12	1,325
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.87% [98.30%-99.44%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.87%	
Number of observed deaths during the first month after transplant	0	15
Number of expected deaths during the first month after transplant	0.14	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.61]	

\* 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, [0.11, 2.61], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 6% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 89% reduced risk up to 161% increased risk.





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## C. Transplant Information

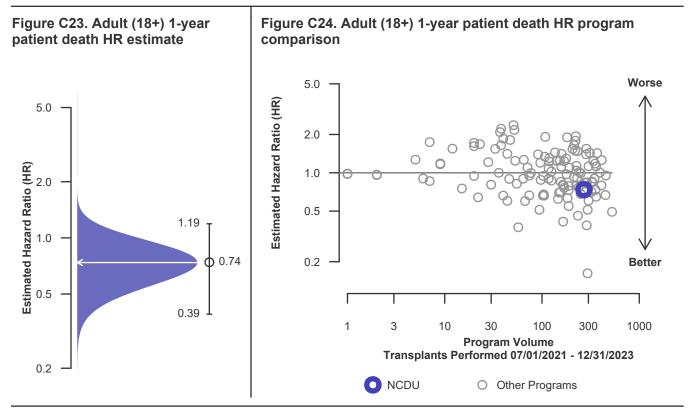
#### Table C16. Adult (18+) 1-year patient survival

Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	270	20,474
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.20% [92.44%-98.05%]	94.17% [93.84%-94.50%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.92%	
Number of observed deaths during the first year after transplant	11	1,125
Number of expected deaths during the first year after transplant	15.63	
Estimated hazard ratio*	0.74	
95% credible interval for the hazard ratio**	[0.39, 1.19]	

\* 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, [0.39, 1.19], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 26% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 61% reduced risk up to 19% increased risk.





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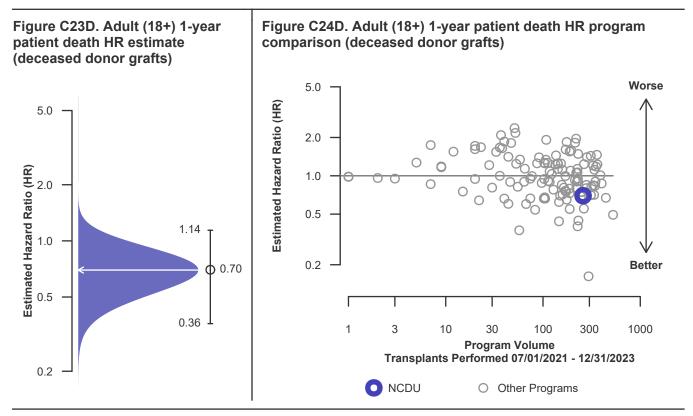
## **C. Transplant Information**

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

	NCDU	U.S.
Number of transplants evaluated	258	19,149
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.52% [92.80%-98.31%]	94.03% [93.68%-94.38%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.81%	
Number of observed deaths during the first year after transplant	10	1,078
Number of expected deaths during the first year after transplant	15.21	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.36, 1.14]	

\* 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, [0.36, 1.14], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 30% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 64% reduced risk up to 14% increased risk.





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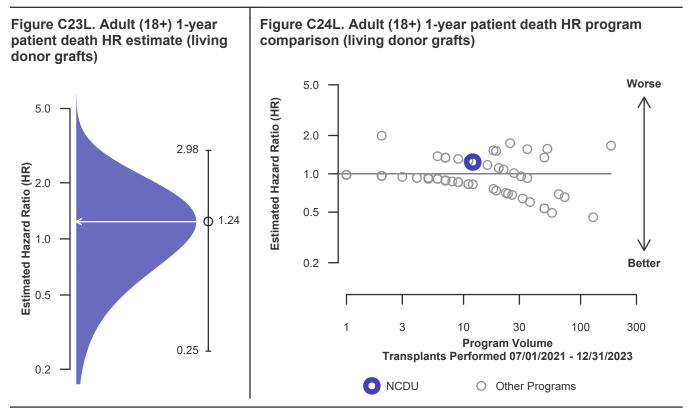
## **C. Transplant Information**

## Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)Single organ transplants performed between 07/01/2021 and 12/31/2023Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	12	1,325
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	88.89% [70.56%-100.00%]	96.23% [95.17%-97.30%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.23%	
Number of observed deaths during the first year after transplant	1	47
Number of expected deaths during the first year after transplant	0.43	
Estimated hazard ratio*	1.24	
95% credible interval for the hazard ratio**	[0.25, 2.98]	

\* 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, [0.25, 2.98], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 24% higher risk of patient death compared to an average program, but NCDU's performance could plausibly range from 75% reduced risk up to 198% increased risk.





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### **C. Transplant Information**

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

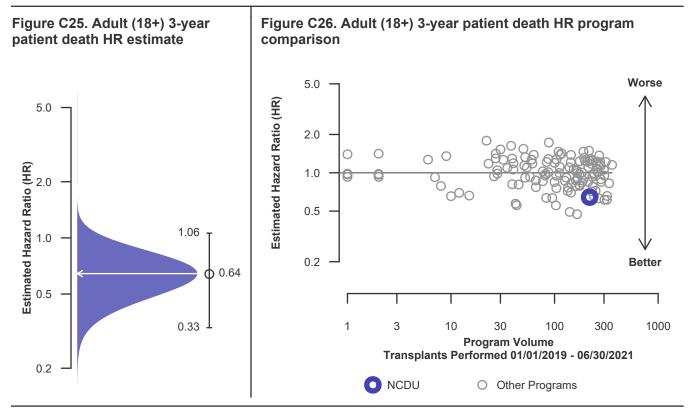
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	NCDU	U.S.
Number of transplants evaluated	218	16,722
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	91.98% [87.04%-97.19%]	88.25% [87.62%-88.89%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.56%	
Number of observed deaths during the first 3 years after transplant	10	1,311
Number of expected deaths during the first 3 years after transplant	16.65	
Estimated hazard ratio*	0.64	
95% credible interval for the hazard ratio**	[0.33, 1.06]	

\* 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, [0.33, 1.06], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 36% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 67% reduced risk up to 6% increased risk.





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## **C. Transplant Information**

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

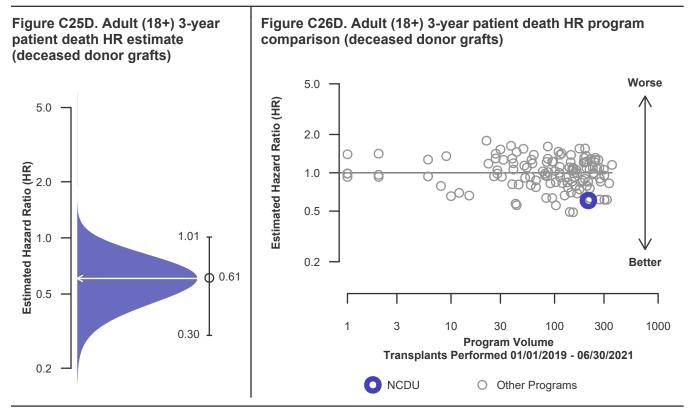
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	NCDU	U.S.
Number of transplants evaluated	212	15,697
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	92.31% [87.29%-97.62%]	88.08% [87.42%-88.74%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.49%	
Number of observed deaths during the first 3 years after transplant	9	1,249
Number of expected deaths during the first 3 years after transplant	16.15	
Estimated hazard ratio*	0.61	
95% credible interval for the hazard ratio**	[0.30, 1.01]	

\* 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, [0.30, 1.01], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 39% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 70% reduced risk up to 1% increased risk.





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## **C. Transplant Information**

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

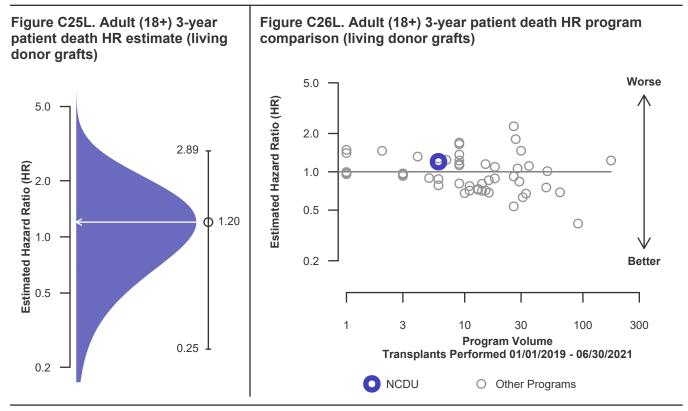
## Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	NCDU	U.S.
Number of transplants evaluated	6	1,025
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	80.00% [51.61%-100.00%]	90.87% [88.63%-93.17%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.10%	
Number of observed deaths during the first 3 years after transplant	1	62
Number of expected deaths during the first 3 years after transplant	0.50	
Estimated hazard ratio*	1.20	
95% credible interval for the hazard ratio**	[0.25, 2.89]	

\* 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, [0.25, 2.89], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 20% higher risk of patient death compared to an average program, but NCDU's performance could plausibly range from 75% reduced risk up to 189% increased risk.





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## C. Transplant Information

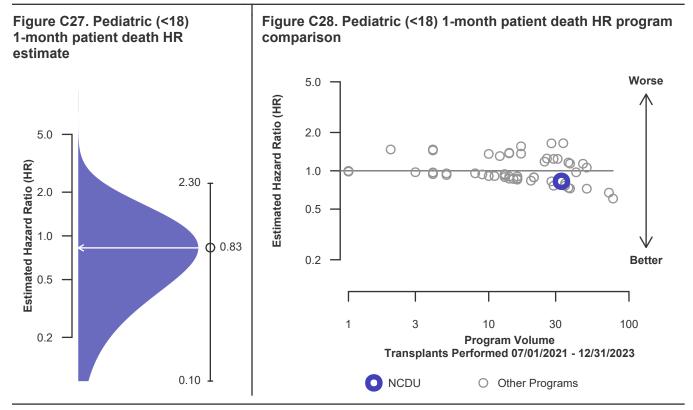
#### Table C18. Pediatric (<18) 1-month patient survival

Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	33	1,174
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.04% [97.25%-98.84%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.74%	
Number of observed deaths during the first month after transplant	0	23
Number of expected deaths during the first month after transplant	0.42	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.10, 2.30]	

\* 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, [0.10, 2.30], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 17% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 90% reduced risk up to 130% increased risk.





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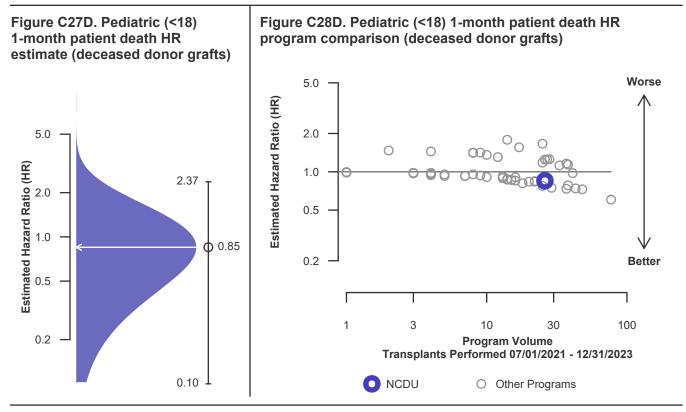
## **C. Transplant Information**

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

	NCDU	U.S.
Number of transplants evaluated	26	961
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.81% [96.89%-98.74%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.65%	
Number of observed deaths during the first month after transplant	0	21
Number of expected deaths during the first month after transplant	0.35	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.10, 2.37]	

\* 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, [0.10, 2.37], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 15% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 90% reduced risk up to 137% increased risk.





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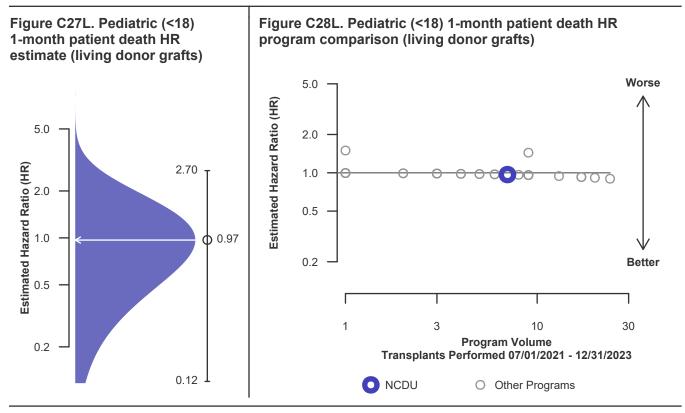
## C. Transplant Information

## Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)</th> Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	7	213
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.06% [97.77%-100.00%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.06%	
Number of observed deaths during the first month after transplant	0	2
Number of expected deaths during the first month after transplant	0.07	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.70]	

\* 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, [0.12, 2.70], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 88% reduced risk up to 170% increased risk.





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## C. Transplant Information

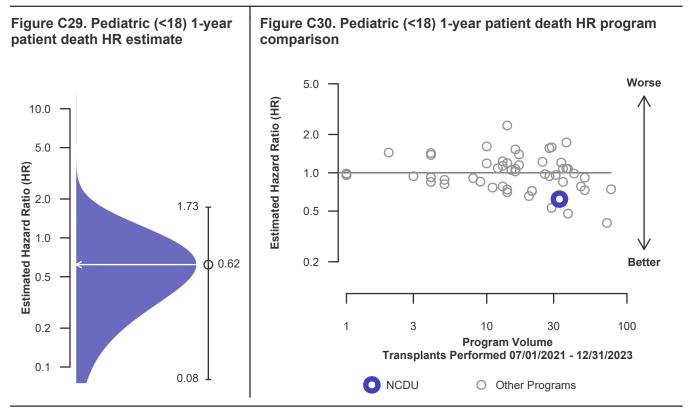
#### Table C19. Pediatric (<18) 1-year patient survival

Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	33	1,174
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.28% [94.05%-96.52%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.20%	
Number of observed deaths during the first year after transplant	0	54
Number of expected deaths during the first year after transplant	1.22	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.08, 1.73]	

\* 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, [0.08, 1.73], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 38% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 92% reduced risk up to 73% increased risk.





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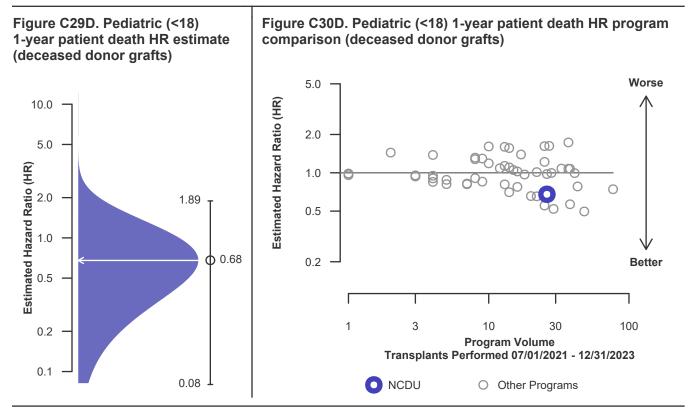
### **C. Transplant Information**

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

	NCDU	U.S.
Number of transplants evaluated	26	961
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.09% [93.71%-96.49%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.22%	
Number of observed deaths during the first year after transplant	0	46
Number of expected deaths during the first year after transplant	0.95	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.08, 1.89]	

\* 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, [0.08, 1.89], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 32% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 92% reduced risk up to 89% increased risk.





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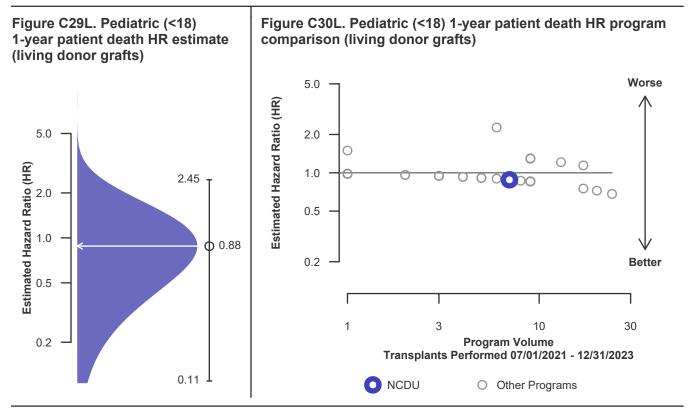
## **C. Transplant Information**

## Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)</th>Single organ transplants performed between 07/01/2021 and 12/31/2023Retransplants excluded

	NCDU	U.S.
Number of transplants evaluated	7	213
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	96.12% [93.52%-98.80%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.13%	
Number of observed deaths during the first year after transplant	0	8
Number of expected deaths during the first year after transplant	0.27	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.45]	

\* 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, [0.11, 2.45], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 12% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 89% reduced risk up to 145% increased risk.





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## **C. Transplant Information**

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

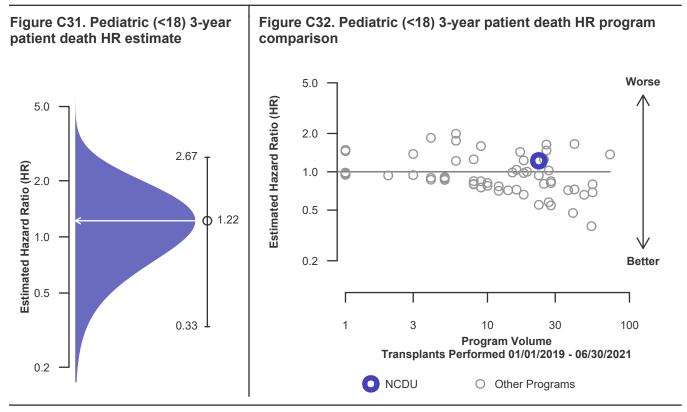
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	NCDU	U.S.
Number of transplants evaluated	23	1,068
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	90.23% [78.22%-100.00%]	92.67% [90.78%-94.60%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.08%	
Number of observed deaths during the first 3 years after transplant	2	58
Number of expected deaths during the first 3 years after transplant	1.28	
Estimated hazard ratio*	1.22	
95% credible interval for the hazard ratio**	[0.33, 2.67]	

\* 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, [0.33, 2.67], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 22% higher risk of patient death compared to an average program, but NCDU's performance could plausibly range from 67% reduced risk up to 167% increased risk.





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## **C. Transplant Information**

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

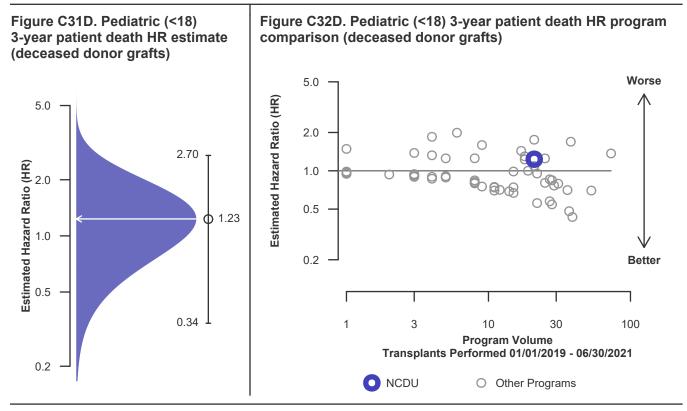
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	NCDU	U.S.
Number of transplants evaluated	21	901
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	89.72% [77.18%-100.00%]	92.50% [90.44%-94.60%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.93%	
Number of observed deaths during the first 3 years after transplant	2	51
Number of expected deaths during the first 3 years after transplant	1.25	
Estimated hazard ratio*	1.23	
95% credible interval for the hazard ratio**	[0.34, 2.70]	

\* 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, [0.34, 2.70], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 23% higher risk of patient death compared to an average program, but NCDU's performance could plausibly range from 66% reduced risk up to 170% increased risk.





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## C. Transplant Information

#### Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

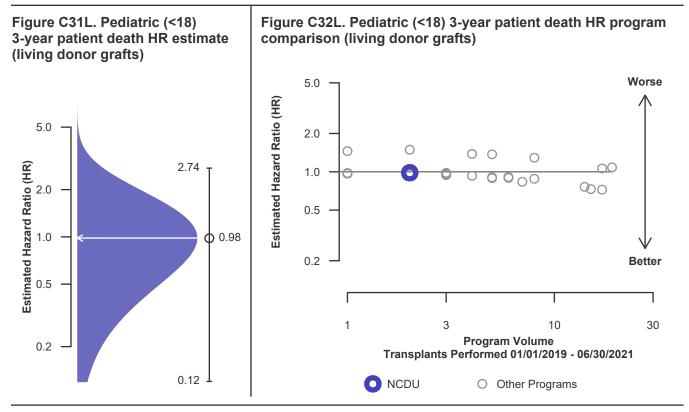
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

· · · · ·	NCDU	U.S.
Number of transplants evaluated	2	167
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	93.60% [88.84%-98.62%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.63%	
Number of observed deaths during the first 3 years after transplant	0	7
Number of expected deaths during the first 3 years after transplant	0.03	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.74]	

\* 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, [0.12, 2.74], indicates the location of NCDU's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but NCDU's performance could plausibly range from 88% reduced risk up to 174% increased risk.





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

#### Table C21. Multi-organ transplant graft survival: 07/01/2021 - 12/31/2023

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Perfor	Transplants Performed NCDU-TX1 USA		Liver Graft Failures NCDU-TX1 USA		d Liver ırvival USA
Kidney-Liver	27	1,936	2	185	92.6%	90.4%
Liver-Heart	6	167	1	34	83.3%	79.6%
Liver-Lung	1	39	0	7	100.0%	82.1%
Pediatric (<18) Transplants			First-Year Outcomes			
Transplant Type	Perfor			er ilures USA	Estimate Graft Sເ NCDU-TX1	
Pancreas-Liver-Intestine	1	40	0	9	100.0%	77.5%

#### Table C22. Multi-organ transplant patient survival: 07/01/2021 - 12/31/2023

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transp Perfor NCDU-TX1	med	Patient D NCDU-TX1	)eaths USA	Estima Patient S NCDU-TX1	urvival
Kidney-Liver Liver-Heart Liver-Lung	27 6 1	1,936 167 39	0 1 0	173 33 7	100.0% 83.3% 100.0%	91.1% 80.2% 82.1%

#### Pediatric (<18) Transplants

Transplant Type	Transplants Performed NCDU-TX1 USA		Patient E NCDU-TX1		Estima Patient S NCDU-TX1	urvival
Pancreas-Liver-Intestine	1	40	0	8	100.0%	80.0%

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.

**First-Year Outcomes** 



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### **D. Living Donor Information**

#### Table D1. Living donor summary: 07/01/2021 - 06/30/2024

		This Center		United States			
Living Donor Follow-Up	07/2021- 06/2022	07/2022- 06/2023	07/2023- 12/2023	07/2021- 06/2022	07/2022- 06/2023	07/2023- 12/2023	
Number of Living Donors	11	4	4	585	633	322	
6-Month Follow-Up Donors due for follow-up	11	4	4	585	633	268	
Timely clinical data	11 100.0%	4 100.0%	4 100.0%	498 85.1%	530 83.7%	221 82.5%	
Timely lab data	10 90.9%	4 100.0%	4 100.0%	498 85.1%	542 85.6%	230 85.8%	
12-Month Follow-Up Donors due for follow-up	11	3		584	575		
Timely clinical data	11 100.0%	3 100.0%		456 78.1%	467 81.2%		
Timely lab data	10 90.9%	3 100.0%		449 76.9%	472 82.1%		
24-Month Follow-Up Donors due for follow-up	10			531			
Timely clinical data	9 90.0%			364 68.5%			
Timely lab data	8 80.0%			362 68.2%			

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