

Center Code: CTYN Transplant Program (Organ): Liver Release Date: January 9, 2024

Based on Data Available: October 31, 2023

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COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

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

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

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

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 7/1/2020-12/31/2022, follow-up through 6/30/2023.

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

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

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



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

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

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

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

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

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

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

As with the July 2023 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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This report contains a wide range of useful information about the liver transplant program at Yale New Haven 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 29.7 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. 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 07/01/2017 and 12/31/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.3 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2023 to calculate a particular percentile of transplant times.

Table B11 contains a summary of the offer acceptance practices of the program. The offer acceptance ratio indicates whether the program is more or less likely to accept offers than the average program. If the offer acceptance ratio is greater than 1.0, then the program tends to accept more offers than average; if the offer acceptance ratio is less than 1.0, then the program tends to accept fewer offers than average. Figure B10 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B11 - B15 similarly show offer acceptance rates for subsets



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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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A. Program Summary

Figure A1. Waiting list and transplant activity

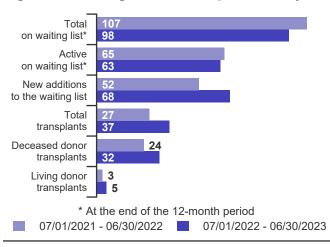


Table A1. Census of transplant recipients

Recipients	07/01/2021- 06/30/2022	07/01/2022- 06/30/2023
Transplanted at this center	27	37
Followed by this center*	360	358
transplanted at this program	n 305	303
transplanted elsewhere	55	55

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

Figure A2. Transplant rates 07/01/2021 - 06/30/2023

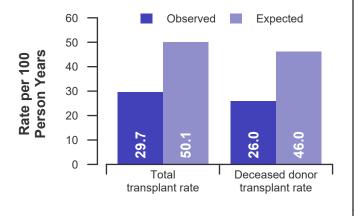


Figure A3. Pre-transplant mortality rates 07/01/2021 - 06/30/2023

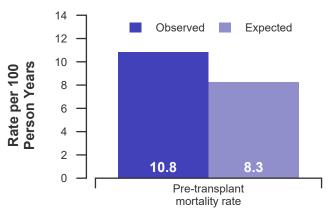


Figure A4. First-year adult graft and patient survival: 07/01/2020 - 12/31/2022

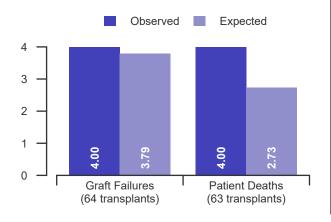
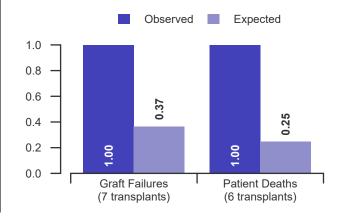


Figure A5. First-year pediatric graft and patient survival: 07/01/2020 - 12/31/2022





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

		ts for center	Activity for 07/01/2022 to 06/30/2023 as percent of registrants on waiting lison 07/01/2022			
Waiting List Registrations	07/01/2021- 06/30/2022	07/01/2022- 06/30/2023	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	130	107	100.0	100.0	100.0	
New listings at this center	52	68	63.6	51.7	122.0	
Removals						
Transferred to another center	2	1	0.9	0.6	1.2	
Received living donor transplant*	3	5	4.7	2.3	5.6	
Received deceased donor transplant*	24	32	29.9	35.2	83.2	
Died	12	12	11.2	6.1	8.4	
Transplanted at another center	3	7	6.5	1.4	2.9	
Deteriorated	8	4	3.7	4.9	9.4	
Recovered	6	5	4.7	9.8	10.2	
Other reasons	17	11	10.3	9.5	10.4	
On waiting list at end of period	107	98	91.6	81.8	90.8	

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

Domographia Characteristic		ting List Regi 022 to 06/30/2		All Waiting List Registrations on 06/30/2023 (%)			
Demographic Characteristic	This Center (N=68)	OPTN Region (N=565)	U.S. (N=13,953)	This Center (N=98)	OPTN Region (N=894)	U.S. (N=10,382)	
AII (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	64.7	83.7	68.3	60.2	82.1	65.8	
African-American	2.9	3.2	7.1	6.1	3.2	7.2	
Hispanic/Latino	22.1	9.0	18.3	25.5	10.6	20.0	
Asian	8.8	3.2	4.1	7.1	3.4	5.1	
Other	1.5	0.9	2.1	1.0	0.7	1.9	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	1.6	2.4	0.0	0.9	1.5	
2-11 years	0.0	1.6	1.6	0.0	1.0	1.6	
12-17 years	0.0	0.7	1.2	3.1	0.6	1.2	
18-34 years	8.8	7.6	7.1	6.1	4.7	6.6	
35-49 years	16.2	21.6	21.7	10.2	22.7	19.7	
50-64 years	60.3	48.0	44.7	66.3	55.5	48.3	
65-69 years	14.7	15.2	15.4	14.3	12.4	16.1	
70+ years	0.0	3.7	5.8	0.0	2.2	5.1	
Gender (%)							
Male	79.4	65.3	61.0	71.4	63.4	59.9	
Female	20.6	34.7	39.0	28.6	36.6	40.1	

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



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

Medical Characteristic		ting List Regi 022 to 06/30/2		All Waiting List Registrations on 06/30/2023 (%)			
medical characteristic	This Center OPTN Region U.S. (N=68) (N=565) (N=13,953)		This Center (N=98)	OPTN Region (N=894)	U.S. (N=10,382)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	33.8	43.5	46.6	48.0	47.8	49.7	
A	47.1	41.9	37.9	39.8	41.1	39.2	
В	17.6	11.7	11.4	11.2	10.1	9.3	
AB	1.5	2.8	4.0	1.0	1.1	1.8	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	1.5	1.9	4.1	2.0	2.0	3.6	
No	98.5	98.1	95.9	98.0	98.0	96.4	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	0.0	2.3	2.7	2.0	1.8	1.3	
Non-Cholestatic Cirrhosis	41.2	28.1	36.0	62.2	63.6	55.1	
Cholestatic Liver Disease/Cirrhosis		4.2	6.1	6.1	5.9	7.9	
Biliary Atresia	0.0	2.3	2.2	0.0	1.3	2.0	
Metabolic Diseases	1.5	1.6	1.7	4.1	1.0	1.3	
Malignant Neoplasms	1.5	9.7	9.9	4.1	8.4	10.5	
Other	50.0	51.7	41.2	21.4	17.9	21.6	
Missing	0.0	0.0	0.2	0.0	0.0	0.2	
Medical Urgency Status/MELD/PEL	_D at Listing	(%)*					
Status 1A	2.9	2.8	2.7	0.0	0.0	0.3	
Status 1B	0.0	0.4	0.4	0.0	0.1	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	19.1	15.8	13.8	29.6	32.0	26.0	
MELD 11-14	20.6	15.6	11.7	28.6	24.8	21.8	
MELD 15-20	14.7	19.5	20.8	24.5	24.4	27.7	
MELD 21-30	20.6	22.3	24.7	14.3	11.5	14.7	
MELD 31-40	17.6	12.4	14.1	1.0	0.7	1.1	
PELD less than or equal to 10	0.0	1.4	1.6	0.0	1.0	1.9	
PELD 11-14	0.0	0.4	0.4	0.0	0.3	0.3	
PELD 15-20	0.0	0.7	0.4	0.0	0.3	0.3	
PELD 21-30	0.0	0.2	0.4	0.0	0.1	0.2	
PELD 31 or greater	0.0	0.2	0.1	0.0	0.0	0.0	
Temporarily Inactive	2.9	6.0	5.0	2.0	4.7	5.6	

^{*} 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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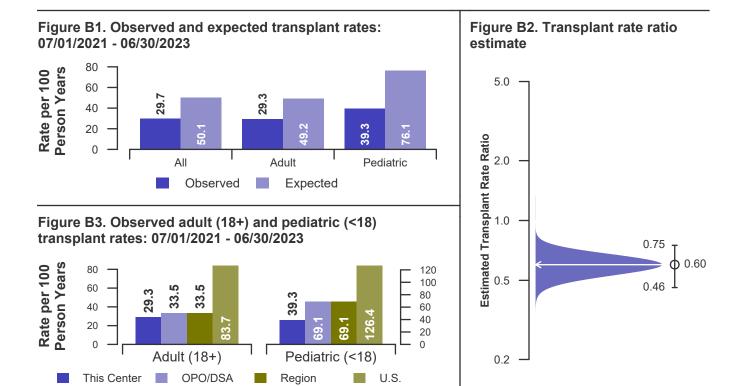
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Table B4. Transplant rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	130	1,175	1,175	12,005
Person Years**	215.8	2,165.3	2,165.3	22,624.2
Removals for Transplant	64	742	742	19,300
Adult (18+) Candidates				
Count on waiting list at start*	126	1,154	1,154	11,621
Person Years**	208.1	2,117.6	2,117.6	21,779.5
Removals for transpant	61	709	709	18,232
Pediatric (<18) Candidates				
Count on waiting list at start*	4	21	21	384
Person Years**	7.6	47.7	47.7	844.7
Removals for transplant	3	33	33	1,068

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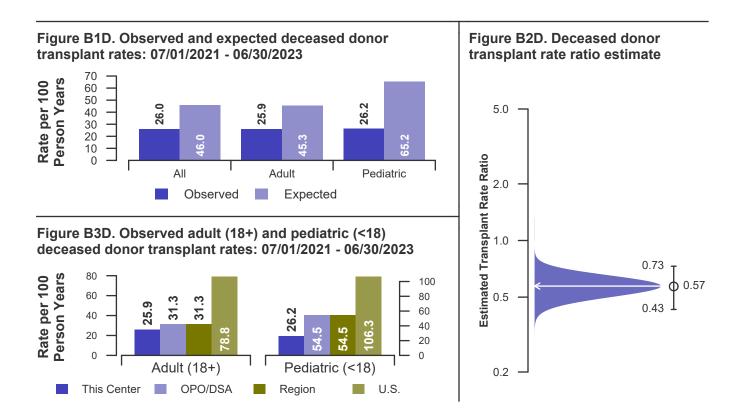
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Table B4D. Deceased donor transplant rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	130	1,175	1,175	12,005
Person Years**	215.8	2,165.3	2,165.3	22,624.2
Removals for Transplant	56	688	688	18,070
Adult (18+) Candidates				
Count on waiting list at start*	126	1,154	1,154	11,621
Person Years**	208.1	2,117.6	2,117.6	21,779.5
Removals for transpant	54	662	662	17,172
Pediatric (<18) Candidates				
Count on waiting list at start*	4	21	21	384
Person Years**	7.6	47.7	47.7	844.7
Removals for transplant	2	26	26	898

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

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





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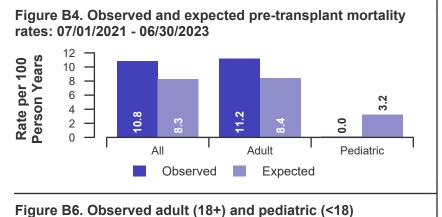
B. Waiting List Information

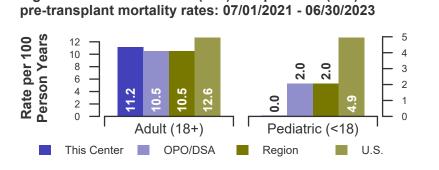
Table B5. Pre-transplant mortality rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				_
Count on waiting list at start*	130	1,175	1,175	12,005
Person Years**	258.7	2,405.8	2,405.8	26,552.0
Number of deaths	28	248	248	3,283
Adult (18+) Candidates				
Count on waiting list at start*	126	1,154	1,154	11,621
Person Years**	251.1	2,356.9	2,356.9	25,619.2
Number of deaths	28	247	247	3,237
Pediatric (<18) Candidates				
Count on waiting list at start*	4	21	21	384
Person Years**	7.6	48.9	48.9	932.7
Number of deaths	0	1	1	46

^{*} 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.





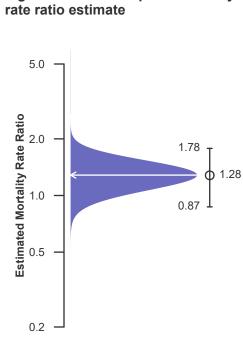


Figure B5. Pre-transplant mortality



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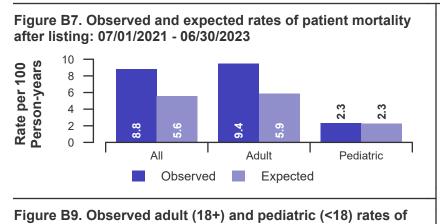
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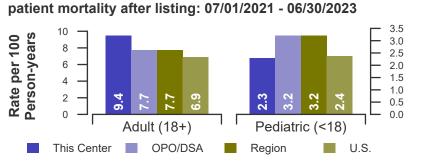
Table B6. Rates of patient mortality after listing: 07/01/2021 - 06/30/2023

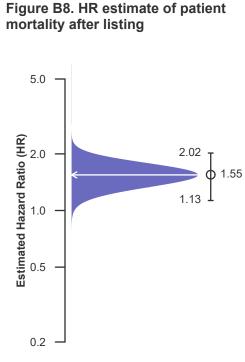
Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	371	3,719	3,719	78,939
Person-years*	498.8	5,114.8	5,114.8	105,820.4
Number of Deaths	44	387	387	6,996
Adult (18+) Patients				
Count at risk during the evaluation period	341	3,573	3,573	74,524
Person-years*	455.1	4,927.1	4,927.1	99,827.4
Number of Deaths	43	381	381	6,854
Pediatric (<18) Patients				
Count at risk during the evaluation period	30	146	146	4,415
Person-years*	43.7	187.7	187.7	5,993.1
Number of Deaths	1	6	6	142

^{*} Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2021, or from the date of first wait listing until death, reaching 5 years after listing or June 30, 2023.

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









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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 01/01/2021 and 12/31/2021

Waiting list status (survival status)	This Center (N=50) Months Since Listing 6 12 18			U.S. (N=13,840) Months Since Listing 6 12 18		
Alive on waiting list (%)	58.0	36.0	22.0	38.2	22.5	15.0
Died on the waiting list without transplant (%)	10.0	14.0	18.0	4.3	5.7	6.3
Removed without transplant (%):						
Condition worsened (status unknown)	4.0	6.0	6.0	4.1	5.8	6.5
Condition improved (status unknown)	2.0	2.0	4.0	1.4	2.4	3.5
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.4	0.4
Other	0.0	0.0	0.0	1.8	3.0	4.0
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	2.0	2.0	2.7	3.4	2.2
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	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	0.1	0.2	0.2
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.1	1.5
Transplant (deceased donor) (%):						
Functioning (alive)	22.0	28.0	24.0	43.1	47.6	34.9
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.4	0.5	0.6
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	4.0	4.0	4.0	2.0	3.1	4.1
Status Yet Unknown*	0.0	8.0	20.0	1.6	5.1	20.1
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.4	0.5
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	14.0	18.0	22.0	6.4	9.0	10.5
Total % known died or removed as unstable	18.0	24.0	28.0	10.5	14.7	17.1
Total % removed for transplant	26.0	42.0	50.0	49.9	60.0	63.7
Total % with known functioning transplant (alive)	22.0	30.0	26.0	45.8	50.9	37.1

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



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Table B7S1. Medical urgency status 1 candidate status after listing Candidates registered on the waiting list between 01/01/2021 and 12/31/2021

Waiting list status (survival status)		This Center (N=2) Months Since listing 6 12 18			U.S. (N=439) Months Since listing 6 12 18		
Alive on waiting list (%)	0.0	0.0	0.0	2.5	1.4	0.9	
Died on the waiting list without transplant (%)	0.0	0.0	0.0	7.3	7.3	7.3	
Removed without transplant (%):							
Condition worsened (status unknown)	0.0	0.0	0.0	5.2	5.2	5.2	
Condition improved (status unknown)	0.0	0.0	0.0	16.9	18.0	18.5	
Refused transplant (status unknown)	0.0	0.0	0.0	0.7	0.7	0.7	
Other	0.0	0.0	0.0	0.5	0.5	0.5	
Transplant (living donor from waiting list only) (%):							
Functioning (alive)	0.0	0.0	0.0	1.1	0.9	0.5	
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	0.2	0.2	
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.2	0.7	
Transplant (deceased donor) (%):							
Functioning (alive)	50.0	50.0	50.0	57.2	49.9	37.1	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.9	0.9	0.9	
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0	
Died	50.0	50.0	50.0	5.7	6.8	7.7	
Status Yet Unknown*	0.0	0.0	0.0	1.4	7.5	19.4	
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.5	0.5	0.5	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	50.0	50.0	50.0	13.2	14.4	 15.3	
Total % known died or removed as unstable	50.0	50.0	50.0	18.5	19.6	20.5	
Total % removed for transplant	100.0	100.0	100.0	66.5	66.5	66.5	
Total % with known functioning transplant (alive)	50.0	50.0	50.0	58.3	50.8	37.6	

^{*} 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 07/01/2017 and 06/30/2020

	Percent transplanted at time periods since listing									
Characteristic		TI	nis Cent	er			Un	ited Sta	ites	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	186	8.6	28.5	33.9	37.1	38,168	22.4	52.0	58.3	60.0
Ethnicity/Race*										
White	138	10.1	29.0	34.8	39.1	26,141	22.6	52.8	58.7	60.3
African-American	13	0.0	15.4	23.1	23.1	3,023	25.5	55.5	61.8	63.5
Hispanic/Latino	30	3.3	26.7	30.0	30.0	6,536	20.6	48.7	56.0	58.0
Asian	4	25.0	50.0	50.0	50.0	1,791	19.9	46.6	55.1	57.8
Other	1	0.0	100.0	100.0	100.0	677	25.7	52.4	58.5	60.3
Unknown	0					0				
Age										
<2 years	4	0.0	0.0	0.0	25.0	831	22.1	72.7	75.7	76.7
2-11 years	2	0.0	50.0	50.0	50.0	641	25.9	68.6	74.1	75.7
12-17 years	6	0.0	33.3	33.3	33.3	433	19.2	56.4	63.7	65.6
18-34 years	11	9.1	27.3	36.4	36.4	2,308	33.2	54.1	58.7	60.3
35-49 years	26	26.9	53.8	53.8	53.8	6,708	32.4	56.3	61.1	62.6
50-64 years	99	6.1	23.2	30.3	34.3	18,964	20.7	51.0	57.5	59.4
65-69 years	32	3.1	21.9	28.1	28.1	6,438	14.9	47.0	54.6	56.6
70+ years	6	16.7	50.0	50.0	66.7	1,845	15.6	46.8	53.6	54.4
Gender										
Male	124	8.9	29.8	35.5	39.5	23,781	22.3	53.3	59.6	61.4
Female	62	8.1	25.8	30.6	32.3	14,387	22.5	50.0	56.1	57.8

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



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Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 07/01/2017 and 06/30/2020

Characteristic	Percent transplanted at time periods since listing This Center United States									
	N			2 years	3 years	N			2 years	3 years
All	186	8.6	28.5	33.9	37.1	38,168	22.4	52.0	58.3	60.0
Blood Type										
0	81	4.9	19.8	22.2	28.4	17,829	21.0	49.5	56.1	58.0
Α	79	12.7	34.2	43.0	44.3	14,209	21.6	50.4	56.9	58.8
В	21	0.0	28.6	33.3	33.3	4,647	25.8	60.3	65.4	66.8
AB	5	40.0	80.0	80.0	80.0	1,483	35.8	71.9	75.0	75.7
Previous Transplant										
Yes	9	11.1	33.3	44.4	55.6	1,858	30.4	53.6	58.2	59.4
No	177	8.5	28.2	33.3	36.2	36,310	22.0	52.0	58.3	60.1
Primary Disease										
Acute Hepatic Necrosis	9	22.2	44.4	44.4	44.4	1,710	53.9	63.2	65.3	66.0
Non-Cholestatic Cirrhosis	149	8.7	26.2	30.9	34.2	25,258	23.6	51.5	57.1	58.9
Cholestatic Liver	7	14.3	28.6	42.9	42.9	2 522	18.0	50.4	58.3	60.4
Disease/Cirrhosis	1	14.3	20.0	42.9	42.9	2,523	10.0	50.4	30.3	60.4
Biliary Atresia	4	0.0	25.0	25.0	50.0	753	15.5	65.3	70.9	73.0
Metabolic Diseases	7	0.0	42.9	57.1	57.1	882	26.3	68.8	74.3	75.9
Malignant Neoplasms	5	0.0	20.0	20.0	20.0	4,895	7.8	47.4	57.2	59.1
Other	5	0.0	60.0	80.0	80.0	2,131	22.5	50.9	58.2	60.2
Missing	0					16	25.0	31.2	37.5	37.5
Medical Urgency Status/MELD/	PELD	at Listing	g*							
Status 1	0					0				
Status 1A	6	33.3	33.3	33.3	50.0	1,173	60.1	60.4	60.6	60.7
Status 1B	0					136	50.7	83.1	83.1	83.1
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	57	1.8	19.3	26.3	31.6	7,199	2.5	37.5	48.6	51.4
MELD 11-14	29	0.0	10.3	13.8	13.8	5,050	3.0	33.2	43.4	46.4
MELD 15-20	40	0.0	20.0	22.5	27.5	8,079	9.6	45.5	53.1	55.3
MELD 21-30	35	25.7	60.0	71.4	71.4	8,666	29.2	62.5	65.9	67.0
MELD 31-40	11	36.4	63.6	63.6	63.6	4,155	71.8	80.3	80.5	80.6
PELD less than or equal to 10	1	0.0	0.0	0.0	0.0	678	10.5	70.4	77.1	79.5
PELD 11-14	0					97	17.5	77.3	83.5	83.5
PELD 15-20	1	0.0	0.0	0.0	0.0	166	21.7	76.5	78.3	78.9
PELD 21-30	0					127	26.0	76.4	78.0	78.0
PELD 31 or greater	1	0.0	100.0	100.0	100.0	36	44.4	72.2	72.2	72.2
Temporarily Inactive	5	0.0	0.0	0.0	0.0	2,606	37.7	55.1	58.6	59.6

^{*} 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 07/01/2017 and 12/31/2022

	Months to Transplant**				
Percentile	Center	OPO/DSA	Region	U.S.	
5th	0.3	0.2	0.2	0.1	
10th	0.7	0.3	0.3	0.2	
25th	6.9	3.5	3.5	0.8	
50th (median time to transplant)	39.0	30.0	30.0	7.1	
75th	Not Observed	Not Observed	Not Observed	Not Observed	

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

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



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

Table B11. Offer Acceptance Practices: (
Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	2,996	19,921	19,921	321,191
Number of Acceptances	29	354	354	8,403
Expected Acceptances	65.4	327.9	327.9	8,403.0
Offer Acceptance Ratio*	0.46	1.08	1.08	1.00
95% Credible Interval**	[0.31, 0.64]			
PHS increased infectious risk				
Number of Offers	425	3,384	3,384	48,437
Number of Acceptances	5	66	66	1,533
Expected Acceptances	10.0	63.0	63.0	1,532.3
Offer Acceptance Ratio*	0.58	1.05	1.05	1.00
95% Credible Interval**	[0.24, 1.09]			
DCD donor				
Number of Offers	1,254	5,744	5,744	104,855
Number of Acceptances	3	63	63	1,143
Expected Acceptances	8.8	35.0	35.0	1,145.0
Offer Acceptance Ratio*	0.46	1.76	1.76	1.00
95% Credible Interval**	[0.15, 0.95]			
HCV+ donor				
Number of Offers	18	888	888	12,160
Number of Acceptances	0	24	24	377
Expected Acceptances	0.6	17.8	17.8	378.7
Offer Acceptance Ratio*	0.78	1.32	1.32	1.00
95% Credible Interval**	[0.09, 2.18]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	2,001	14,127	14,127	199,737
Number of Acceptances	5	68	68	1,219
Expected Acceptances	12.8	65.4	65.4	1,304.3
Offer Acceptance Ratio*	0.47	1.04	1.04	0.93
95% Credible Interval**	[0.19, 0.89]			
Donor more than 500 miles away				
Number of Offers	1,121	7,823	7,823	104,279
Number of Acceptances	3	34	34	1,002
Expected Acceptances	7.7	31.3	31.3	965.9
Offer Acceptance Ratio*	0.51	1.08	1.08	1.04
95% Credible Interval**	[0.17, 1.05]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of Yale New Haven 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, [0.31, 0.64], indicates the location of CTYN's true offer acceptance ratio with 95% probability. The best estimate is 54% less likely to accept an offer compared to national acceptance behavior, but CTYN's performance could plausibly range from 69% reduced acceptance up to 36%



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Figure B10. Offer acceptance: Overall

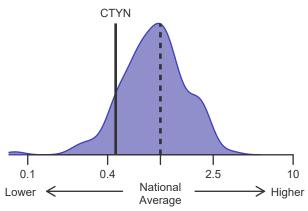


Figure B11. Offer acceptance: PHS increased infectious risk

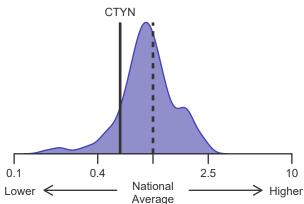
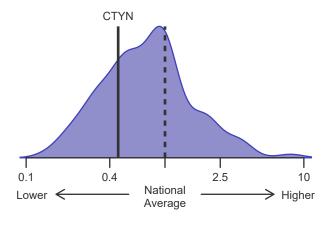


Figure B12. Offer acceptance: DCD Donor

Figure B13. Offer acceptance: HCV+ Donor



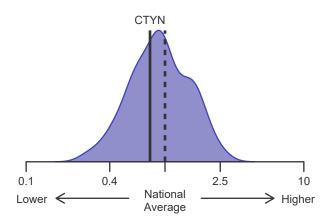
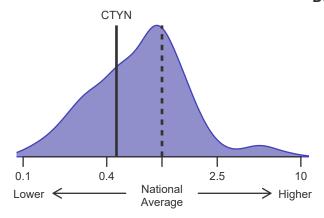
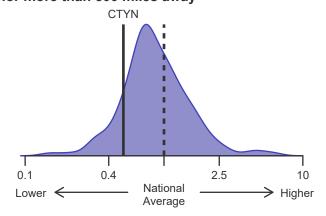


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance: Donor more than 500 miles away







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C. Transplant Information

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

	Percentage in each category			
Characteristic	Center (N=32)	Region (N=385)	U.S. (N=9,518)	
Ethnicity/Race (%)*				
White	84.4	84.2	68.5	
African-American	0.0	3.1	7.4	
Hispanic/Latino	9.4	8.1	18.1	
Asian	6.2	3.4	4.2	
Other	0.0	1.3	1.8	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	1.0	1.9	
2-11 years	0.0	2.1	1.6	
12-17	0.0	1.6	1.2	
18-34	12.5	6.8	7.0	
35-49 years	18.8	20.8	21.7	
50-64 years	53.1	49.6	45.7	
65-69 years	12.5	14.5	14.7	
70+ years	3.1	3.6	6.3	
Gender (%)				
Male	84.4	66.0	63.4	
Female	15.6	34.0	36.6	

^{*} 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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C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 07/01/2022 and 06/30/2023

	Percentage in each category			
Characteristic	Center (N=5)	Region (N=25)	U.S. (N=635)	
Ethnicity/Race (%)*				
White	40.0	76.0	74.3	
African-American	0.0	4.0	4.3	
Hispanic/Latino	40.0	16.0	15.7	
Asian	20.0	4.0	4.4	
Other	0.0	0.0	1.3	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	12.0	8.5	
2-11 years	0.0	4.0	4.1	
12-17	0.0	0.0	0.5	
18-34	0.0	8.0	11.3	
35-49 years	40.0	16.0	17.6	
50-64 years	40.0	40.0	37.8	
65-69 years	20.0	20.0	13.4	
70+ years	0.0	0.0	6.8	
Gender (%)				
Male	40.0	52.0	51.0	
Female	60.0	48.0	49.0	

^{*} 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 C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2022 and 06/30/2023

	Percentage in each category			
Characteristic	Center (N=32)	Region (N=385)	U.S. (N=9,518)	
Blood Type (%)				
0	46.9	41.0	46.0	
A	34.4	40.8	35.9	
В	12.5	14.0	13.0	
AB	6.2	4.2	5.1	
Previous Transplant (%)				
Yes	0.0	1.8	3.9	
No	100.0	98.2	96.1	
Body Mass Index (%)				
0-20	9.4	9.1	11.1	
21-25	12.5	29.6	26.0	
26-30	43.8	32.2	30.2	
31-35	25.0	18.2	18.7	
36-40	6.2	7.5	8.3	
41+	0.0	2.6	4.1	
Unknown	3.1	0.8	1.7	
Primary Disease (%)				
Acute Hepatic Necrosis	0.0	2.3	2.6	
Non-Cholestatic Cirrhosis	34.4	26.5	33.4	
Cholestatic Liver Disease/Cirrhosis	9.4	5.2	5.7	
Biliary Atresia	0.0	2.1	1.9	
Metabolic Diseases	3.1	3.4	2.4	
Malignant Neoplasms	0.0	8.1	11.7	
Other	53.1	52.5	42.2	
Missing	0.0	0.0	0.1	
Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0	
Status 1A	3.1	2.9	2.6	
Status 1B	0.0	1.6	1.2	
MELD 6-10	12.5	9.9	9.7	
MELD 11-14	3.1	8.6	7.5	
MELD 15-20	15.6	14.3	15.7	
MELD 21-30	25.0	34.3	30.8	
MELD 31-40	40.6	21.8	23.7	
PELD less than or equal to 10	0.0	0.8	1.1	
PELD 11-14	0.0	0.5	0.1	
PELD 15-14 PELD 15-20	0.0	0.0	0.1	
PELD 13-20 PELD 21-30	0.0	0.5	0.3	
PELD 31 or greater	0.0	0.0	0.2	
Temporarily Inactive	0.0	0.0	0.0	
Recipient Medical Condition at Transplant (%)	74.0	64.0	E0 0	
Not Hospitalized	71.9	61.3	59.0	
Hospitalized	28.1	28.8	24.9	
ICU	0.0	9.9	15.9	
Unknown	0.0	0.0	0.3	

^{*} 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



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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 07/01/2022 and 06/30/2023

	Percentage in each category			
Characteristic	Center (N=5)	Region (N=25)	U.S. (N=635)	
Blood Type (%)			,	
0	40.0	56.0	45.4	
A	40.0	20.0	41.7	
В	20.0	24.0	10.6	
AB	0.0	0.0	2.4	
Previous Transplant (%)				
Yes	0.0	0.0	1.7	
No	100.0	100.0	98.3	
Body Mass Index (%)				
0-20	20.0	20.0	21.3	
21-25	20.0	20.0	31.2	
26-30	40.0	32.0	26.1	
31-35	20.0	16.0	14.8	
36-40	0.0	12.0	4.7	
41+	0.0	0.0	1.7	
Unknown	0.0	0.0	0.2	
Primary Disease (%)				
Acute Hepatic Necrosis	0.0	0.0	1.3	
Non-Cholestatic Cirrhosis	0.0	28.0	33.4	
Cholestatic Liver Disease/Cirrhosis	40.0	12.0	22.4	
Biliary Atresia	0.0	12.0	10.9	
Metabolic Diseases	0.0	4.0	1.7	
Malignant Neoplasms	0.0	12.0	11.5	
Other	60.0	32.0	18.9	
Missing	0.0	0.0	0.0	
Medical Urgency Statust/MELD/PELD at Transplant (%)*				
Status 1A	0.0	0.0	1.1	
Status 1B	0.0	4.0	1.3	
MELD 6-10	20.0	20.0	26.6	
MELD 11-14	20.0	20.0	18.1	
MELD 15-20	0.0	20.0	27.6	
MELD 21-30	40.0	20.0	12.3	
MELD 31-40	0.0	0.0	0.6	
PELD less than or equal to 10	0.0	0.0	4.4	
PELD 11-14	0.0	0.0	1.3	
PELD 15-20	0.0	4.0	2.5	
PELD 21-30	0.0	0.0	1.1	
PELD 31 or greater	0.0	8.0	1.3	
Temporarily Inactive	20.0	4.0	1.9	
Recipient Medical Condition at Transplant (%)				
Not Hospitalized	100.0	84.0	88.0	
Hospitalized	0.0	12.0	9.1	
ICU	0.0	4.0	2.8	
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



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C. Transplant Information

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

	Percentage in each category			
Donor Characteristic	Center (N=32)	Region (N=385)	U.S. (N=9,518)	
Cause of Death (%)				
Deceased: Stroke	21.9	23.4	24.8	
Deceased: MVA	6.2	8.3	12.1	
Deceased: Other	71.9	68.3	63.1	
Ethnicity/Race (%)*				
White	56.2	60.0	52.4	
African-American	31.2	17.9	19.0	
Hispanic/Latino	6.2	4.7	9.5	
Asian	0.0	3.1	2.9	
Other	0.0	1.3	1.2	
Not Reported	6.2	13.0	15.0	
Age (%)				
<2 years	0.0	0.3	0.9	
2-11 years	0.0	1.0	2.0	
12-17	3.1	3.9	4.4	
18-34	21.9	24.4	30.3	
35-49 years	43.8	27.8	29.8	
50-64 years	28.1	34.3	24.5	
65-69 years	3.1	5.5	4.7	
70+ years	0.0	2.9	3.4	
Gender (%)				
Male	62.5	62.9	61.9	
Female	37.5	37.1	38.1	
Blood Type (%)				
0	53.1	44.7	49.6	
A	31.2	40.5	36.5	
В	9.4	12.5	11.1	
AB	6.2	2.3	2.7	
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 C3L. Living donor characteristics
Transplants performed between 07/01/2022 and 06/30/2023

	Percentage in each category				
Donor Characteristic	Center	Region	U.S.		
	(N=5)	(N=25)	(N=635)		
Ethnicity/Race (%)*					
White	40.0	72.0	74.0		
African-American	20.0	8.0	3.1		
Hispanic/Latino	0.0	4.0	4.3		
Asian	0.0	0.0	4.1		
Other	0.0	0.0	1.3		
Not Reported	40.0	16.0	13.2		
Age (%)					
0-11 years	0.0	0.0	0.2		
12-17	0.0	0.0	0.0		
18-34	60.0	36.0	42.5		
35-49 years	20.0	40.0	42.4		
50-64 years	20.0	24.0	14.6		
65-69 years	0.0	0.0	0.3		
70+ years	0.0	0.0	0.0		
Gender (%)					
Male	80.0	56.0	40.3		
Female	20.0	44.0	59.7		
Blood Type (%)					
0	60.0	72.0	64.6		
A	20.0	12.0	29.4		
В	20.0	16.0	5.2		
AB	0.0	0.0	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 07/01/2022 and 06/30/2023

	Percentage in each category			
Transplant Characteristic	Center	Region	U.S.	
	(N=32)	(N=385)	(N=9,518)	
Cold Ischemic Time (Hours): Local (%)				
Deceased: 0-5 hr	50.0	49.4	60.2	
Deceased: 6-10 hr	50.0	37.2	28.2	
Deceased: 11-15 hr	0.0	10.3	6.8	
Deceased: 16-20 hr	0.0	2.6	2.5	
Deceased: 21+ hr	0.0	0.6	0.6	
Not Reported	0.0	0.0	1.6	
Cold Ischemic Time (Hours): Shared (%)				
Deceased: 0-5 hr	76.7	41.0	40.0	
Deceased: 6-10 hr	23.3	44.5	47.1	
Deceased: 11-15 hr	0.0	7.9	7.2	
Deceased: 16-20 hr	0.0	4.4	3.1	
Deceased: 21+ hr	0.0	1.3	0.9	
Not Reported	0.0	0.9	1.7	
Procedure Type (%)				
Single organ	90.6	93.2	90.2	
Multi organ	9.4	6.8	9.8	
Donor Location (%)				
Local Donation Service Area (DSA)	6.2	40.5	35.3	
Another Donation Service Area (DSA)	93.8	59.5	64.7	
Median Time in Hospital After Transplant	9.5 Days	9.0 Days	10.0 Days	



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C. Transplant Information

Table C4L. Living donor transplant characteristics Transplants performed between 07/01/2022 and 06/30/2023

	Percentage in each category			
Transplant Characteristic	Center	Region	U.S.	
	(N=5)	(N=25)	(N=635)	
Relation with Donor (%)				
Related	20.0	56.0	51.7	
Unrelated	80.0	44.0	45.8	
Not Reported	0.0	0.0	2.5	
Procedure Type (%)				
Single organ	100.0	100.0	100.0	
Multi organ	0.0	0.0	0.0	
Median Time in Hospital After Transplant	14.0 Days	11.0 Days	11.0 Days	



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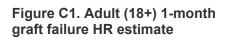
C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	64	19,856
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	93.75% [88.00%-99.87%]	96.94% [96.70%-97.18%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.52%	
Number of observed graft failures (including deaths) during the first month after transplant	4	608
Number of expected graft failures (including deaths) during the first month after transplant	1.53	
Estimated hazard ratio*	1.70	
95% credible interval for the hazard ratio**	[0.62, 3.31]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.62, 3.31], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 70% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 38% reduced risk up to 231% increased risk.



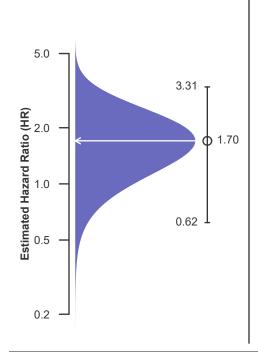
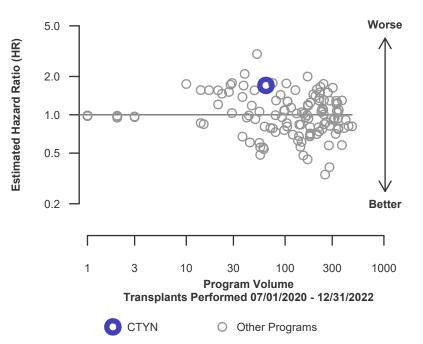


Figure C2. Adult (18+) 1-month graft failure HR program comparison





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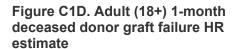
C. Transplant Information

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

	CTYN	U.S.
Number of transplants evaluated	56	18,615
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	92.86% [86.35%-99.85%]	96.93% [96.68%-97.18%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.57%	
Number of observed graft failures (including deaths) during the first month after transplant	4	572
Number of expected graft failures (including deaths) during the first month after transplant	1.30	
Estimated hazard ratio*	1.82	
95% credible interval for the hazard ratio**	[0.67, 3.54]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.67, 3.54], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 82% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 33% reduced risk up to 254% increased risk.



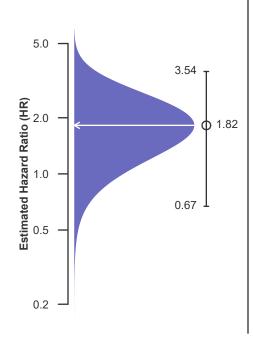
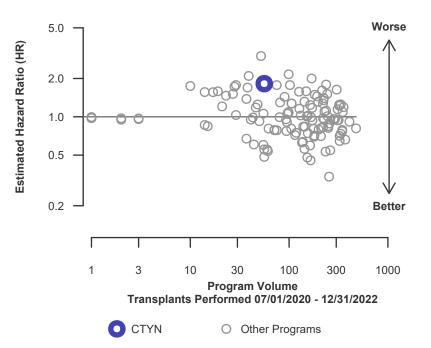


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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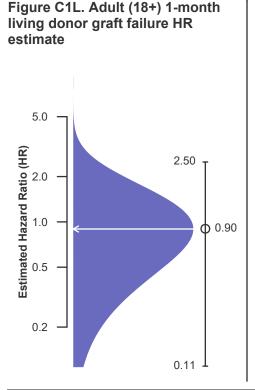
C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

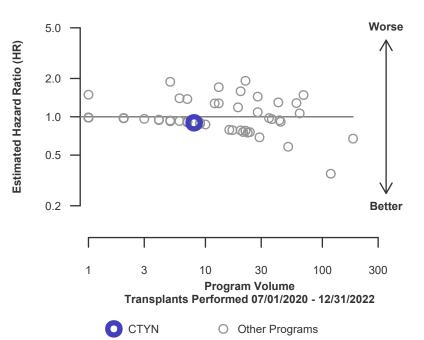
	CTYN	U.S.
Number of transplants evaluated	8	1,241
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.10% [96.17%-98.04%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.17%	
Number of observed graft failures (including deaths) during the first month after transplant	0	36
Number of expected graft failures (including deaths) during the first month after transplant	0.23	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.50]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.50], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 150% increased risk.









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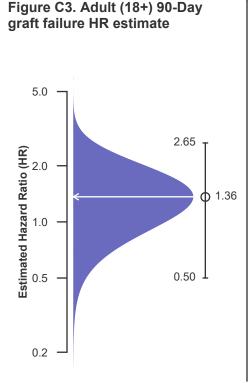
C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	64	19,856
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	93.75% [88.00%-99.87%]	95.21% [94.91%-95.50%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.03%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	4	952
Number of expected graft failures (including deaths) during the first 90 days after transplant	2.40	
Estimated hazard ratio*	1.36	
95% credible interval for the hazard ratio**	[0.50, 2.65]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.50, 2.65], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 36% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 50% reduced risk up to 165% increased risk.



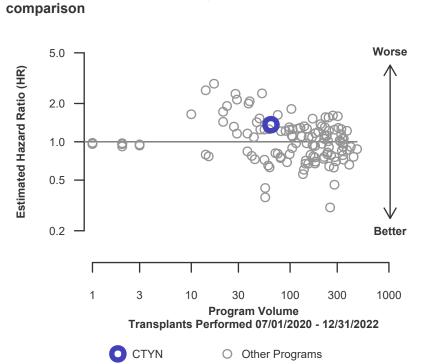


Figure C4. Adult (18+) 90-Day graft failure HR program



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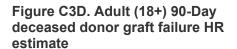
C. Transplant Information

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

	CTYN	U.S.
Number of transplants evaluated	56	18,615
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	92.86% [86.35%-99.85%]	95.18% [94.87%-95.49%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.08%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	4	897
Number of expected graft failures (including deaths) during the first 90 days after transplant	2.05	
Estimated hazard ratio*	1.48	
95% credible interval for the hazard ratio**	[0.54, 2.88]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.54, 2.88], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 48% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 46% reduced risk up to 188% increased risk.



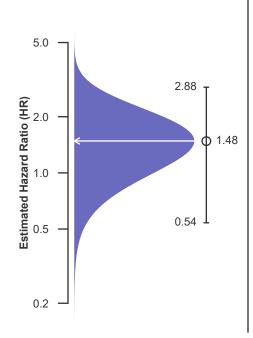
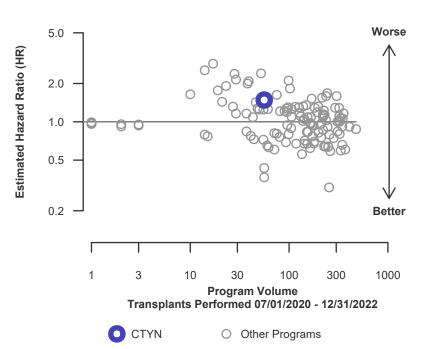


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





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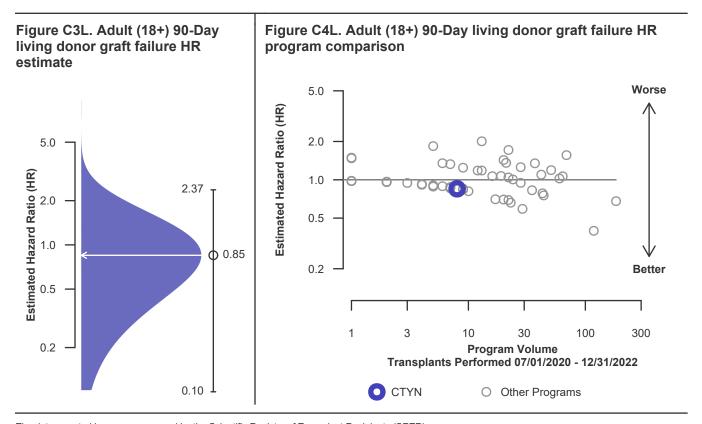
C. Transplant Information

Table C6L. Adult (18+) 90-Day survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	8	1,241
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%]	95.57% [94.43%-96.72%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.66%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	55
Number of expected graft failures (including deaths) during the first 90 days 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 Yale New Haven 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 CTYN's graft failure 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 CTYN's true hazard ratio with 95% probability. The best estimate is 15% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 90% reduced risk up to 137% increased risk.





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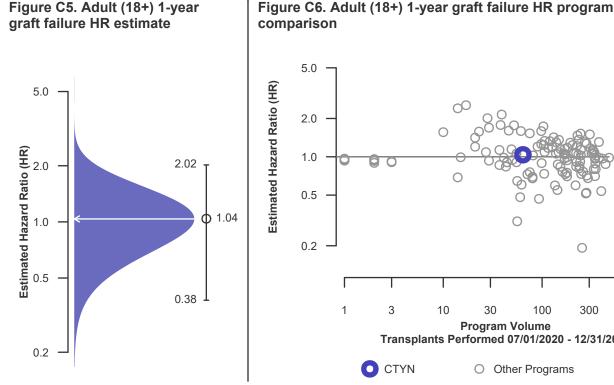
C. Transplant Information

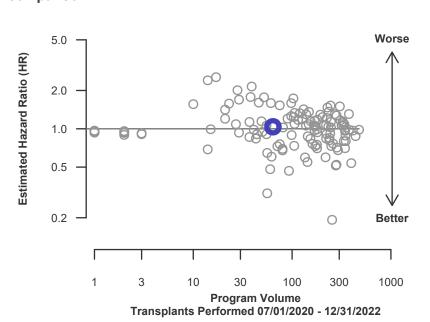
Table C7. Adult (18+) 1-year survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	64	19,856
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	93.75% [88.00%-99.87%]	92.02% [91.63%-92.41%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.24%	
Number of observed graft failures (including deaths) during the first year after transplant	4	1,509
Number of expected graft failures (including deaths) during the first year after transplant	3.79	
Estimated hazard ratio*	1.04	
95% credible interval for the hazard ratio**	[0.38, 2.02]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.38, 2.02], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 4% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 62% reduced risk up to 102% increased risk.





O Other Programs

CTYN



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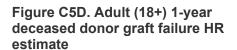
C. Transplant Information

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

	CTYN	U.S.
Number of transplants evaluated	56	18,615
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	92.86% [86.35%-99.85%]	91.95% [91.55%-92.36%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.25%	
Number of observed graft failures (including deaths) during the first year after transplant	4	1,426
Number of expected graft failures (including deaths) during the first year after transplant	3.26	
Estimated hazard ratio*	1.14	
95% credible interval for the hazard ratio**	[0.42, 2.22]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.42, 2.22], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 14% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 58% reduced risk up to 122% increased risk.



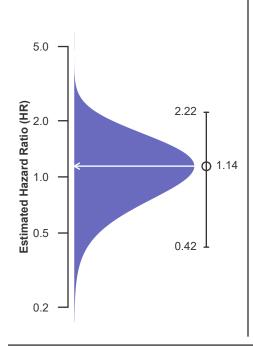
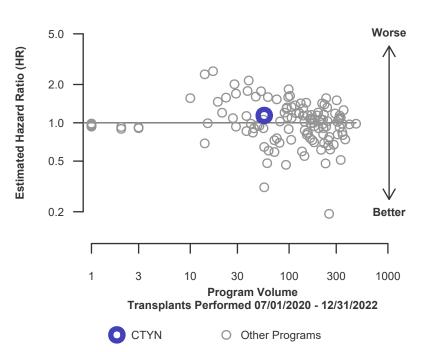


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





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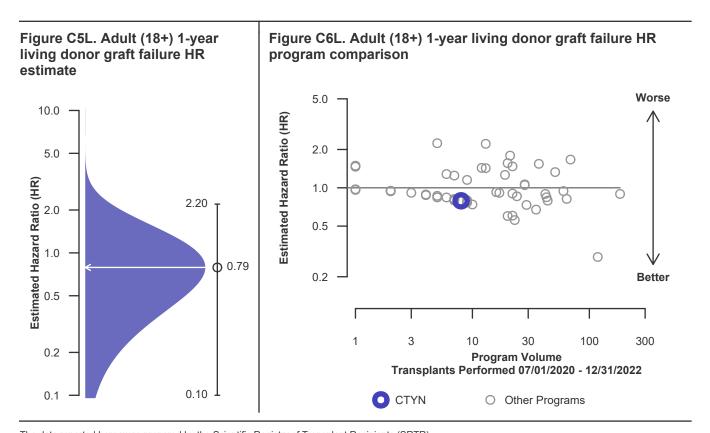
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Table C7L. Adult (18+) 1-year survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	8	1,241
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%]	93.04% [91.60%-94.50%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.17%	
Number of observed graft failures (including deaths) during the first year after transplant	0	83
Number of expected graft failures (including deaths) during the first year after transplant	0.53	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.10, 2.20]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.20], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 90% reduced risk up to 120% increased risk.





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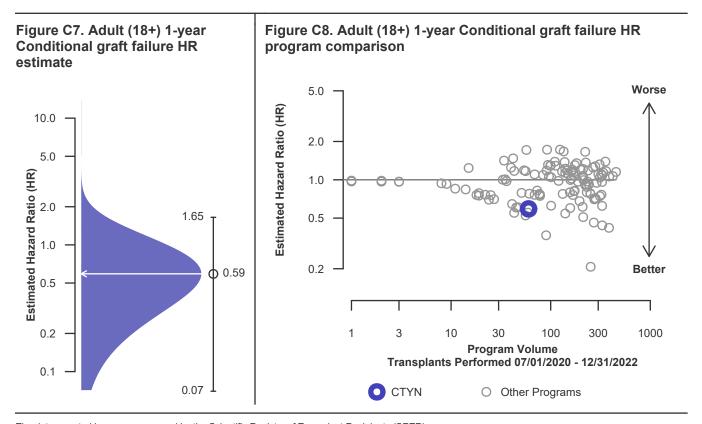
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Table C8. Adult (18+) 1-year Conditional survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	60	18,904
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%	96.65% [96.55%-96.76%]
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)	97.10%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	557
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	1.38	
Estimated hazard ratio*	0.59	
95% credible interval for the hazard ratio**	[0.07, 1.65]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.07, 1.65], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 41% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 93% reduced risk up to 65% increased risk.





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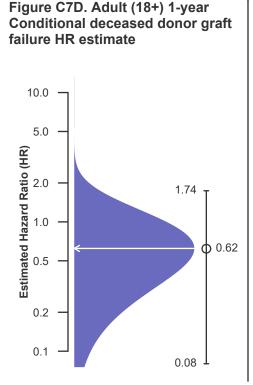
C. Transplant Information

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

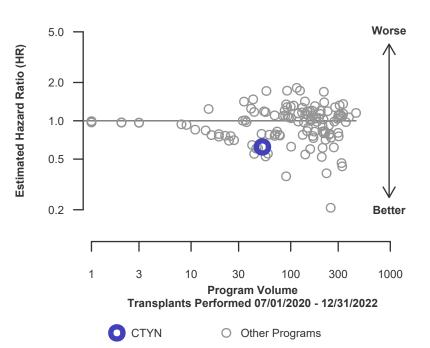
	CTYN	U.S.
Number of transplants evaluated	52	17,718
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00%	96.61% [96.50%-96.72%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.06%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	529
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	1.21	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.08, 1.74]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.08, 1.74], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 38% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 92% reduced risk up to 74% increased risk.









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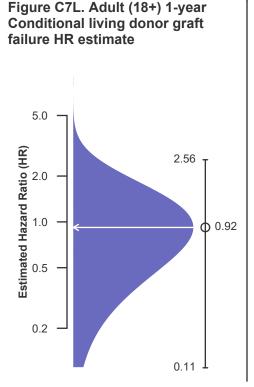
C. Transplant Information

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

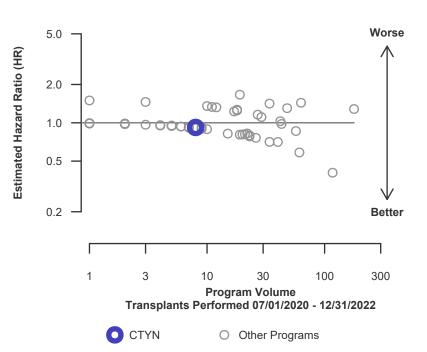
	CTYN	U.S.
Number of transplants evaluated	8	1,186
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	97.36% [97.00%-97.71%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.39%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	28
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.18	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.56]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.56], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 156% increased risk.









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C. Transplant Information

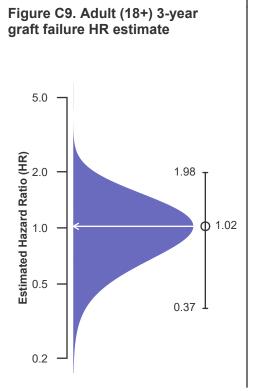
Table C9. Adult (18+) 3-year survival with a functioning graft

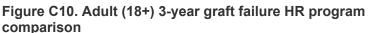
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

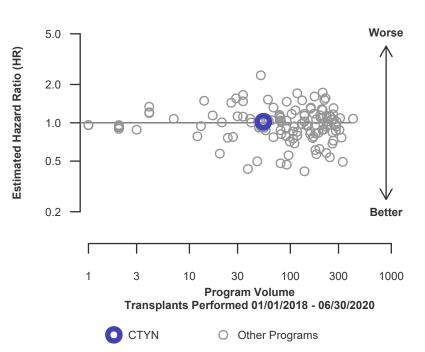
	CTYN	U.S.
Number of transplants evaluated	54	16,402
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	87.10% [74.03%-100.00%]	87.40% [86.14%-88.67%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.59%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	4	1,308
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.89	
Estimated hazard ratio*	1.02	
95% credible interval for the hazard ratio**	[0.37, 1.98]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.37, 1.98], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 2% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 63% reduced risk up to 98% increased risk.









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C. Transplant Information

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

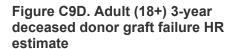
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	CTYN	U.S.
Number of transplants evaluated	46	15,508
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	85.63% [71.62%-100.00%]	87.29% [85.96%-88.64%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.36%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	4	1,244
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.34	
Estimated hazard ratio*	1.12	
95% credible interval for the hazard ratio**	[0.41, 2.19]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.41, 2.19], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 12% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 59% reduced risk up to 119% increased risk.



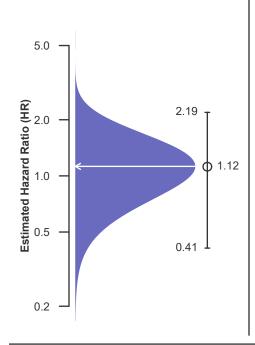
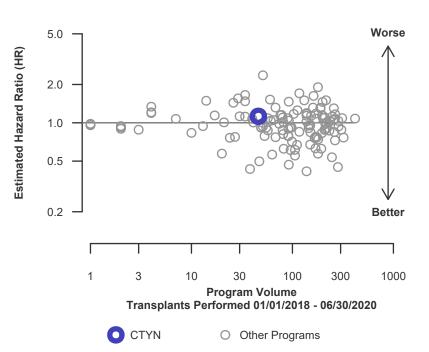


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





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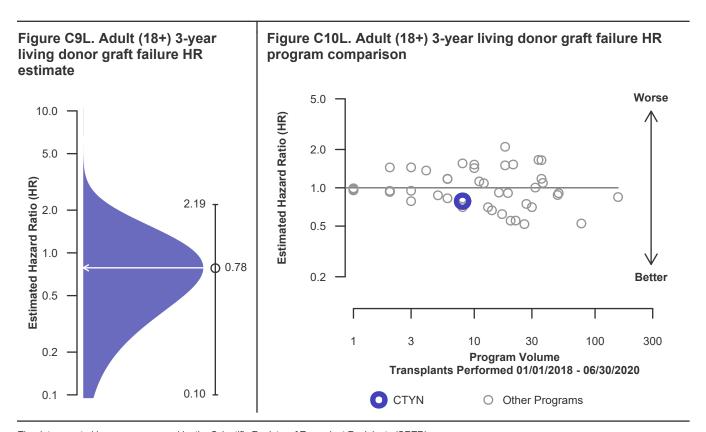
Table C9L. Adult (18+) 3-year survival with a functioning living donor graft

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

	CIYN	U.S.
Number of transplants evaluated	8	894
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%]	89.03% [85.96%-92.21%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.94%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	64
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.55	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.10, 2.19]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN'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 CTYN's true hazard ratio with 95% probability. The best estimate is 22% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 90% reduced risk up to 119% increased risk.





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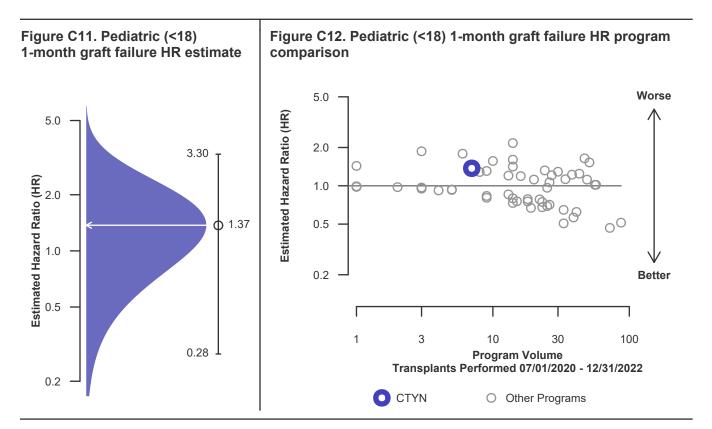
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Table C10. Pediatric (<18) 1-month survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	7	1,230
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [63.34%-100.00%]	95.69% [94.56%-96.83%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.24%	
Number of observed graft failures (including deaths) during the first month after transplant	1	53
Number of expected graft failures (including deaths) during the first month after transplant	0.19	
Estimated hazard ratio*	1.37	
95% credible interval for the hazard ratio**	[0.28, 3.30]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.28, 3.30], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 37% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 72% reduced risk up to 230% increased risk.





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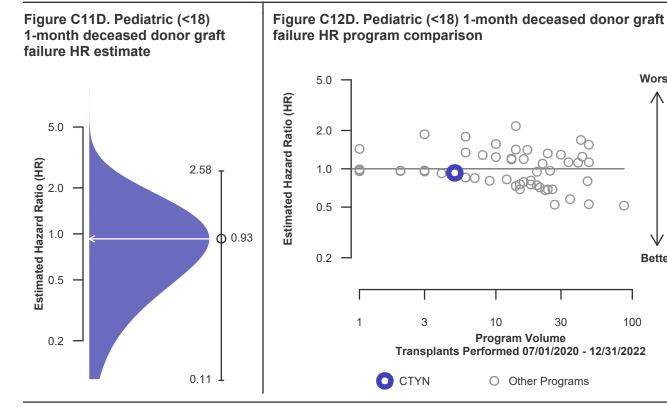
C. Transplant Information

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

	CTYN	U.S.
Number of transplants evaluated	5	1,032
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%]	95.25% [93.96%-96.56%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.94%	
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	0.16	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.11, 2.58]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.58], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 158% increased risk.



Worse

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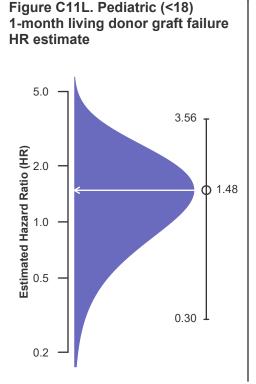
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Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

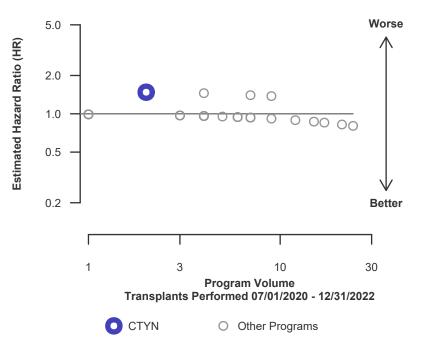
	CTYN	U.S.
Number of transplants evaluated	2	198
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	50.00% [12.50%-100.00%]	97.98% [96.04%-99.96%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.98%	
Number of observed graft failures (including deaths) during the first month after transplant	1	4
Number of expected graft failures (including deaths) during the first month after transplant	0.03	
Estimated hazard ratio*	1.48	
95% credible interval for the hazard ratio**	[0.30, 3.56]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.30, 3.56], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 48% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 70% reduced risk up to 256% increased risk.









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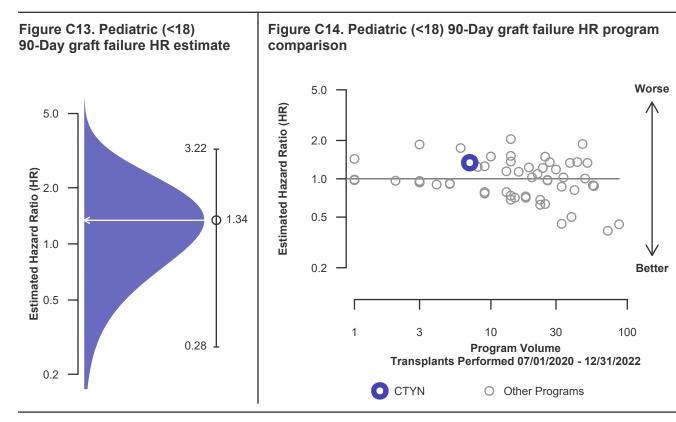
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Table C11. Pediatric (<18) 90-Day survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	7	1,230
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [63.34%-100.00%]	94.63% [93.38%-95.90%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.25%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	66
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.24	
Estimated hazard ratio*	1.34	
95% credible interval for the hazard ratio**	[0.28, 3.22]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.28, 3.22], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 34% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 72% reduced risk up to 222% increased risk.





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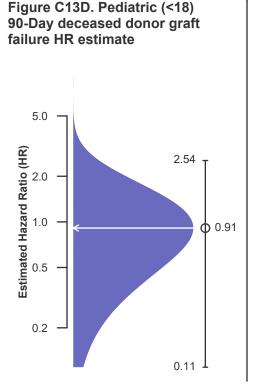
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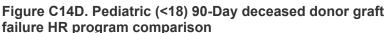
Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

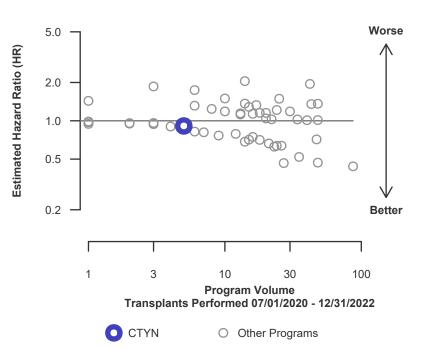
	CTYN	U.S.
Number of transplants evaluated	5	1,032
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.28% [92.88%-95.71%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.17%	
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	0.20	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.11, 2.54]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.54], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 9% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 154% increased risk.









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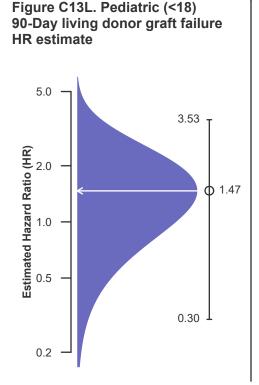
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Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

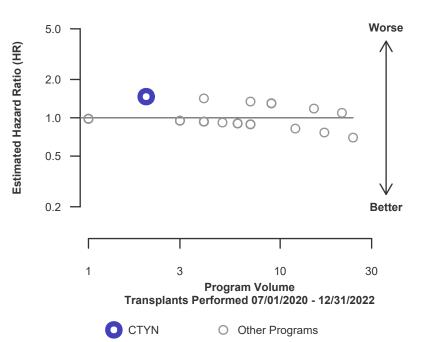
	CTYN	U.S.
Number of transplants evaluated	2	198
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	50.00% [12.50%-100.00%]	96.46% [93.93%-99.07%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.47%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	7
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.05	
Estimated hazard ratio*	1.47	
95% credible interval for the hazard ratio**	[0.30, 3.53]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.30, 3.53], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 47% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 70% reduced risk up to 253% increased risk.









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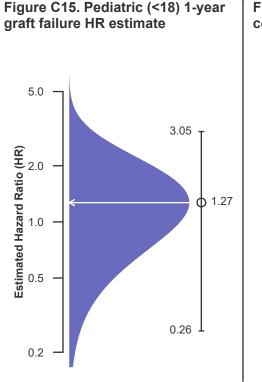
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Table C12. Pediatric (<18) 1-year survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

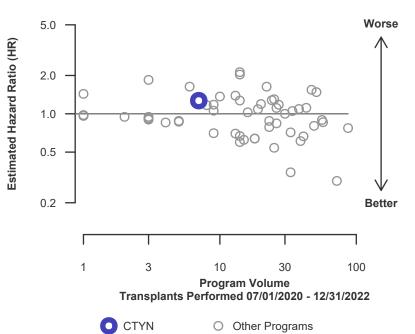
	CTYN	U.S.
Number of transplants evaluated	7	1,230
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [63.34%-100.00%]	92.53% [91.05%-94.05%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.16%	
Number of observed graft failures (including deaths) during the first year after transplant	1	89
Number of expected graft failures (including deaths) during the first year after transplant	0.37	
Estimated hazard ratio*	1.27	
95% credible interval for the hazard ratio**	[0.26, 3.05]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.26, 3.05], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 27% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 74% reduced risk up to 205% increased risk.









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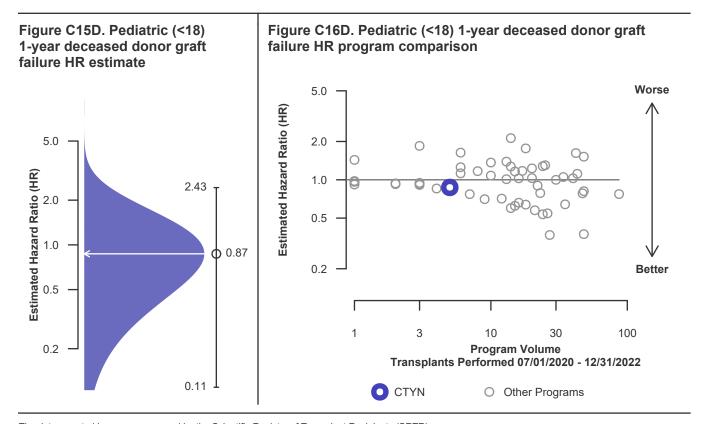
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Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	5	1,032
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%]	92.20% [90.55%-93.89%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.10%	
Number of observed graft failures (including deaths) during the first year after transplant	0	78
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, 2.43]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.43], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 143% increased risk.





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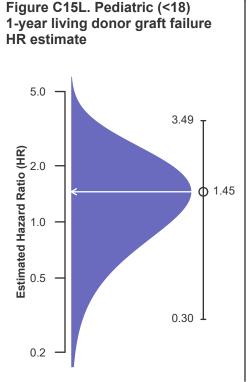
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Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

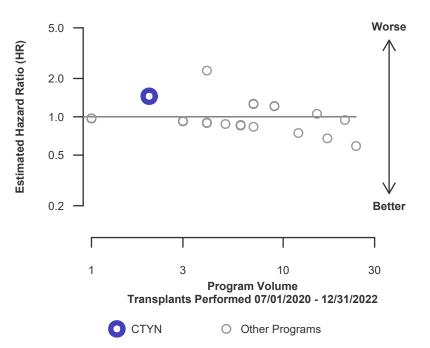
	CTYN	U.S.
Number of transplants evaluated	2	198
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	50.00% [12.50%-100.00%]	94.29% [91.06%-97.64%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.31%	
Number of observed graft failures (including deaths) during the first year after transplant	1	11
Number of expected graft failures (including deaths) during the first year after transplant	0.07	
Estimated hazard ratio*	1.45	
95% credible interval for the hazard ratio**	[0.30, 3.49]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.30, 3.49], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 45% higher risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 70% reduced risk up to 249% increased risk.









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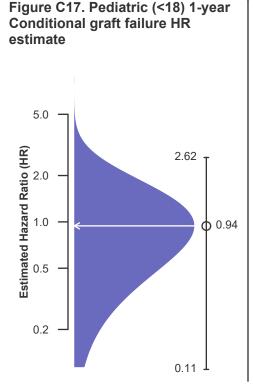
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Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

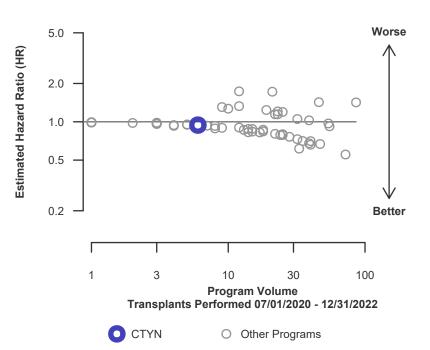
	CTYN	U.S.
Number of transplants evaluated	6	1,164
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10] (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	97.78% [97.50%-98.06%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.82%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	23
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.12	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.62]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.62], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 6% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 162% increased risk.









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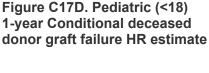
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Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	5	973
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%]	97.79% [97.49%-98.09%]
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	19
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 Yale New Haven 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 CTYN'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 CTYN's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 88% reduced risk up to 165% increased risk.



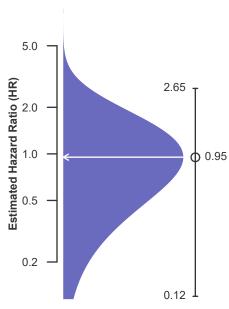
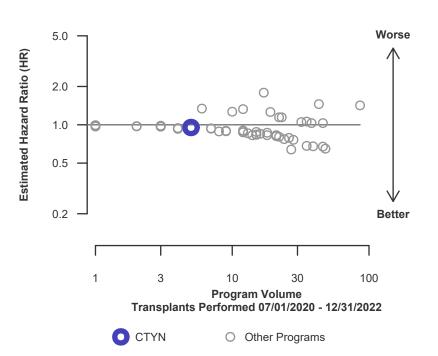


Figure C18D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR program comparison





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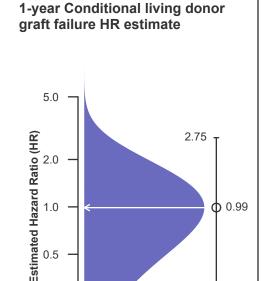
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Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	CTYN	U.S.
Number of transplants evaluated	1	191
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%	97.75% [96.94%-98.55%]
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)	97.75%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	4
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.75]	

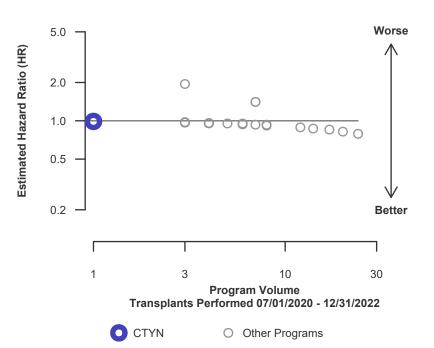
^{*} The hazard ratio provides an estimate of how Yale New Haven Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher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



0.2

Figure C17L. Pediatric (<18)

Figure C18L. Pediatric (<18) 1-year Conditional living donor graft failure HR program comparison



0.12

^{**} The 95% credible interval, [0.12, 2.75], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 88% reduced risk up to 175% increased risk.



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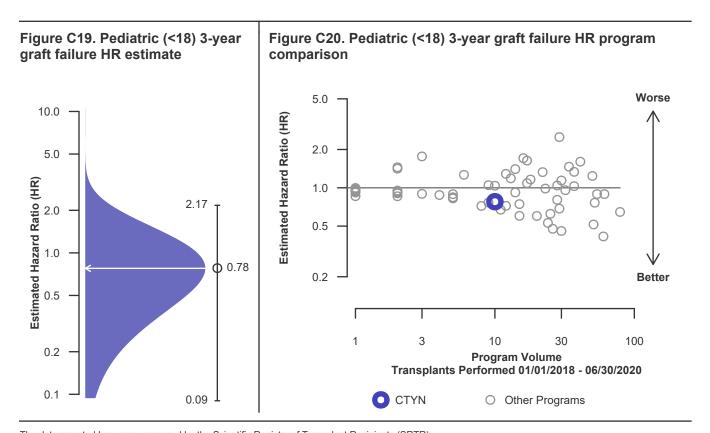
Table C14. Pediatric (<18) 3-year survival with a functioning graft

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

	CIYN	U.S.
Number of transplants evaluated	10	1,177
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%]	89.18% [86.63%-91.79%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.18%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	97
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.57	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.09, 2.17]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.09, 2.17], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 22% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 91% reduced risk up to 117% increased risk.





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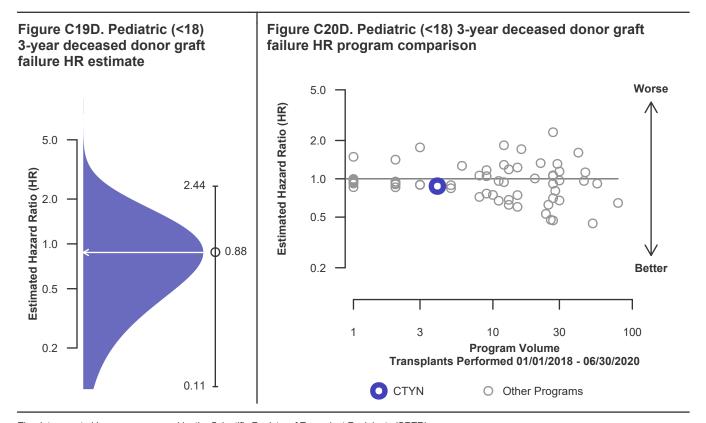
C. Transplant Information

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

	CTYN	U.S.
Number of transplants evaluated	4	1,009
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%]	89.04% [86.34%-91.82%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.13%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	86
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.28	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.44]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.44], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 12% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 144% increased risk.





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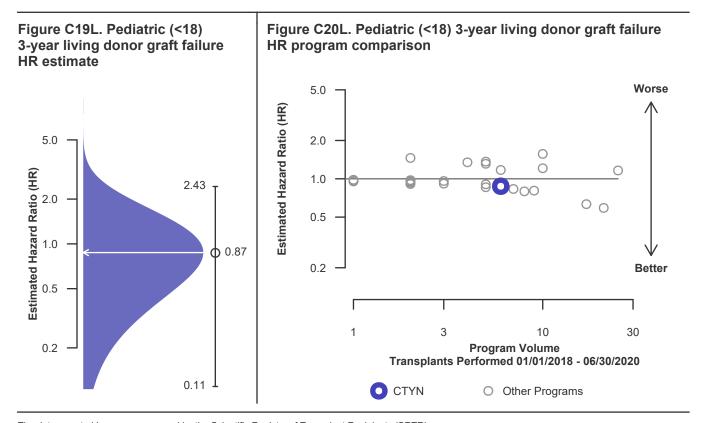
Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft

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

	CTYN	U.S.
Number of transplants evaluated	6	168
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%]	89.63% [82.66%-97.19%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.88%	
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	0.29	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.11, 2.43]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.43], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 143% increased risk.





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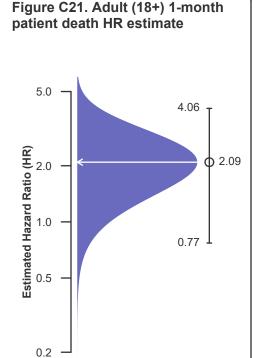
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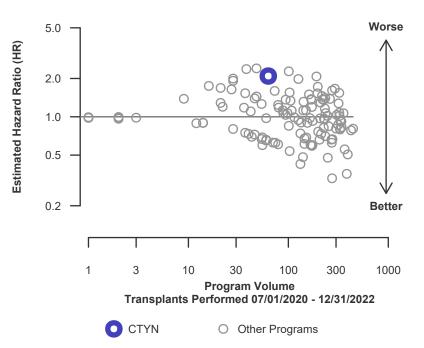
Table C15. Adult (18+) 1-month patient survival
Single organ transplants performed between 07/01/2020 and 12/31/2022
Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	63	19,160
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	93.65% [87.82%-99.87%]	98.17% [97.98%-98.36%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.55%	
Number of observed deaths during the first month after transplant	4	350
Number of expected deaths during the first month after transplant	0.87	
Estimated hazard ratio*	2.09	
95% credible interval for the hazard ratio**	[0.77, 4.06]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







^{**} The 95% credible interval, [0.77, 4.06], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 109% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 23% reduced risk up to 306% increased risk



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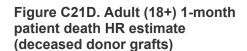
C. Transplant Information

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

	CTYN	U.S.
Number of transplants evaluated	55	17,932
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	92.73% [86.11%-99.85%]	98.12% [97.92%-98.31%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.43%	
Number of observed deaths during the first month after transplant	4	338
Number of expected deaths during the first month after transplant	0.82	
Estimated hazard ratio*	2.13	
95% credible interval for the hazard ratio**	[0.78, 4.14]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.78, 4.14], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 113% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 22% reduced risk up to 314% increased risk



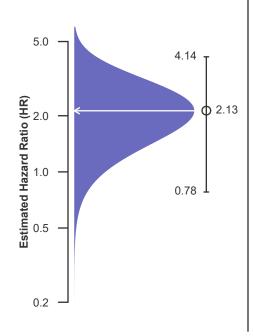
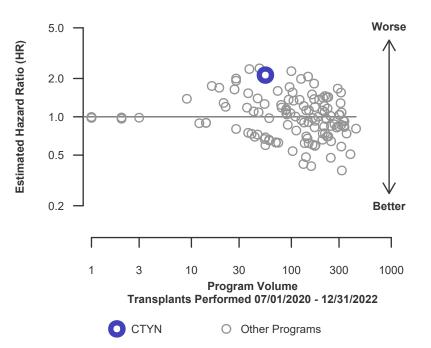


Figure C22D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





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Figure C21L. Adult (18+) 1-month

Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	8	1,228
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.02% [98.47%-99.57%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.39%	
Number of observed deaths during the first month after transplant	0	12
Number of expected deaths during the first month after transplant	0.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

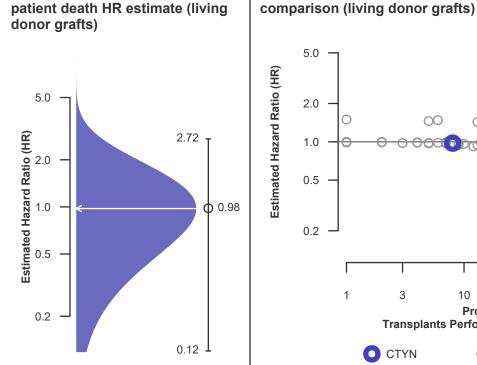
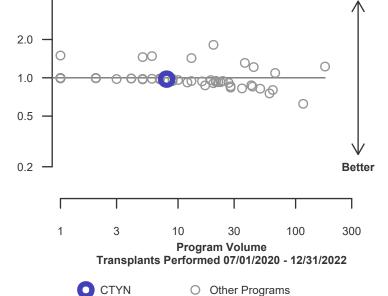




Figure C22L. Adult (18+) 1-month patient death HR program



^{**} The 95% credible interval, [0.12, 2.72], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 88% reduced risk up to 172% increased risk.



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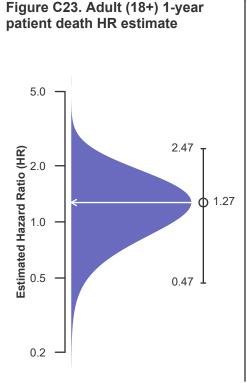
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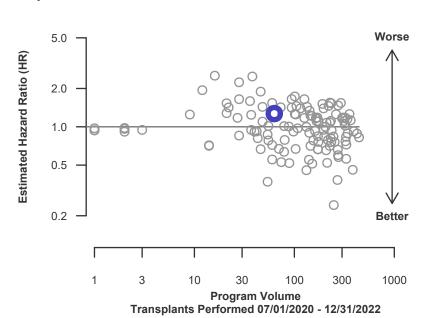
Table C16. Adult (18+) 1-year patient survival
Single organ transplants performed between 07/01/2020 and 12/31/2022
Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	63	19,160
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	93.65% [87.82%-99.87%]	93.95% [93.60%-94.30%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.89%	
Number of observed deaths during the first year after transplant	4	1,094
Number of expected deaths during the first year after transplant	2.73	
Estimated hazard ratio*	1.27	
95% credible interval for the hazard ratio**	[0.47, 2.47]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

comparison





O Other Programs

CTYN

Figure C24. Adult (18+) 1-year patient death HR program

^{**} The 95% credible interval, [0.47, 2.47], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 27% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 53% reduced risk up to 147% increased risk.



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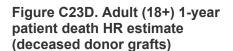
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Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	55	17,932
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	92.73% [86.11%-99.85%]	93.84% [93.48%-94.21%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.56%	
Number of observed deaths during the first year after transplant	4	1,042
Number of expected deaths during the first year after transplant	2.51	
Estimated hazard ratio*	1.33	
95% credible interval for the hazard ratio**	[0.49, 2.59]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



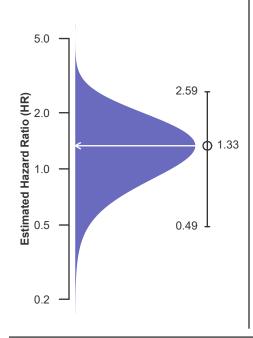
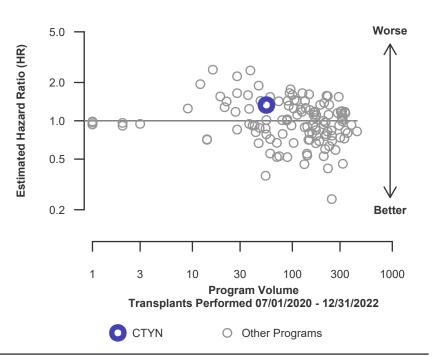


Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.49, 2.59], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 33% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 51% reduced risk up to 159% increased risk.



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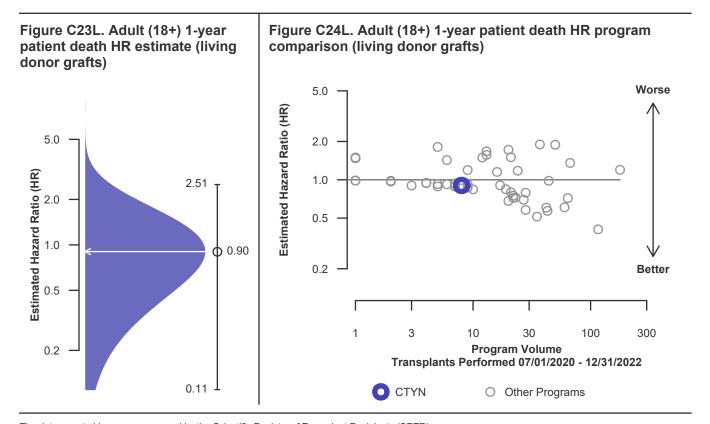
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Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	8	1,228
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.51% [94.32%-96.72%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.12%	
Number of observed deaths during the first year after transplant	0	52
Number of expected deaths during the first year after transplant	0.22	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.51]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.51], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 10% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 151% increased risk.





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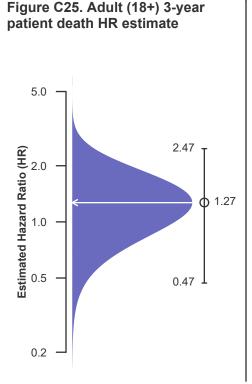
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Table C17. Adult (18+) 3-year patient survival

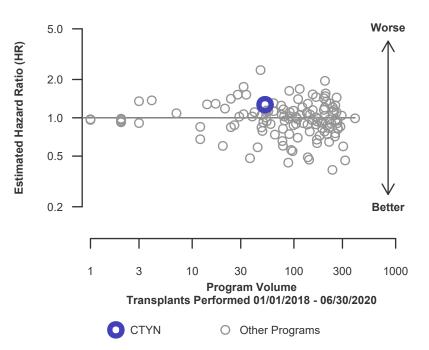
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	52	15,800
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	86.85% [73.71%-100.00%]	89.89% [88.68%-91.12%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.14%	
Number of observed deaths during the first 3 years after transplant	4	971
Number of expected deaths during the first 3 years after transplant	2.73	
Estimated hazard ratio*	1.27	
95% credible interval for the hazard ratio**	[0.47, 2.47]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







^{**} The 95% credible interval, [0.47, 2.47], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 27% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 53% reduced risk up to 147% increased risk.



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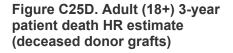
Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

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

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

	CTYN	U.S.
Number of transplants evaluated	44	14,917
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	85.29% [71.17%-100.00%]	89.74% [88.46%-91.04%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.69%	
Number of observed deaths during the first 3 years after transplant	4	934
Number of expected deaths during the first 3 years after transplant	2.45	
Estimated hazard ratio*	1.35	
95% credible interval for the hazard ratio**	[0.50, 2.62]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



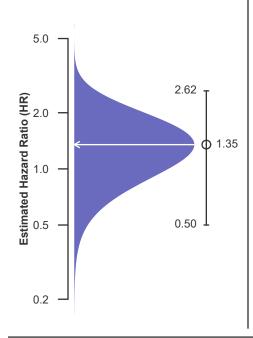
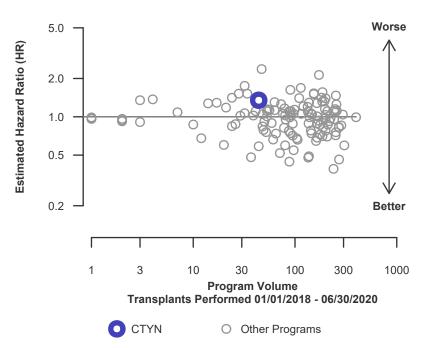


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.50, 2.62], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 35% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 50% reduced risk up to 162% increased risk.



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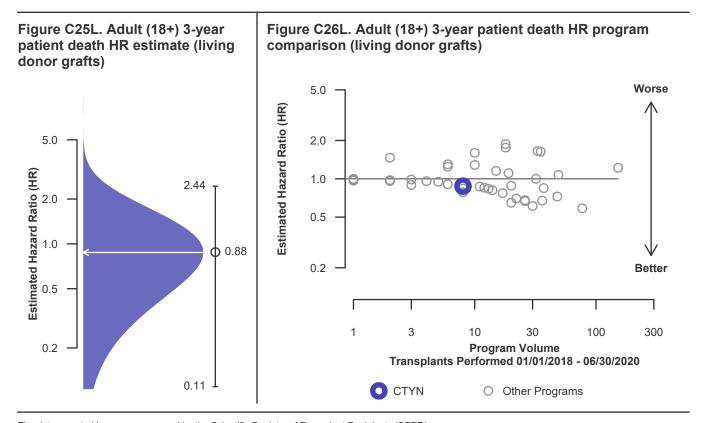
Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients)

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

	CTYN	U.S.
Number of transplants evaluated	8	883
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	92.30% [89.39%-95.30%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.64%	
Number of observed deaths during the first 3 years after transplant	0	37
Number of expected deaths during the first 3 years after transplant	0.28	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.44]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.44], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 12% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 144% increased risk.





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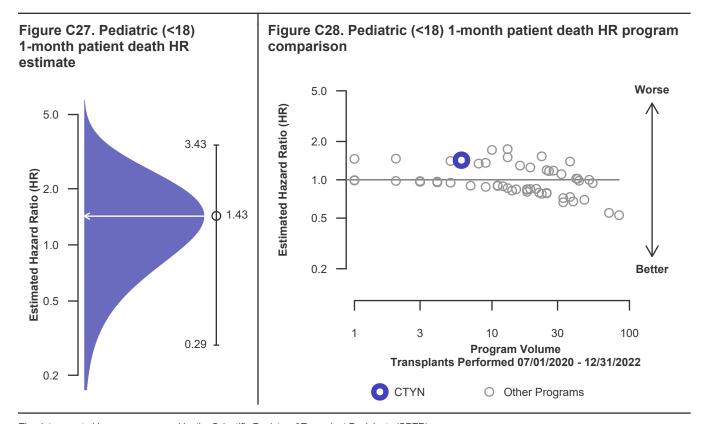
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Table C18. Pediatric (<18) 1-month patient survival
Single organ transplants performed between 07/01/2020 and 12/31/2022
Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	6	1,162
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [58.27%-100.00%]	97.68% [96.81%-98.55%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.10%	
Number of observed deaths during the first month after transplant	1	27
Number of expected deaths during the first month after transplant	0.10	
Estimated hazard ratio*	1.43	
95% credible interval for the hazard ratio**	[0.29, 3.43]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.29, 3.43], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 43% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 71% reduced risk up to 243% increased risk.





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

	CTYN	U.S.
Number of transplants evaluated	4	966
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.62% [96.66%-98.59%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.17%	
Number of observed deaths during the first month after transplant	0	23
Number of expected deaths during the first month after transplant	0.07	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.69]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

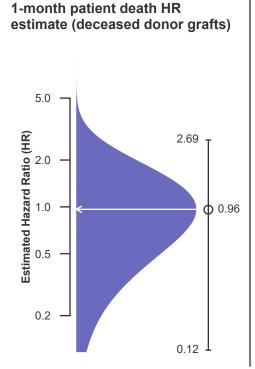
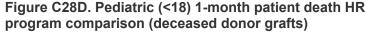
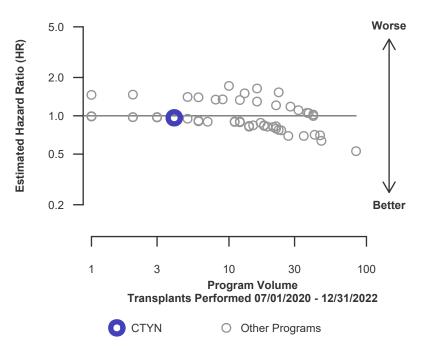


Figure C27D. Pediatric (<18)





^{**} The 95% credible interval, [0.12, 2.69], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 88% reduced risk up to 169% increased risk.



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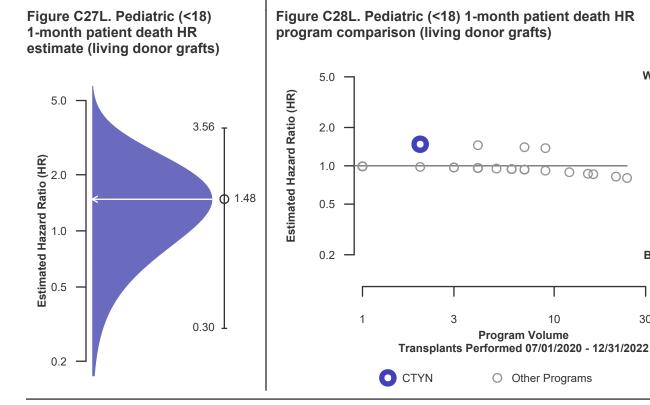
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Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	2	196
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	50.00% [12.50%-100.00%]	97.96% [96.00%-99.96%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.96%	
Number of observed deaths during the first month after transplant	1	4
Number of expected deaths during the first month after transplant	0.03	
Estimated hazard ratio*	1.48	
95% credible interval for the hazard ratio**	[0.30, 3.56]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



Worse

Better

30

0

10

^{**} The 95% credible interval, [0.30, 3.56], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 48% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 70% reduced risk up to 256% increased risk.



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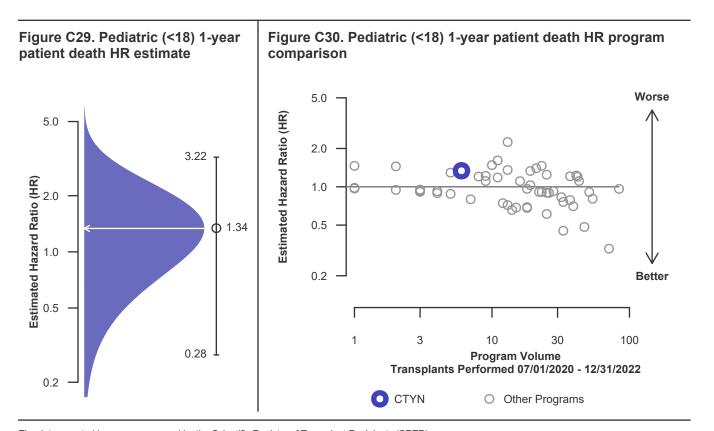
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Table C19. Pediatric (<18) 1-year patient survival
Single organ transplants performed between 07/01/2020 and 12/31/2022
Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	6	1,162
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [58.27%-100.00%]	94.73% [93.42%-96.05%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.05%	
Number of observed deaths during the first year after transplant	1	59
Number of expected deaths during the first year after transplant	0.25	
Estimated hazard ratio*	1.34	
95% credible interval for the hazard ratio**	[0.28, 3.22]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.28, 3.22], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 34% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 72% reduced risk up to 222% increased risk.





Center Code: CTYN Transplant Program (Organ): Liver Release Date: January 9, 2024

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C. Transplant Information

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

	CTYN	U.S.
Number of transplants evaluated	4	966
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.83% [93.41%-96.27%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.45%	
Number of observed deaths during the first year after transplant	0	48
Number of expected deaths during the first year after transplant	0.18	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.56]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

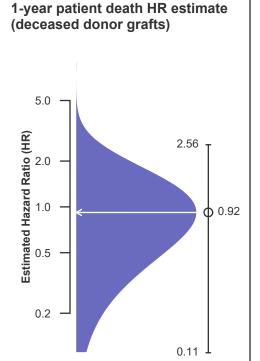
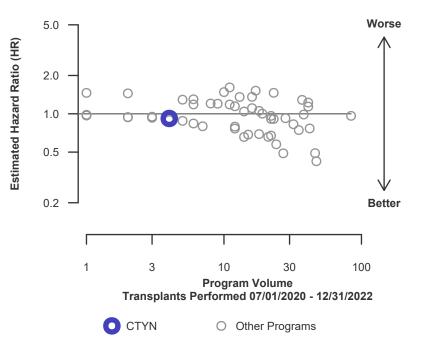


Figure C29D. Pediatric (<18)





^{**} The 95% credible interval, [0.11, 2.56], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 8% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 156% increased risk.



Center Code: CTYN Transplant Program (Organ): Liver Release Date: January 9, 2024

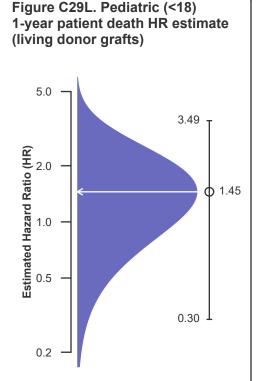
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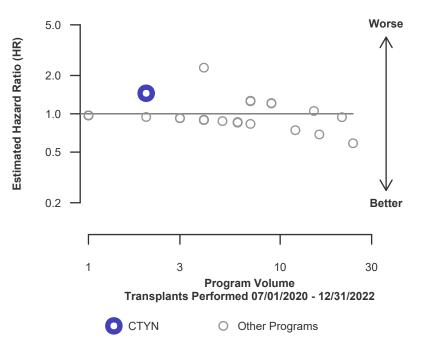
Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	CTYN	U.S.
Number of transplants evaluated	2	196
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	50.00% [12.50%-100.00%]	94.23% [90.96%-97.61%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.24%	
Number of observed deaths during the first year after transplant	1	11
Number of expected deaths during the first year after transplant	0.07	
Estimated hazard ratio*	1.45	
95% credible interval for the hazard ratio**	[0.30, 3.49]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







^{**} The 95% credible interval, [0.30, 3.49], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 45% higher risk of patient death compared to an average program, but CTYN's performance could plausibly range from 70% reduced risk up to 249% increased risk.



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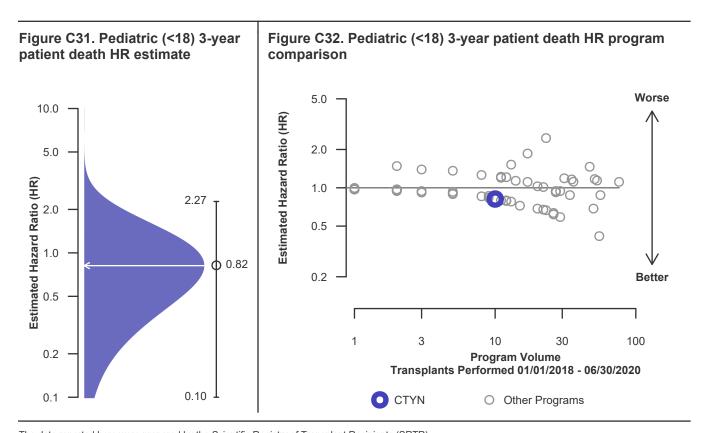
Table C20. Pediatric (<18) 3-year patient survival

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

	CTYN	U.S.
Number of transplants evaluated	10	1,098
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.15% [92.39%-95.95%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.18%	
Number of observed deaths during the first 3 years after transplant	0	49
Number of expected deaths during the first 3 years after transplant	0.45	
Estimated hazard ratio*	0.82	
95% credible interval for the hazard ratio**	[0.10, 2.27]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.27], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 18% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 90% reduced risk up to 127% increased risk.





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C. Transplant Information

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

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

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

	CTYN	U.S.
Number of transplants evaluated	4	931
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.30% [92.46%-96.17%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.30%	
Number of observed deaths during the first 3 years after transplant	0	42
Number of expected deaths during the first 3 years after transplant	0.18	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.55]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

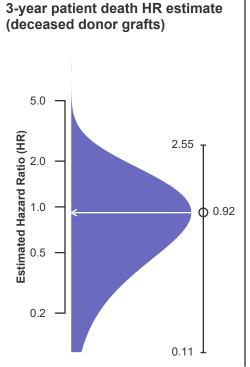
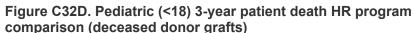
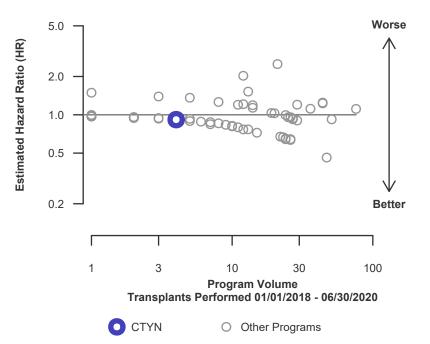


Figure C31D. Pediatric (<18)





^{**} The 95% credible interval, [0.11, 2.55], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 8% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 155% increased risk.



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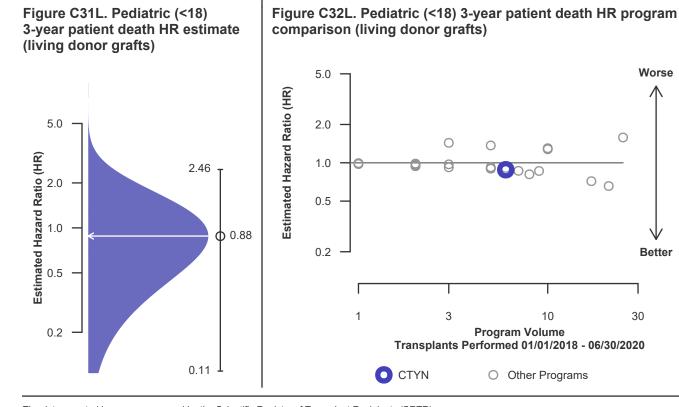
Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

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

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

	CTYN	U.S.
Number of transplants evaluated	6	167
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	92.37% [85.70%-99.56%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.43%	
Number of observed deaths during the first 3 years after transplant	0	7
Number of expected deaths during the first 3 years after transplant	0.27	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.46]	

^{*} The hazard ratio provides an estimate of how Yale New Haven 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 CTYN's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



Worse

Better

30

0

^{**} The 95% credible interval, [0.11, 2.46], indicates the location of CTYN's true hazard ratio with 95% probability. The best estimate is 12% lower risk of patient death compared to an average program, but CTYN's performance could plausibly range from 89% reduced risk up to 146% increased risk.



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C. Transplant Information

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

Adult (18+) Transplants First-Year Outcomes

Transplant Type	•	Transplants Performed		Liver Graft Failures		Estimated Liver Graft Survival	
	CTYN-TX1	USA	CTYN-TX1	USA	CTYN-TX1	USA	
Kidney-Liver	6	1,926	1	183	83.3%	90.5%	

Pediatric (<18) Transplants

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

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

Adult (18+) Transplants First-Year Outcomes

Transplant Type	•	Transplants Performed		Patient Deaths		Estimated Patient Survival	
Transplant Type	CTYN-TX1		CTYN-TX1		CTYN-TX1		
Kidney-Liver	6	1,926	1	173	83.3%	91.0%	

Pediatric (<18) Transplants

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



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D. Living Donor Information

Table D1. Living donor summary: 07/01/2020 - 06/30/2023

	This Center		United States			
Living Donor Follow-Up	07/2020- 06/2021	07/2021- 06/2022	07/2022- 12/2022	07/2020- 06/2021	07/2021- 06/2022	07/2022 12/2022
Number of Living Donors	5	3	2	538	587	301
6-Month Follow-Up Donors due for follow-up	5	3	1	401	587	252
Timely clinical data	5 100.0%	3 100.0%	1 100.0%	347 86.5%	498 84.8%	205 81.3%
Timely lab data	5 100.0%	3 100.0%	1 100.0%	350 87.3%	498 84.8%	212 84.1%
12-Month Follow-Up Donors due for follow-up	5	2		538	529	
Timely clinical data	5 100.0%	2 100.0%		457 84.9%	411 77.7%	
Timely lab data	5 100.0%	2 100.0%		450 83.6%	404 76.4%	
24-Month Follow-Up Donors due for follow-up	5			484		
Timely clinical data	5 100.0%			334 69.0%		
Timely lab data	5 100.0%			326 67.4%		

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