

Center Code: OHCC REGISTRY OF Transplant Program (Organ): Kidney TRANSPLANT Release Date: January 5, 2023 RECIPIENTS

Based on Data Available: October 31, 2022

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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 and July 2022. These reports made adjustments to transplant program and OPO performance metrics so that data beyond the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the January 2023 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 guarter 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 2023 reporting cycle. These changes will remain in force beyond the January 2023 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 7/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2021, follow-up through 6/30/2022.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2017-6/30/2019; follow-up through 3/12/2020.

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

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Days after listing (and before transplant) between 7/1/2020 and 6/30/2022.

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

Candidates on the waitlist 7/1/2020-6/30/2022.

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

Evaluation period: 7/1/2020-6/30/2022.

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

Offers received 1/1/2021-12/31/2021.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 6, 2023. 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 2023.

As with the July 2022 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 kidney transplant program at The Cleveland Clinic Foundation. 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 49.9 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 07/01/2016 and 12/31/2021. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.7 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2022 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 - B14 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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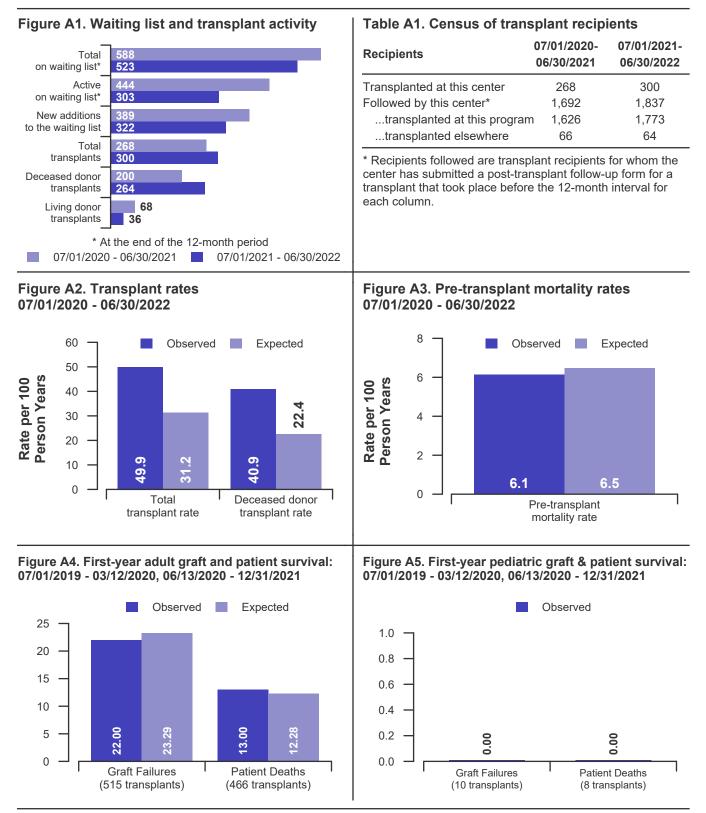
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A. Program Summary





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B. Waiting List Information

Table B1. Waiting list activity summary: 07/01/2020 - 06/30/2022

		ts for enter	Activity for as percent of		
Waiting List Registrations	07/01/2020- 06/30/2021	07/01/2021- 06/30/2022	This Center (%)	OPTN Region (%)	U.S. (%)
On waiting list at start Additions	573	588	100.0	100.0	100.0
New listings at this center	389	322	54.8	59.8	44.5
Removals					
Transferred to another center	2	3	0.5	1.6	0.9
Received living donor transplant*	68	35	6.0	7.7	6.0
Received deceased donor transplant*	200	264	44.9	31.3	19.3
Died	34	28	4.8	4.9	4.9
Transplanted at another center	36	25	4.3	4.0	4.0
Deteriorated	22	20	3.4	6.3	4.5
Recovered	3	1	0.2	0.4	0.3
Other reasons	9	11	1.9	6.9	5.1
On waiting list at end of period	588	523	88.9	96.8	99.5

* These patients were removed from waiting list with removal code indicating transplant; this may not equal the number of transplants performed at this center during the specified period.



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B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidatesCandidates registered on the waiting list between 07/01/2021 and 06/30/2022

Demographic Characteristic		iting List Regi 021 to 06/30/2		All Waiting List Registrations on 06/30/2022 (%)			
	This Center (N=322)	OPTN Region (N=3,136)	U.S. (N=42,769)	This Center (N=523)	OPTN Region (N=5,072)	U.S. (N=95,651)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	66.8	59.5	41.0	57.0	57.6	35.6	
African-American	28.6	30.9	29.5	37.1	33.3	31.5	
Hispanic/Latino	3.1	4.3	19.3	4.2	4.3	21.0	
Asian	1.2	4.5	8.6	1.5	3.7	10.1	
Other	0.3	0.8	1.6	0.2	1.2	1.8	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.3	0.2	0.1	0.2	0.1	0.1	
2-11 years	0.6	1.2	0.9	0.6	0.6	0.6	
12-17 years	0.6	1.3	1.5	0.4	0.6	1.1	
18-34 years	9.0	10.1	10.3	12.2	10.6	9.8	
35-49 years	20.5	21.9	24.3	23.5	25.0	26.4	
50-64 years	44.7	40.7	41.0	45.3	41.8	43.4	
65-69 years	14.3	14.3	13.3	11.5	13.7	12.4	
70+ years	9.9	10.1	8.6	6.3	7.7	6.2	
Gender (%)							
Male	64.0	62.3	61.9	58.1	60.7	62.0	
Female	36.0	37.7	38.1	41.9	39.3	38.0	

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



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B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2021 and 06/30/2022

Medical Characteristic		iting List Regi 021 to 06/30/2			All Waiting List Registrations on 06/30/2022 (%)			
	This Center (N=322)	OPTN Region (N=3,136)	U.S. (N=42,769)	This Center (N=523)	OPTN Region (N=5,072)	U.S. (N=95,651)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Blood Type (%)								
0	49.1	46.6	49.1	51.6	51.2	54.2		
A	32.0	34.5	32.0	27.0	29.1	26.9		
В	13.4	14.8	15.1	16.4	16.8	16.4		
AB	5.6	4.2	3.8	5.0	2.9	2.5		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Previous Transplant (%)								
Yes	14.0	13.9	12.2	20.7	17.2	13.5		
No	86.0	86.1	87.8	79.3	82.8	86.5		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Initial CPRA (%)								
0-9%	84.8	78.8	78.2	76.7	77.6	79.3		
10-79%	8.1	13.4	14.1	13.0	13.2	13.5		
80+%	7.1	7.8	7.6	10.3	9.2	7.1		
Unknown	0.0	0.0	0.1	0.0	0.0	0.1		
Primary Disease (%)*								
Glomerular Diseases	19.3	18.8	18.4	22.4	20.7	18.4		
Tubular and Interstitial Diseases	5.6	4.8	3.8	7.5	5.2	3.7		
Polycystic Kidneys	12.7	8.3	7.1	8.4	8.0	6.9		
Congenital, Familial, Metabolic	2.5	2.5	2.0	2.5	2.2	1.9		
Diabetes	33.2	32.6	34.7	35.2	32.7	36.9		
Renovascular & Vascular Diseases	s 0.0	0.0	0.1	0.0	0.0	0.1		
Neoplasms	0.6	0.4	0.4	0.0	0.2	0.4		
Hypertensive Nephrosclerosis	11.8	19.7	20.2	15.9	21.5	20.7		
Other	14.0	12.7	12.8	7.6	9.1	10.7		
Missing*	0.3	0.4	0.4	0.6	0.4	0.4		

* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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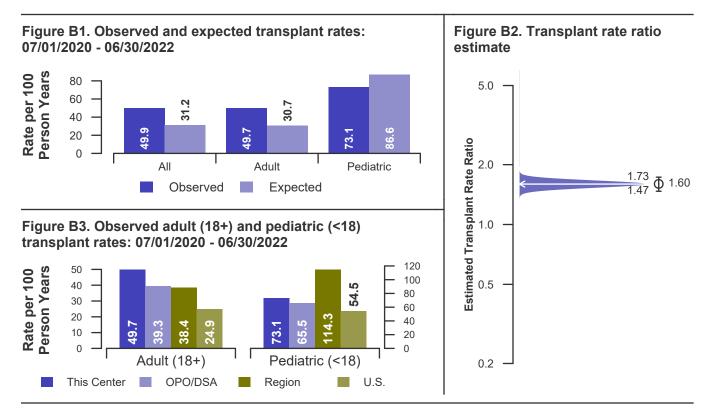
B. Waiting List Information

Table B4. Transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	573	1,136	5,386	98,911
Person Years**	1,135.2	2,103.7	10,408.1	192,671.6
Removals for Transplant	567	832	4,104	48,952
Adult (18+) Candidates				
Count on waiting list at start*	570	1,128	5,309	97,259
Person Years**	1,124.3	2,085.4	10,267.3	189,305.8
Removals for transpant	559	820	3,943	47,119
Pediatric (<18) Candidates				
Count on waiting list at start*	3	8	77	1,652
Person Years**	10.9	18.3	140.8	3,365.8
Removals for transplant	8	12	161	1,833

* 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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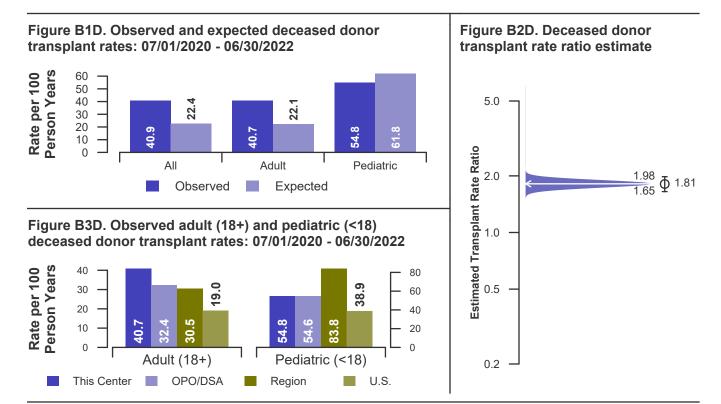
B. Waiting List Information

Table B4D. Deceased donor transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	573	1,136	5,386	98,911
Person Years**	1,135.2	2,103.7	10,408.1	192,671.6
Removals for Transplant	464	685	3,246	37,313
Adult (18+) Candidates				
Count on waiting list at start*	570	1,128	5,309	97,259
Person Years**	1,124.3	2,085.4	10,267.3	189,305.8
Removals for transpant	458	675	3,128	36,003
Pediatric (<18) Candidates				
Count on waiting list at start*	3	8	77	1,652
Person Years**	10.9	18.3	140.8	3,365.8
Removals for transplant	6	10	118	1,310

* 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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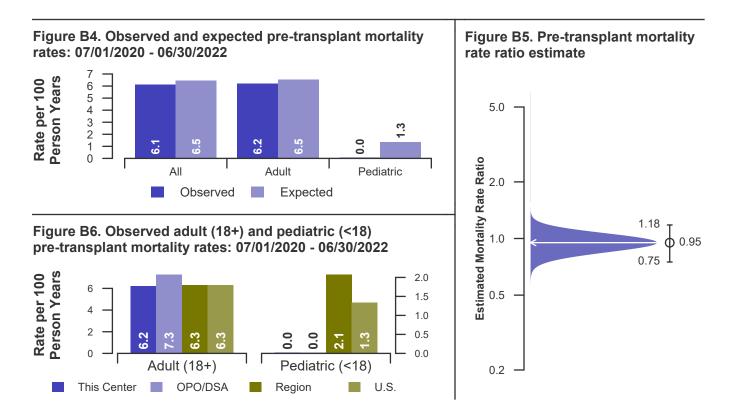
B. Waiting List Information

Table B5. Pre-transplant mortality rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	573	1,136	5,386	98,911
Person Years**	1,189.5	2,238.8	11,306.7	207,100.8
Number of deaths	73	161	706	12,865
Adult (18+) Candidates				
Count on waiting list at start*	570	1,128	5,309	97,259
Person Years**	1,178.5	2,220.4	11,161.6	203,641.1
Number of deaths	73	161	703	12,819
Pediatric (<18) Candidates				
Count on waiting list at start*	3	8	77	1,652
Person Years**	10.9	18.3	145.1	3,459.7
Number of deaths	0	0	3	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.





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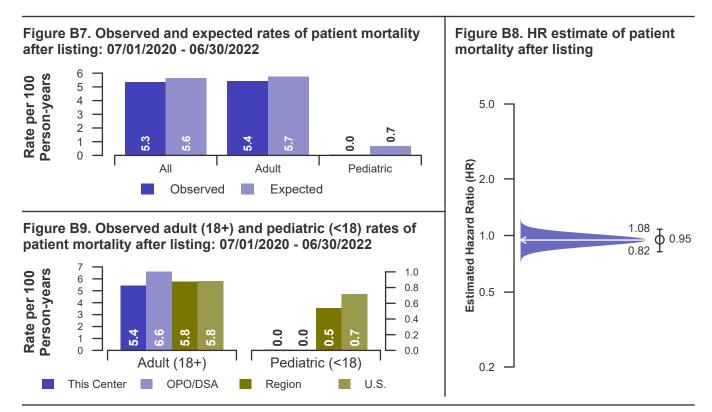
B. Waiting List Information

Table B6. Rates of patient mortality after listing: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	2,385	3,816	21,820	308,733
Person-years*	3,543.9	5,742.1	32,258.0	456,501.7
Number of Deaths	189	371	1,799	25,813
Adult (18+) Patients				
Count at risk during the evaluation period	2,343	3,742	21,125	299,715
Person-years*	3,481.2	5,633.3	31,148.4	442,501.8
Number of Deaths	189	371	1,793	25,713
Pediatric (<18) Patients				
Count at risk during the evaluation period	42	74	695	9,018
Person-years*	62.7	108.8	1,109.6	13,999.8
Number of Deaths	0	0	6	100

* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2020, or from the date of first wait listing until death, reaching 7 years after listing or June 30, 2022.

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





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B. Waiting List Information

Table B7. Waiting list candidate status after listingCandidates registered on waiting list between 01/01/2020 and 12/31/2020

Waiting list status (survival status)		Center (N ns Since L 12	,	U.S. (N=37,655) Months Since Listing 6 12 18			
Alive on waiting list (%)	68.0	49.3	35.7	75.0	61.1	51.0	
Died on the waiting list without transplant (%)	1.1	3.1	4.2	1.6	2.9	4.0	
Removed without transplant (%):							
Condition worsened (status unknown)	1.4	1.9	2.2	0.6	1.5	2.5	
Condition improved (status unknown)	0.0	0.3	0.6	0.1	0.2	0.3	
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.1	
Other	0.8	1.4	1.9	0.7	1.4	2.5	
Transplant (living donor from waiting list only) (%)):						
Functioning (alive)	6.1	10.6	7.0	5.1	8.3	6.7	
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	0.8	0.0	0.1	0.2	
Status Yet Unknown**	0.0	0.0	3.9	0.1	0.4	3.8	
Transplant (deceased donor) (%):							
Functioning (alive)	19.2	25.6	26.5	14.3	18.5	14.4	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0	
Failed-alive not retransplanted	0.3	0.3	0.0	0.1	0.1	0.1	
Died	0.6	1.4	2.2	0.4	0.8	1.3	
Status Yet Unknown*	2.2	5.8	14.8	1.8	4.1	12.4	
Lost or Transferred (status unknown) (%)	0.3	0.3	0.3	0.2	0.5	0.7	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	1.7	4.5	7.2	2.0	3.8	5.5	
Total % known died or removed as unstable	3.1	6.4	9.5	2.6	5.3	8.0	
Total % removed for transplant	28.4	43.7	55.2	21.8	32.3	38.9	
Total % with known functioning transplant (alive)	25.3	36.2	33.4	19.4	26.8	21.1	

* 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 07/01/2016 and 06/30/2019

Characteristic	Percent transplanted at time periods since listing This Center United States									
onaracteristic	Ν			2 years	3 years	N				3 years
All	594	5.2	24.2	36.4	47.1	99,014	4.5	19.1	26.6	32.4
Ethnicity/Race*										
White	397	4.8	24.7	37.0	49.4	38,757	4.5	19.8	27.4	33.3
African-American	157	7.0	24.2	35.0	43.3	30,664	4.9	19.7	27.3	33.2
Hispanic/Latino	20	5.0	30.0	40.0	45.0	19,262	4.7	18.8	25.7	31.6
Asian	18	0.0	11.1	33.3	38.9	8,454	2.6	13.4	20.7	26.6
Other	2	0.0	0.0	0.0	0.0	1,877	5.7	23.4	31.8	36.9
Unknown	0					0				
Age										
<2 years	0					116	6.0	42.2	62.1	75.0
2-11 years	2	0.0	50.0	50.0	50.0	830	8.1	49.4	64.5	72.9
12-17 years	5	20.0	100.0	100.0	100.0	1,436	7.3	48.0	60.3	65.9
18-34 years	50	2.0	16.0	28.0	44.0	9,760	4.6	20.9	30.0	37.9
35-49 years	136	6.6	19.9	29.4	39.7	24,503	4.3	18.5	26.2	32.5
50-64 years	254	4.7	21.7	35.8	44.9	42,136	4.5	17.6	24.5	30.1
65-69 years	106	6.6	35.8	47.2	63.2	13,349	4.4	17.8	24.7	29.8
70+ years	41	2.4	24.4	36.6	41.5	6,884	4.4	20.0	26.8	31.4
Gender										
Male	356	4.8	24.4	36.8	47.8	61,328	4.7	18.4	25.5	31.1
Female	238	5.9	23.9	35.7	46.2	37,686	4.3	20.2	28.3	34.5

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



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B. Waiting List Information

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

 Candidates registered on the waiting list between 07/01/2016 and 06/30/2019

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν	30 day	1 year	2 years	3 years	5 N	30 day	1 year	2 years	3 years
All	594	5.2	24.2	36.4	47.1	99,014	4.5	19.1	26.6	32.4
Blood Type										
0	280	4.6	23.2	33.2	41.8	49,345	4.2	16.5	22.8	28.1
A	194	6.7	26.8	43.3	56.7	30,856	5.4	22.6	31.7	38.5
В	84	1.2	11.9	20.2	31.0	15,097	3.0	16.3	23.3	28.8
AB	36	11.1	47.2	61.1	75.0	3,716	7.9	36.1	47.1	53.6
Previous Transplant										
Yes	116	3.4	17.2	25.9	32.8	13,227	3.0	18.8	27.0	32.9
No	478	5.6	25.9	38.9	50.6	85,787	4.8	19.1	26.5	32.4
Peak PRA/CPRA										
0-9%	481	6.2	25.2	37.2	48.9	77,957	4.8	18.5	25.6	31.5
10-79%	64	1.6	17.2	26.6	35.9	12,581	3.8	18.2	26.1	32.0
80+%	49	0.0	24.5	40.8	44.9	8,423	3.1	26.2	36.2	42.0
Unknown	0					2	100.0	100.0	100.0	100.0
Primary Disease*										
Glomerular Diseases	105	2.9	21.9	32.4	41.0	18,257	3.7	20.2	29.1	36.1
Tubular & Interstitial Diseases	40	2.5	17.5	35.0	45.0	3,841	5.4	21.5	28.5	34.6
Polycystic Kidneys	66	4.5	22.7	39.4	48.5	6,544	3.3	18.3	27.5	35.0
Congenital, Familial, Metabolic	10	0.0	20.0	20.0	50.0	1,928	5.9	30.7	41.0	49.2
Diabetes	191	4.7	20.4	32.5	47.1	36,174	3.2	14.6	20.6	25.4
Renovascular & Vascular Diseases	1	0.0	0.0	0.0	0.0	161	3.7	19.9	28.6	35.4
Neoplasms	4	0.0	0.0	0.0	25.0	342	8.8	26.9	35.4	39.2
Hypertensive Nephrosclerosis	109	6.4	28.4	44.0	51.4	20,175	4.9	19.8	27.7	34.1
Other	63	12.7	42.9	47.6	52.4	11,256	9.2	28.1	35.8	40.9
Missing*	5	0.0	0.0	0.0	40.0	336	1.8	8.6	14.9	20.8

* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*Candidates registered on the waiting list between 07/01/2016 and 12/31/2021

	Months to Transplant**							
Percentile	Center	OPO/DSA	Region	U.S.				
5th	0.7	0.8	0.7	0.7				
10th	1.5	1.9	1.5	2				
25th	5.5	6.9	5.6	8.2				
50th (median time to transplant)	15.6	21.4	20.6	34.4				
75th	44.2	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 06/30/2022. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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B. Waiting List Information

Table B11. Offer Acceptance Practices: 07/01/2021 - 06/30/2022

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	19,232	28,268	153,998	2,870,054
Number of Acceptances	236	305	1,536	17,367
Expected Acceptances	130.9	200.9	976.6	17,348.8
Offer Acceptance Ratio*	1.79	1.51	1.57	1.00
95% Credible Interval**	[1.57, 2.03]			
Low-KDRI Donors (KDRI < 1.05)				
Number of Offers	2,566	3,670	19,549	344,510
Number of Acceptances	87	105	441	5,712
Expected Acceptances	39.4	56.2	298.5	5,696.5
Offer Acceptance Ratio*	2.15	1.84	1.47	1.00
95% Credible Interval**	[1.73, 2.62]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)				
Number of Offers	13,751	20,111	106,884	2,002,947
Number of Acceptances	134	178	925	9,758
Expected Acceptances	81.2	124.8	577.8	9,757.8
Offer Acceptance Ratio*	1.63	1.42	1.60	1.00
95% Credible Interval**	[1.37, 1.92]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	2,915	4,487	27,565	522,597
Number of Acceptances	15	22	170	1,897
Expected Acceptances	10.2	19.8	100.3	1,894.5
Offer Acceptance Ratio*	1.39	1.10	1.68	1.00
95% Credible Interval**	[0.81, 2.12]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	16,521	24,018	133,214	2,487,183
Number of Acceptances	114	122	419	3,182
Expected Acceptances	20.0	30.3	185.2	3,212.4
Offer Acceptance Ratio*	5.27	3.84	2.25	0.99
95% Credible Interval**	[4.35, 6.27]			

* The offer acceptance ratio estimates the relative offer acceptance practice of The Cleveland Clinic Foundation compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer), while a ratio below one indicates the program is less likely to accept an offer acceptance practices (e.g., an offer acceptance at 25% less likely to accept an offer).

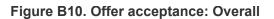
** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.57, 2.03], indicates the location of OHCC's true offer acceptance ratio with 95% probability. The best estimate is 79% more likely to accept an offer compared to national acceptance behavior, but OHCC's performance could plausibly range from 57% higher acceptance up to 103% higher acceptance.



R E G I S T R Y OFCenter Code: OHCCT R A N S P L A N TTransplant Program (Organ): Kidney
Release Date: January 5, 2023R E C I P I E N T SBased on Data Available: October 31, 2022

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B. Waiting List Information



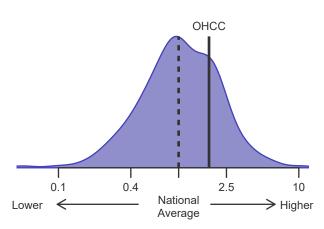


Figure B12. Offer acceptance: Medium-KDRI

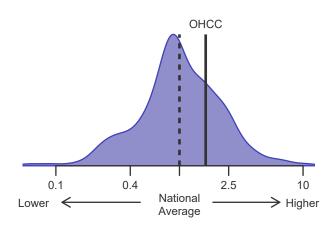
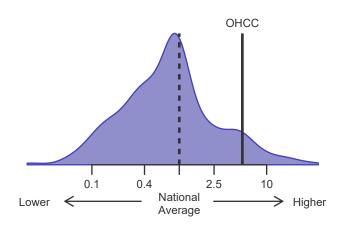


Figure B14. Offer acceptance: Offer number > 100



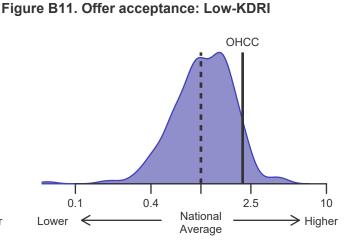
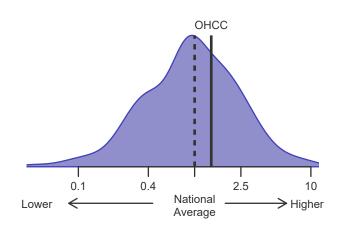


Figure B13. Offer acceptance: High-KDRI





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C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Characteristic	Center (N=264)	Region (N=1,647)	U.S. (N=18,602)	
Ethnicity/Race (%)*				
White	65.5	55.4	35.2	
African-American	29.9	34.5	33.6	
Hispanic/Latino	3.0	4.2	20.9	
Asian	1.5	4.7	8.5	
Other	0.0	1.2	1.7	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.1	0.0	
2-11 years	0.4	1.9	1.1	
12-17	0.4	1.5	1.6	
18-34	6.8	7.4	10.3	
35-49 years	18.2	21.9	24.0	
50-64 years	42.8	41.0	40.1	
65-69 years	18.2	15.8	13.0	
70+ years	13.3	10.4	9.8	
Gender (%)				
Male	62.9	63.0	60.7	
Female	37.1	37.0	39.3	

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



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C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Percei	Percentage in each category		
Characteristic	Center (N=36)	Region (N=407)	U.S. (N=5,871)	
Ethnicity/Race (%)*				
White	88.9	82.3	61.4	
African-American	2.8	11.3	13.5	
Hispanic/Latino	8.3	3.9	16.9	
Asian	0.0	2.2	6.8	
Other	0.0	0.2	1.4	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	1.0	0.3	
2-11 years	0.0	2.5	1.8	
12-17	2.8	1.2	1.6	
18-34	11.1	11.3	15.7	
35-49 years	30.6	26.3	26.3	
50-64 years	25.0	35.9	34.3	
65-69 years	13.9	10.1	10.7	
70+ years	16.7	11.8	9.4	
Gender (%)				
Male	63.9	59.0	62.2	
Female	36.1	41.0	37.8	

* 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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C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristicsPatients transplanted between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Characteristic	Center (N=264)	Region (N=1,647)	U.S. (N=18,602)	
Blood Type (%)				
0	43.6	46.0	46.6	
A	35.6	35.5	34.2	
В	15.5	13.4	14.7	
AB	5.3	5.0	4.5	
Previous Transplant (%)				
Yes	12.5	13.4	12.8	
No	87.5	86.6	87.2	
Peak PRA/CPRA Prior to Transplant (%)				
0-9%	82.6	64.7	59.8	
10-79%	11.4	21.0	22.3	
80+ %	6.1	14.2	17.9	
Unknown	0.0	0.1	0.0	
Body Mass Index (%)				
0-20	5.7	7.7	9.1	
21-25	26.1	24.2	27.0	
26-30	32.6	30.1	30.9	
31-35	22.3	22.8	20.9	
36-40	10.2	12.1	8.4	
41+	2.7	2.2	1.5	
Unknown	0.4	0.9	2.1	
Primary Disease (%)*				
Glomerular Diseases	23.5	19.8	20.8	
Tubular and Interstitial Disease	4.5	4.1	3.8	
Polycystic Kidneys	12.9	8.0	6.7	
Congenital, Familial, Metabolic	3.0	2.8	2.6	
Diabetes	27.3	29.8	29.8	
Renovascular & Vascular Diseases	0.0	0.0	0.1	
Neoplasms	0.8	0.4	0.4	
Hypertensive Nephrosclerosis	16.3	20.2	23.4	
Other Kidney	11.4	14.4	12.0	
Missing*	0.4	0.5	0.3	

* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.

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



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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Characteristic	Center (N=36)	Region (N=407)	U.S. (N=5,871)	
Blood Type (%)				
0	50.0	39.6	43.5	
A	41.7	45.5	37.6	
В	5.6	11.8	14.0	
AB	2.8	3.2	4.8	
Previous Transplant (%)				
Yes	13.9	11.1	9.7	
No	86.1	88.9	90.3	
Peak PRA/CPRA Prior to Transplant (%)				
0-9%	83.3	73.7	73.8	
10-79%	16.7	22.1	21.8	
80+ %	0.0	4.2	4.3	
Unknown	0.0	0.0	0.0	
Body Mass Index (%)				
0-20	8.3	10.6	12.3	
21-25	25.0	25.8	29.4	
26-30	27.8	31.0	29.1	
31-35	27.8	21.4	20.6	
36-40	8.3	9.1	6.5	
41+	2.8	2.0	1.1	
Unknown	0.0	0.2	0.9	
Primary Disease (%)*				
Glomerular Diseases	16.7	26.5	29.1	
Tubular and Interstitial Disease	5.6	3.7	4.4	
Polycystic Kidneys	16.7	15.0	11.8	
Congenital, Familial, Metabolic	5.6	6.1	3.7	
Diabetes	27.8	23.6	24.1	
Renovascular & Vascular Diseases	0.0	0.5	0.2	
Neoplasms	2.8	0.5	0.6	
Hypertensive Nephrosclerosis	16.7	16.0	16.1	
Other Kidney	8.3	7.1	9.6	
Missing*	0.0	1.0	0.4	

* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.

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



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C. Transplant Information

Table C3D. Deceased donor characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Donor Characteristic	Center (N=264)	Region (N=1,647)	U.S. (N=18,602)	
Cause of Death (%)				
Deceased: Stroke	9.8	19.4	21.1	
Deceased: MVA	10.2	10.4	13.7	
Deceased: Other	79.9	70.1	65.2	
Ethnicity/Race (%)*				
White	78.0	79.7	66.5	
African-American	11.0	13.5	13.9	
Hispanic/Latino	8.7	5.2	15.7	
Asian	0.4	1.0	2.5	
Other	1.9	0.6	1.4	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.5	0.8	
2-11 years	0.8	1.8	2.4	
12-17	4.2	2.6	3.8	
18-34	34.1	28.4	31.1	
35-49 years	40.2	38.3	34.9	
50-64 years	20.1	26.2	24.6	
65-69 years	0.8	2.1	2.1	
70+ years	0.0	0.1	0.3	
Gender (%)				
Male	64.0	63.9	64.7	
Female	36.0	36.1	35.3	
Blood Type (%)				
0	46.2	47.8	48.4	
A	36.4	37.6	36.7	
В	14.0	10.9	11.5	
AB	3.4	3.6	3.3	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C3L. Living donor characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Donor Characteristic	Center (N=36)	Region (N=407)	U.S. (N=5,871)	
Ethnicity/Race (%)*				
White	83.3	86.7	69.4	
African-American	5.6	6.1	8.3	
Hispanic/Latino	11.1	4.4	15.8	
Asian	0.0	1.5	4.7	
Other	0.0	1.2	1.9	
Not Reported	0.0	0.0	0.0	
Age (%)				
0-11 years	0.0	0.0	0.0	
12-17	0.0	0.0	0.0	
18-34	19.4	23.1	26.3	
35-49 years	44.4	43.7	39.4	
50-64 years	27.8	26.3	28.5	
65-69 years	5.6	5.2	4.4	
70+ years	2.8	1.7	1.3	
Gender (%)				
Male	33.3	35.1	36.3	
Female	66.7	64.9	63.7	
Blood Type (%)				
0	69.4	55.0	61.0	
А	25.0	35.4	27.9	
В	5.6	7.9	9.2	
AB	0.0	1.7	1.9	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C4D. Deceased donor transplant characteristicsTransplants performed between 07/01/2021 and 06/30/2022

Transplants performed between 07/01/2021 and 06/30/2022	Percentage in each category		
Transplant Characteristic	Center (N=264)	Region (N=1,647)	U.S. (N=18,602)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-11 hr	4.5	6.6	22.1
Deceased: 12-21 hr	53.7	49.3	50.9
Deceased: 22-31 hr	38.8	33.0	22.8
Deceased: 32-41 hr	3.0	6.8	2.7
Deceased: 42+ hr	0.0	3.8	0.5
Not Reported	0.0	0.6	1.0
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-11 hr	1.0	4.3	9.6
Deceased: 12-21 hr	30.5	41.2	48.2
Deceased: 22-31 hr	46.7	40.3	33.1
Deceased: 32-41 hr	20.8	11.4	6.7
Deceased: 42+ hr	0.5	2.5	1.3
Not Reported	0.5	0.3	1.1
_evel of Mismatch (%)			
A Locus Mismatches (%)			
0	9.8	12.8	11.1
1	37.1	38.6	39.3
2	53.0	48.6	49.5
Not Reported	0.0	0.0	0.1
B Locus Mismatches (%)	0.0	0.0	0.1
0	5.7	8.4	6.9
1	25.8	25.6	24.9
2	68.6	66.0	68.1
Not Reported	0.0	0.0	0.1
DR Locus Mismatches (%)	0.0	0.0	0.1
0	14.8	17.4	17.0
1	47.3	45.6	47.7
2	37.9	37.0	35.2
Not Reported	0.0	0.0	0.1
Total Mismatches (%)	0.0	0.0	0.1
	3.8	6.2	4.5
0 1	0.8	0.2	4.5
2	3.8	4.3	4.7
3	13.6	4.3	4.7
4	26.1	26.7	
5			27.6
6	36.0	32.7	32.8
-	15.9	15.2	15.0
Not Reported	0.0	0.0	0.1
Procedure Type (%)	00.4	00.4	00.0
Single organ	89.4	93.4	93.8
Multi organ	10.6	6.6	6.2
Dialysis in First Week After Transplant (%)	07.0	05.4	0 4 4
Yes	27.3	25.1	31.4
No	72.7	74.8	68.2
Not Reported	0.0	0.1	0.3
Donor Location (%)	o	ec -	
Local Donation Service Area (DSA)	25.4	28.7	40.8
Another Donation Service Area (DSA)	74.6	71.3	59.2
Median Time in Hospital After Transplant	3.0 Days	4.0 Days	5.0 Days

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA).

See COVID-19 Guide for pandemic-related follow-up limits.



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C. Transplant Information

Table C4L. Living donor transplant characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Percer	ategory	
Transplant Characteristic	Center (N=36)	Region (N=407)	U.S. (N=5,871)
Relation with Donor (%)			
Related	50.0	37.8	39.0
Unrelated	50.0	61.9	60.2
Not Reported	0.0	0.2	0.8
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	16.7	16.7	15.8
1	44.4	50.6	48.0
2	38.9	31.7	32.0
Not Reported	0.0	1.0	4.2
B Locus Mismatches (%)			
0	11.1	8.1	9.1
1	38.9	45.2	41.3
2	50.0	45.7	45.4
Not Reported	0.0	1.0	4.2
DR Locus Mismatches (%)			
0	13.9	12.5	14.6
1	44.4	52.8	47.1
2	41.7	33.7	34.1
Not Reported	0.0	1.0	4.2
Total Mismatches (%)			
0	2.8	4.4	4.4
1	8.3	2.0	3.4
2	13.9	13.0	11.8
3	19.4	22.9	22.0
4	11.1	21.4	17.9
5	16.7	23.6	23.1
6	27.8	11.8	13.2
Not Reported	0.0	1.0	4.2
Procedure Type (%)			
Single organ	100.0	100.0	100.0
Multi organ	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	0.0	2.0	2.6
No	100.0	98.0	96.9
Not Reported	0.0	0.0	0.5
Median Time in Hospital After Transplant	2.0 Days	4.0 Days	4.0 Days



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C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft

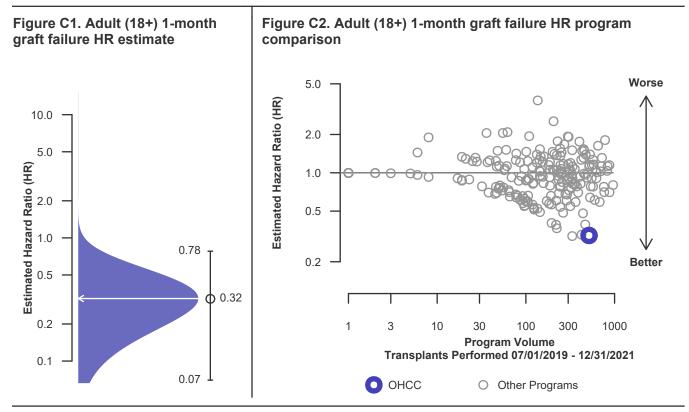
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	515	50,453
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	99.80%	98.49%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.57%	
Number of observed graft failures (including deaths) during the first month after transplant	1	752
Number of expected graft failures (including deaths) during the first month after transplant	7.32	
Estimated hazard ratio*	0.32	
95% credible interval for the hazard ratio**	[0.07, 0.78]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.07, 0.78], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 68% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 93% reduced risk up to 22% reduced risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): KidneyRECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft

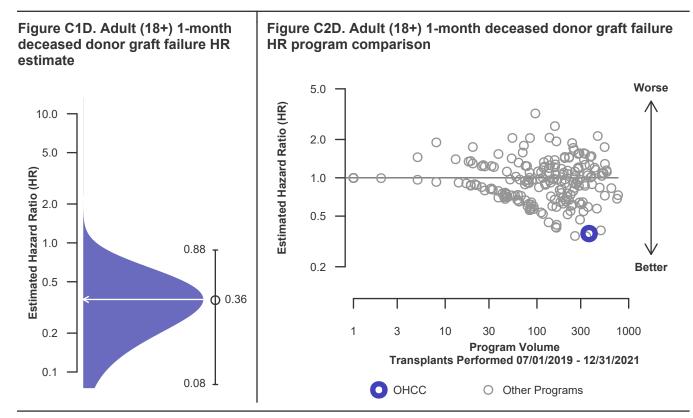
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	370	37,045
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	99.72%	98.24%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.32%	
Number of observed graft failures (including deaths) during the first month after transplant	1	644
Number of expected graft failures (including deaths) during the first month after transplant	6.23	
Estimated hazard ratio*	0.36	
95% credible interval for the hazard ratio**	[0.08, 0.88]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.08, 0.88], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 64% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 92% reduced risk up to 12% reduced risk.





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C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft

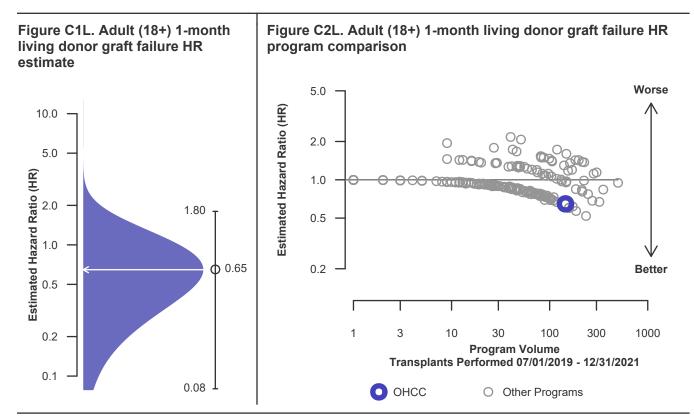
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	145	13,408
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.19%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.23%	
Number of observed graft failures (including deaths) during the first month after transplant	0	108
Number of expected graft failures (including deaths) during the first month after transplant	1.09	
Estimated hazard ratio*	0.65	
95% credible interval for the hazard ratio**	[0.08, 1.80]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.08, 1.80], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 35% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 92% reduced risk up to 80% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graft

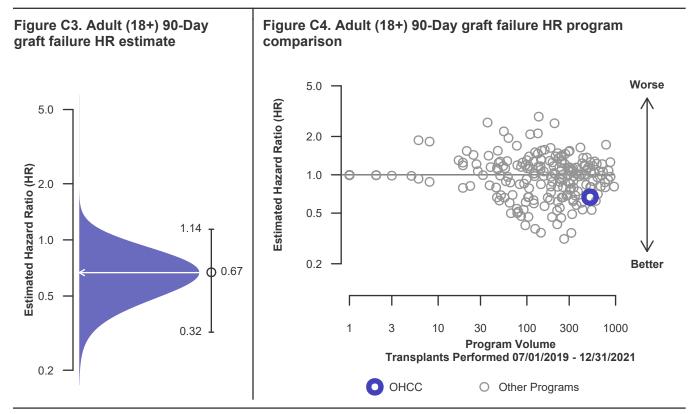
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	515	50,453
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	98.28%	97.23%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.38%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	8	1,336
Number of expected graft failures (including deaths) during the first 90 days after transplant	12.98	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.32, 1.14]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.32, 1.14], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 33% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 68% reduced risk up to 14% increased risk.





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C. Transplant Information

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft

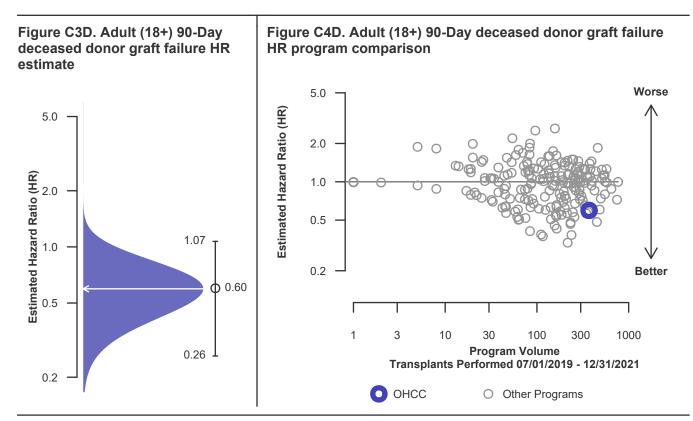
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	370	37,045
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	98.25%	96.68%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.81%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	6	1,178
Number of expected graft failures (including deaths) during the first 90 days after transplant	11.43	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.26, 1.07]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.26, 1.07], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 40% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 74% reduced risk up to 7% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): KidneyRECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C6L. Adult (18+) 90-Day survival with a functioning living donor graft

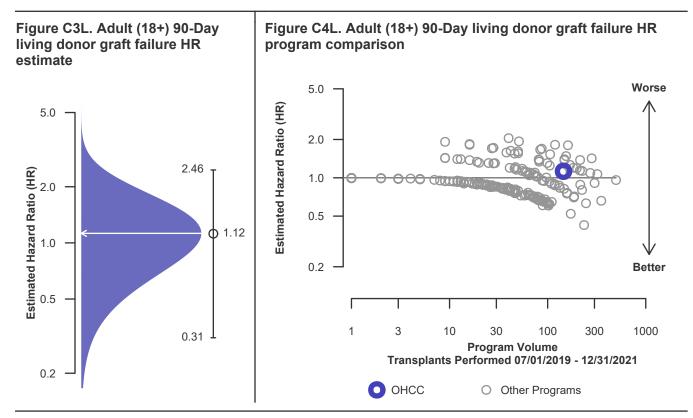
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	145	13,408
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	98.29%	98.78%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.85%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	158
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.56	
Estimated hazard ratio*	1.12	
95% credible interval for the hazard ratio**	[0.31, 2.46]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.31, 2.46], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 12% higher risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 69% reduced risk up to 146% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

Table C7. Adult (18+) 1-year survival with a functioning graft

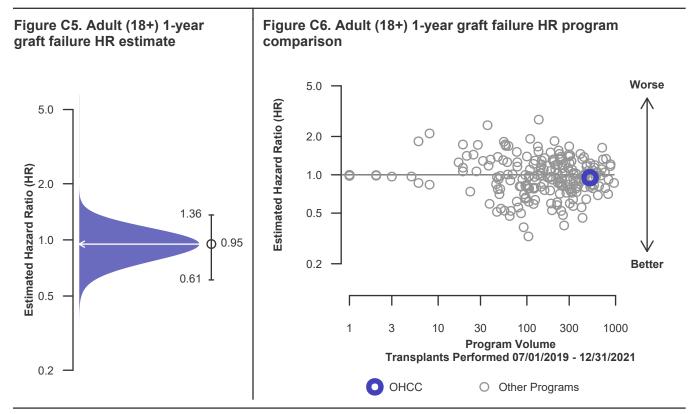
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	515	50,453
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	94.32%	93.85%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.19%	
Number of observed graft failures (including deaths) during the first year after transplant	22	2,380
Number of expected graft failures (including deaths) during the first year after transplant	23.29	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.61, 1.36]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.61, 1.36], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 39% reduced risk up to 36% increased risk.





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C. Transplant Information

Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft

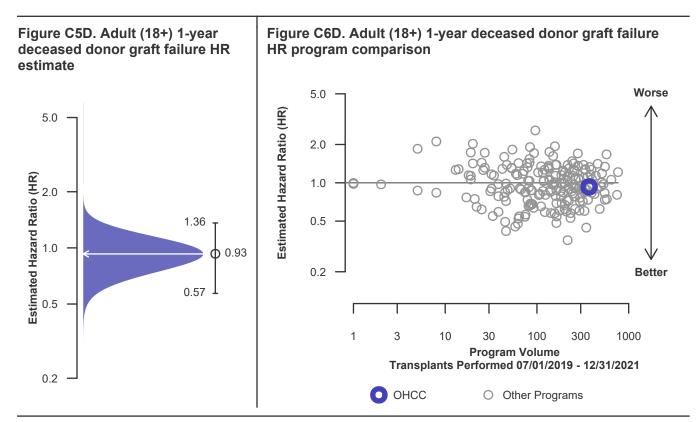
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	370	37,045
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	93.40%	92.61%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.87%	
Number of observed graft failures (including deaths) during the first year after transplant	19	2,110
Number of expected graft failures (including deaths) during the first year after transplant	20.63	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.57, 1.36]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.57, 1.36], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 43% reduced risk up to 36% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): KidneyRelease Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C7L. Adult (18+) 1-year survival with a functioning living donor graft

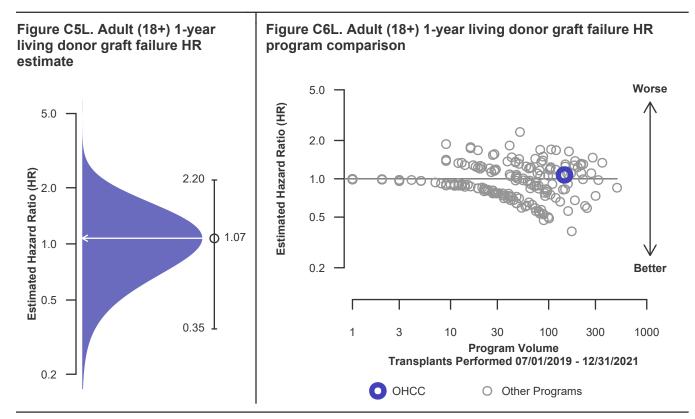
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	145	13,408
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	96.94%	97.39%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.54%	
Number of observed graft failures (including deaths) during the first year after transplant	3	270
Number of expected graft failures (including deaths) during the first year after transplant	2.66	
Estimated hazard ratio*	1.07	
95% credible interval for the hazard ratio**	[0.35, 2.20]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.35, 2.20], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 7% higher risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 65% reduced risk up to 120% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

Table C8. Adult (18+) 1-year Conditional survival with a functioning graft

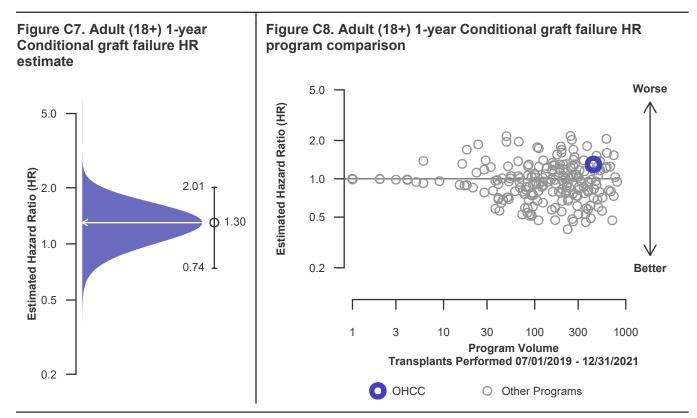
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · · · · · · · · · · · · · · · ·	OHCC	U.S.
Number of transplants evaluated	442	43,529
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		96.52%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.72%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	14	1,044
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	10.31	
Estimated hazard ratio*	1.30	
95% credible interval for the hazard ratio**	[0.74, 2.01]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.74, 2.01], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 30% higher risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 26% reduced risk up to 101% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): KidneyRECIPIENTSBased on Data Available: October 31, 2022

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

C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft

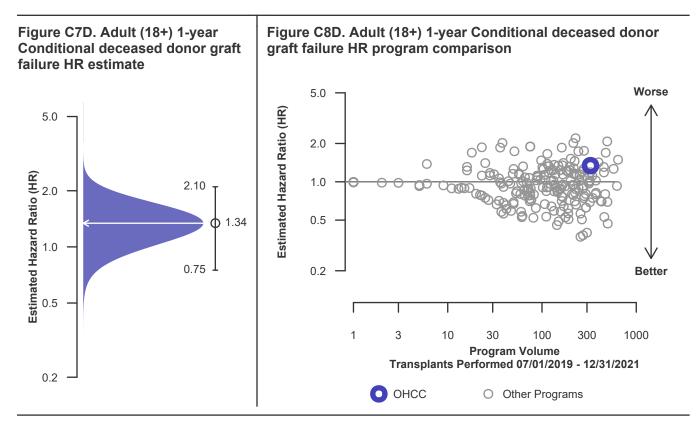
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	онсс	U.S.
Number of transplants evaluated	327	31,836
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		95.80%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	95.93%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	13	932
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	9.20	
Estimated hazard ratio*	1.34	
95% credible interval for the hazard ratio**	[0.75, 2.10]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.75, 2.10], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 34% higher risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 25% reduced risk up to 110% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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

C. Transplant Information

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft

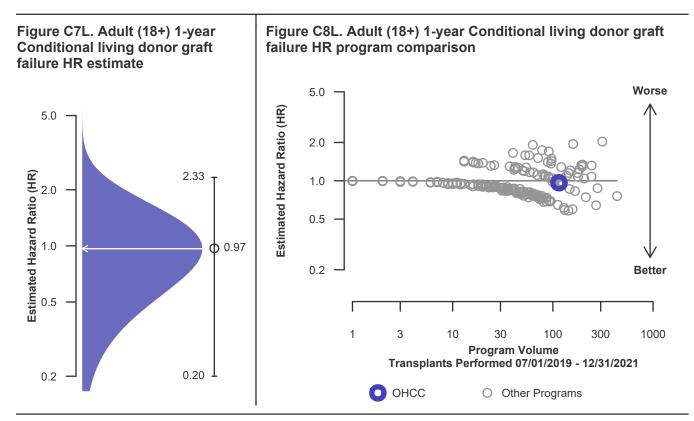
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	115	11,693
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		98.60%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	98.67%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	112
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	1.11	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.20, 2.33]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.20, 2.33], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 80% reduced risk up to 133% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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

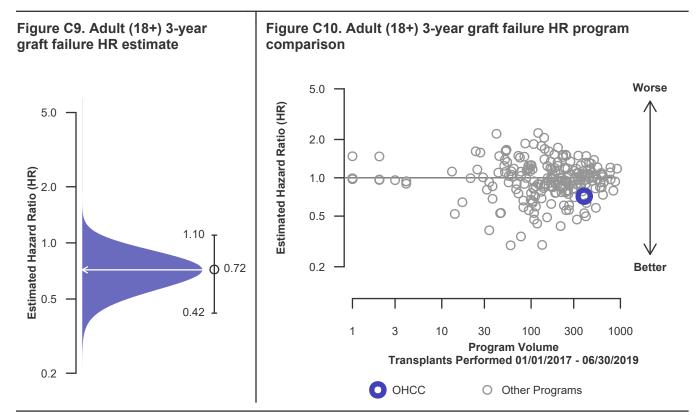
C. Transplant Information

Table C9. Adult (18+) 3-year survival with a functioning graftSingle organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failuresFollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	OHCC	U.S.
Number of transplants evaluated	393	48,027
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	93.74%	90.55%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.44%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	15	3,167
Number of expected graft failures (including deaths) during the first 3 years after transplant	21.72	
Estimated hazard ratio*	0.72	
95% credible interval for the hazard ratio**	[0.42, 1.10]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.42, 1.10], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 28% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 58% reduced risk up to 10% increased risk.





Center Code: OHCC REGISTRY OF Transplant Program (Organ): Kidney TRANSPLANT Release Date: January 5, 2023 RECIPIENTS Based on Data Available: October 31, 2022 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

C. Transplant Information

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

Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	OHCC	U.S.
Number of transplants evaluated	239	33,066
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	88.47%	88.67%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.11%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	14	2,675
Number of expected graft failures (including deaths) during the first 3 years after transplant	16.80	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.49, 1.32]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.49, 1.32], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 15% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 51% reduced risk up to 32% increased risk.

Figure C9D. Adult (18+) 3-year Figure C10D. Adult (18+) 3-year deceased donor graft failure deceased donor graft failure HR **HR** program comparison estimate Worse 5.0 Estimated Hazard Ratio (HR) 5.0 2.0 \cap 0 Estimated Hazard Ratio (HR) 1.0 2.0 0.5 1.32 1.0 0.85 0.2 **Better** 0.5 0.49 3 1 10 30 100 300 1000 **Program Volume** Transplants Performed 01/01/2017 - 06/30/2019 0.2 OHCC O Other Programs



REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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

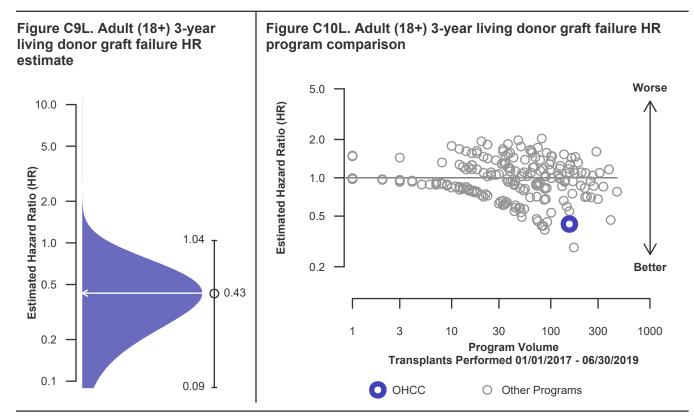
C. Transplant Information

Table C9L. Adult (18+) 3-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	OHCC	U.S.
Number of transplants evaluated	154	14,961
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	99.35%	94.76%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.05%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	492
Number of expected graft failures (including deaths) during the first 3 years after transplant	4.93	
Estimated hazard ratio*	0.43	
95% credible interval for the hazard ratio**	[0.09, 1.04]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.09, 1.04], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 57% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 91% reduced risk up to 4% increased risk.





Center Code: OHCC REGISTRY OF Transplant Program (Organ): Kidney TRANSPLANT Release Date: January 5, 2023 RECIPIENTS Based on Data Available: October 31, 2022

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C. Transplant Information

Table C10. Pediatric (<18) 1-month survival with a functioning graft

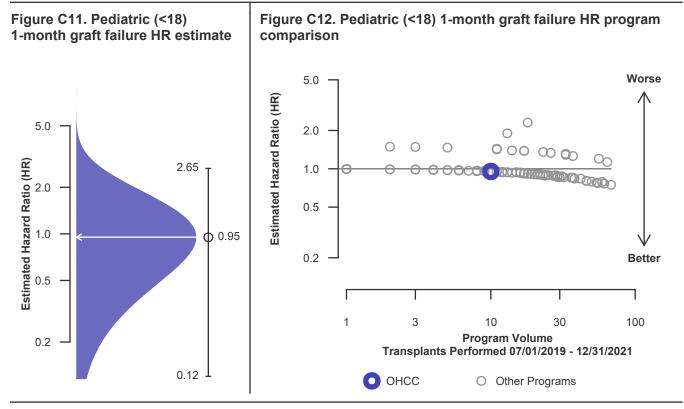
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	10	2,029
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.01%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.01%	
Number of observed graft failures (including deaths) during the first month after transplant	0	20
Number of expected graft failures (including deaths) during the first month after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.65]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC'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 OHCC's true hazard ratio with 95% probability. The best estimate is 5% lower risk

of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 165% increased risk.





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C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>

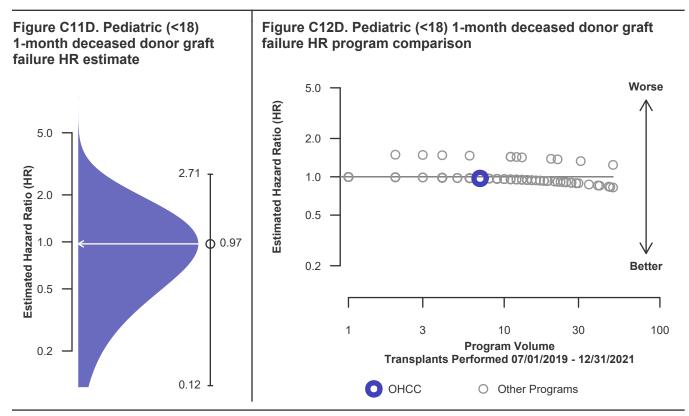
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	7	1,418
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.15%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.15%	
Number of observed graft failures (including deaths) during the first month after transplant	0	12
Number of expected graft failures (including deaths) during the first month after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.71]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.71], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 3% lower risk

** The 95% credible interval, [0.12, 2.71], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 171% increased risk.





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C. Transplant Information

Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft

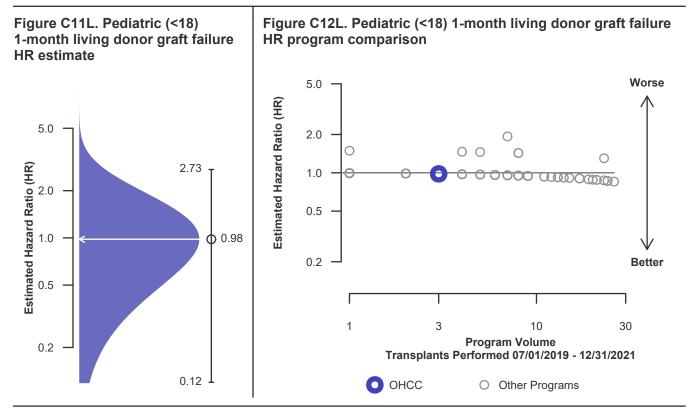
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	3	611
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.68%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.68%	
Number of observed graft failures (including deaths) during the first month after transplant	0	8
Number of expected graft failures (including deaths) during the first month after transplant	0.04	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.73]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.73], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 173% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C11. Pediatric (<18) 90-Day survival with a functioning graft

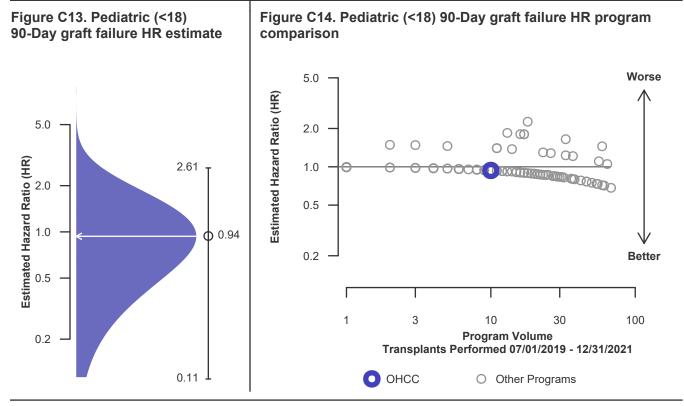
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	10	2,029
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	98.64%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.64%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	27
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.14	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.61]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.11, 2.61], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 6% lower risk

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





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C. Transplant Information

Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft

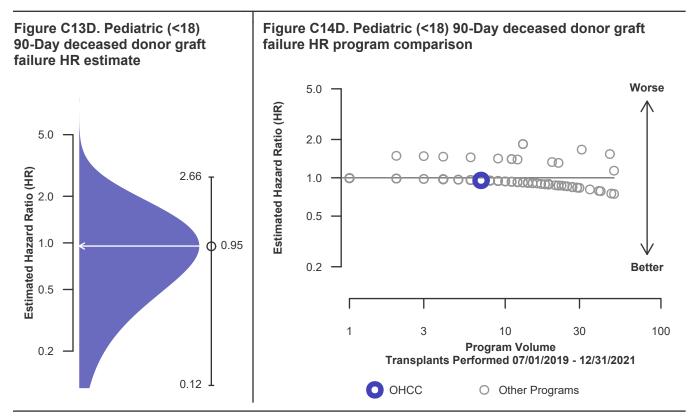
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	7	1,418
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	98.63%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.63%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	19
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.66]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.66], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 166% increased risk.





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C. Transplant Information

Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft

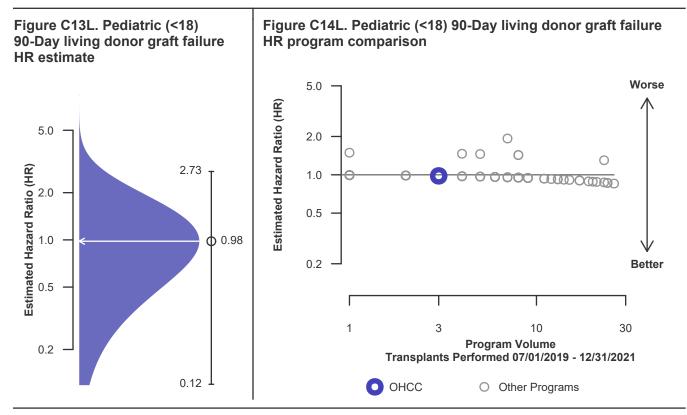
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	3	611
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	98.68%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.68%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	8
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.04	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.73]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.73], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 173% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): KidneyRelease Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C12. Pediatric (<18) 1-year survival with a functioning graft

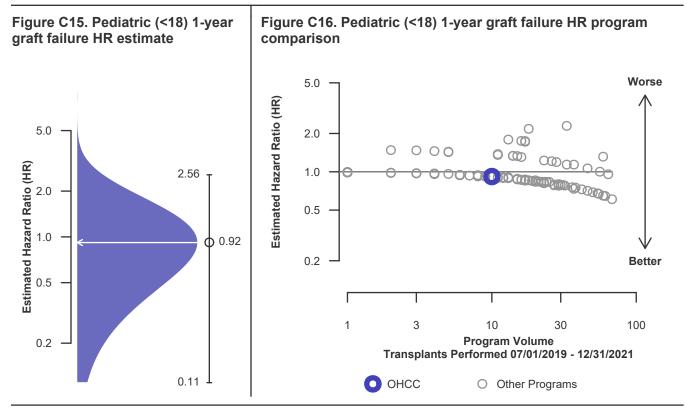
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	10	2,029
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	97.80%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.81%	
Number of observed graft failures (including deaths) during the first year after transplant	0	37
Number of expected graft failures (including 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 The Cleveland Clinic Foundation'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 OHCC'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 OHCC's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 89% reduced risk up to 156% increased risk.





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C. Transplant Information

Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft

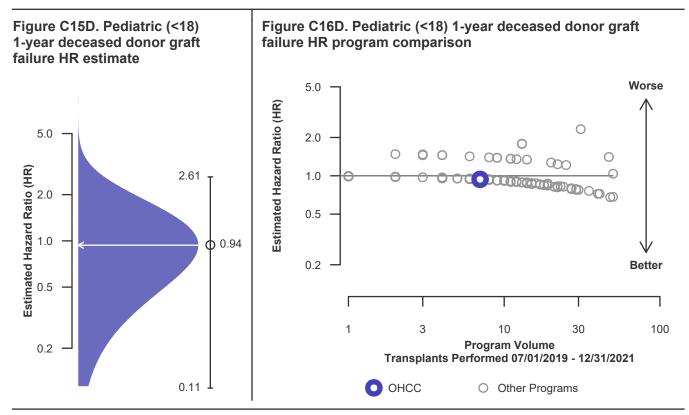
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	OHCC	U.S.
Number of transplants evaluated	7	1,418
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	97.68%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.69%	
Number of observed graft failures (including deaths) during the first year after transplant	0	27
Number of expected graft failures (including deaths) during the first year after transplant	0.13	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.61]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft</th>

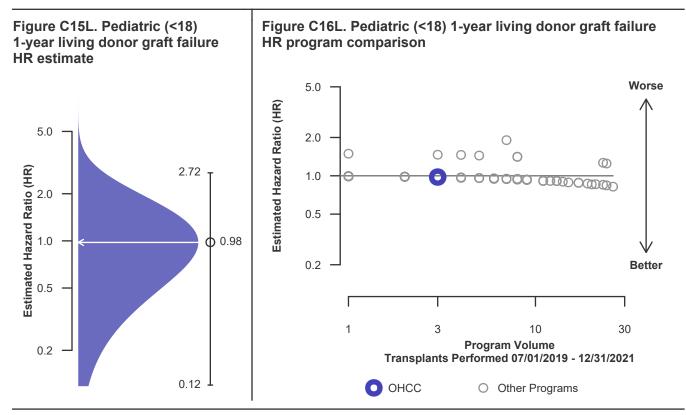
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	3	611
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.08%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.08%	
Number of observed graft failures (including deaths) during the first year after transplant	0	10
Number of expected graft failures (including deaths) during the first year 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 The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft</th>

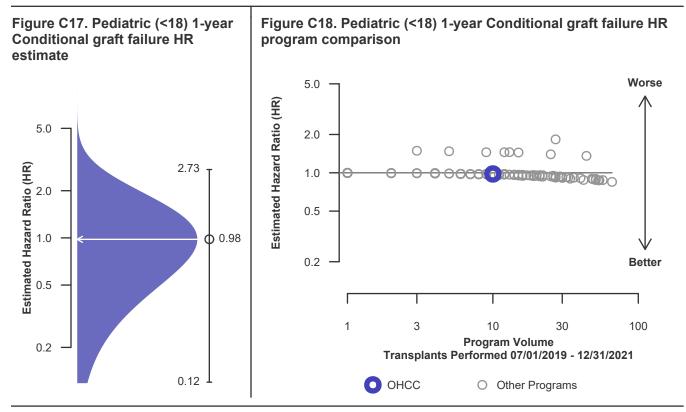
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ОНСС	U.S.
Number of transplants evaluated	10	1,826
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		99.15%
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)	99.15%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	10
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.04	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.73]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.73], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 173% increased risk.





Center Code: OHCC REGISTRY OF Transplant Program (Organ): Kidney TRANSPLANT Release Date: January 5, 2023 RECIPIENTS Based on Data Available: October 31, 2022

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C. Transplant Information

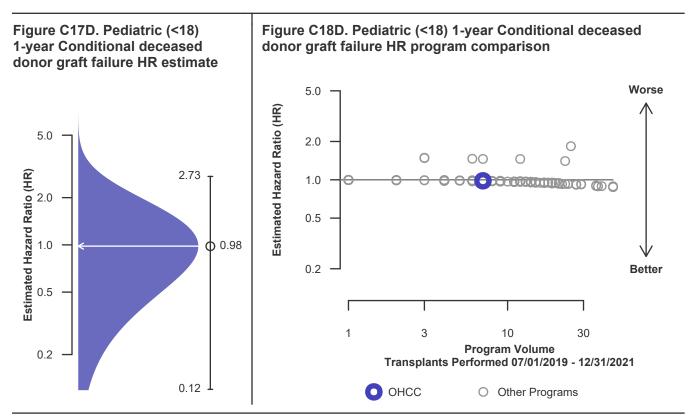
Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ОНСС	U.S.
Number of transplants evaluated	7	1,278
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		99.04%
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)	99.04%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	8
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.04	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.73]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.73], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 2% lower risk

of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 173% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): KidneyRelease Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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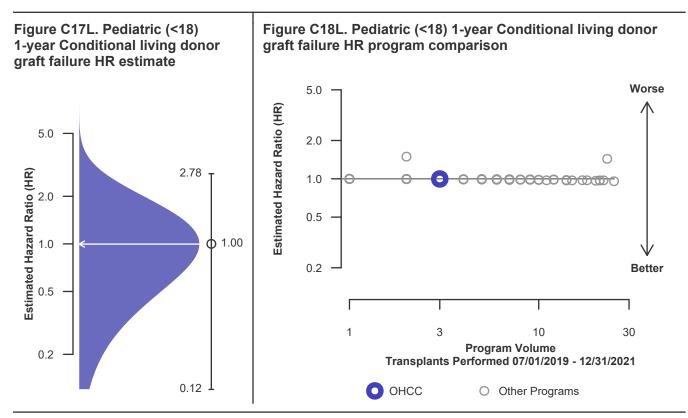
C. Transplant Information

Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

OHCC U.S. Number of transplants evaluated 3 548 Estimated probability of surviving with a functioning graft at 1 year, among patients 100.00% 99.40% with a functioning graft at day 90 (unadjusted for patient and donor characteristics) Expected probability of surviving with a functioning graft at 1 year, among patients 99.40% with a functioning graft at day 90 (adjusted for patient and donor characteristics) Number of observed graft failures (including deaths) 0 2 from day 91 through day 365 after transplant Number of expected graft failures (including deaths) 0.01 from day 91 through day 365 after transplant Estimated hazard ratio* 1.00 95% credible interval for the hazard ratio** [0.12, 2.78]

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.78], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 178% increased risk.





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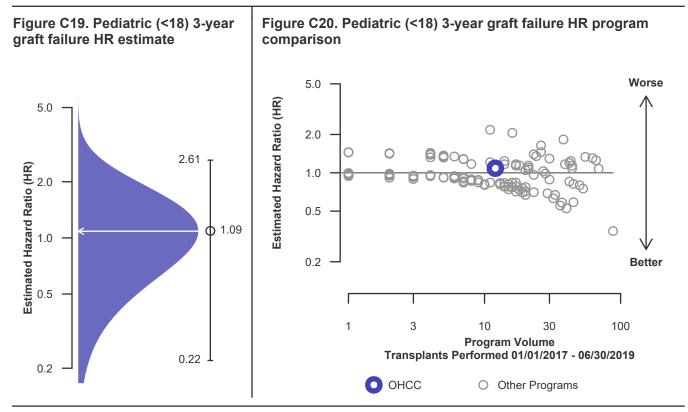
C. Transplant Information

Table C14. Pediatric (<18) 3-year survival with a functioning graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

· · · · ·	OHCC	U.S.
Number of transplants evaluated	12	2,081
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	91.67%	94.51%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.82%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	77
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.76	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.22, 2.61]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.22, 2.61], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 9% higher risk

of graft failure compared to an average program, but OHCC's performance could plausibly range from 78% reduced risk up to 161% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

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

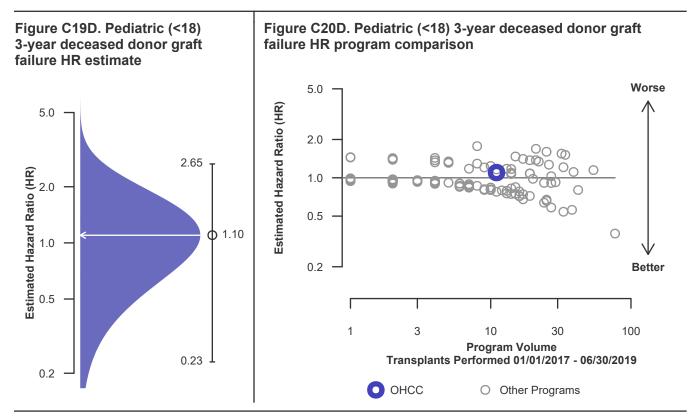
Single organ transplants performed between 01/01/2017 and 06/30/2019

Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	OHCC	U.S.
Number of transplants evaluated	11	1,407
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	90.91%	93.52%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.37%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	64
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.73	
Estimated hazard ratio*	1.10	
95% credible interval for the hazard ratio**	[0.23, 2.65]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.23, 2.65], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 10% higher risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 77% reduced risk up to 165% increased risk.





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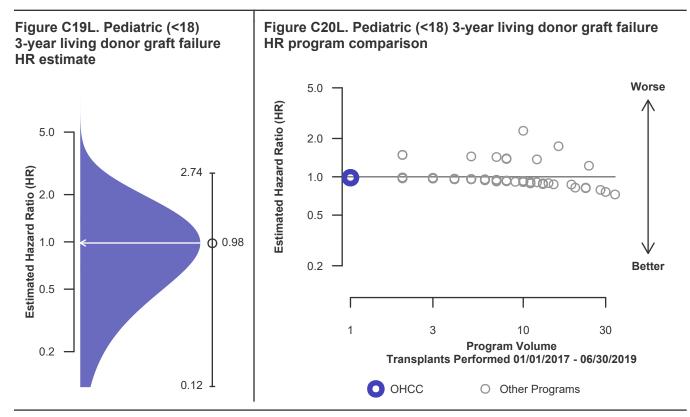
C. Transplant Information

Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020	онсс	U.S.
Number of transplants evaluated	1	674
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	96.73%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	96.74%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	13
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.03	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.74]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.12, 2.74], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 2% lower risk

of graft failure compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 174% increased risk.





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C. Transplant Information

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

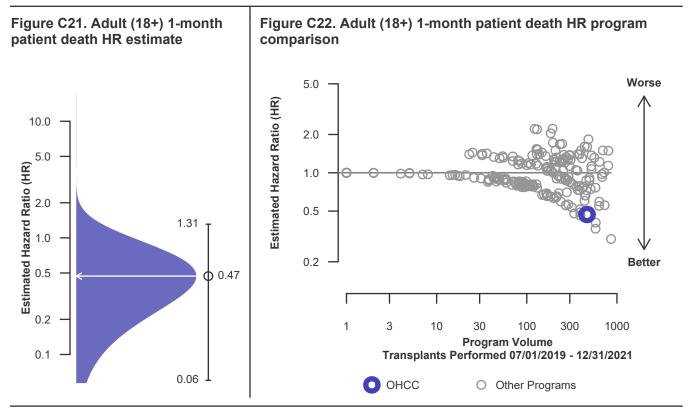
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 **Retransplants excluded**

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

	OHCC	U.S.
Number of transplants evaluated	466	45,066
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.46%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.51%	
Number of observed deaths during the first month after transplant	0	241
Number of expected deaths during the first month after transplant	2.25	
Estimated hazard ratio*	0.47	
95% credible interval for the hazard ratio**	[0.06, 1.31]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.06, 1.31], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 53% lower risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 94% reduced risk up to 31% increased risk.





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C. Transplant Information

Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

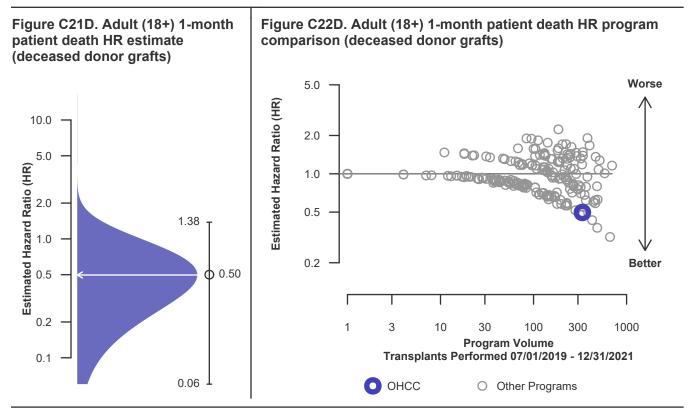
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 **Retransplants excluded**

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

	OHCC	U.S.
Number of transplants evaluated	335	32,831
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.33%
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	217
Number of expected deaths during the first month after transplant	2.03	
Estimated hazard ratio*	0.50	
95% credible interval for the hazard ratio**	[0.06, 1.38]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.06, 1.38], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 50% lower risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 94% reduced risk up to 38% increased risk.





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C. Transplant Information

Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)

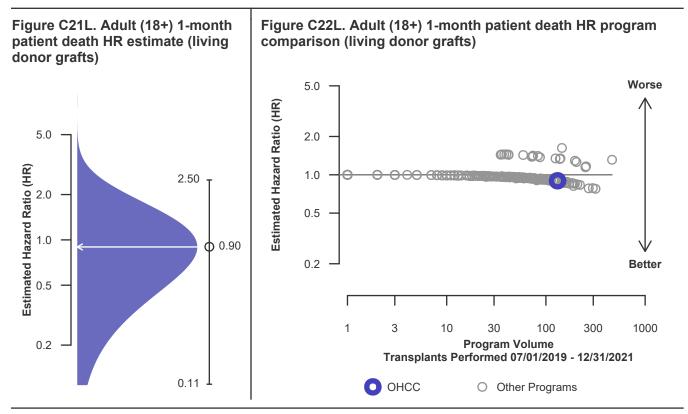
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

· · · ·	OHCC	U.S.
Number of transplants evaluated	131	12,235
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.80%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.82%	
Number of observed deaths during the first month after transplant	0	24
Number of expected 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 The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death 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 OHCC's true hazard ratio with 95% probability. The best estimate is 10% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 89% reduced risk up to 150% increased risk.





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C. Transplant Information

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

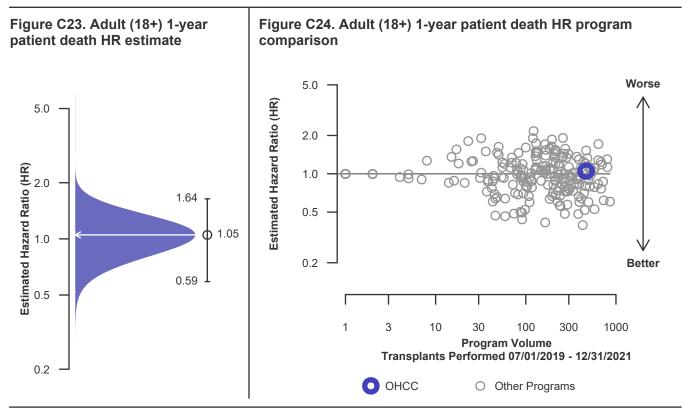
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	OHCC	U.S.
Number of transplants evaluated	466	45,066
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	96.35%	95.89%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.27%	
Number of observed deaths during the first year after transplant	13	1,307
Number of expected deaths during the first year after transplant	12.28	
Estimated hazard ratio*	1.05	
95% credible interval for the hazard ratio**	[0.59, 1.64]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.59, 1.64], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 5% higher risk of patient death compared to an average program, but OHCC's performance could plausibly range from 41% reduced risk up to 64% increased risk.





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C. Transplant Information

Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients)

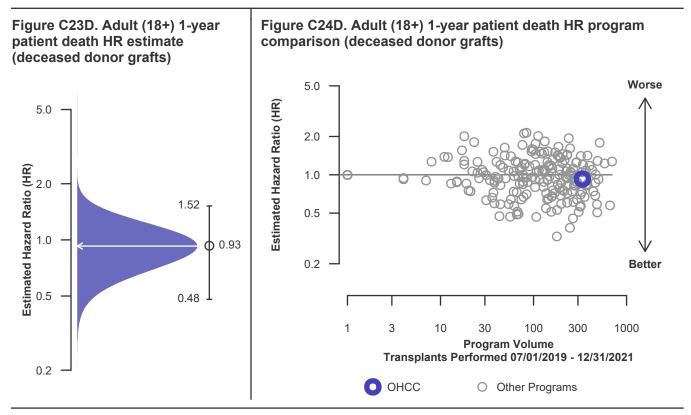
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 **Retransplants excluded**

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

	OHCC	U.S.
Number of transplants evaluated	335	32,831
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	96.31%	95.03%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.43%	
Number of observed deaths during the first year after transplant	10	1,165
Number of expected deaths during the first year after transplant	10.95	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.48, 1.52]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.48, 1.52], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 7% lower risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 52% reduced risk up to 52% increased risk.





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C. Transplant Information

Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)

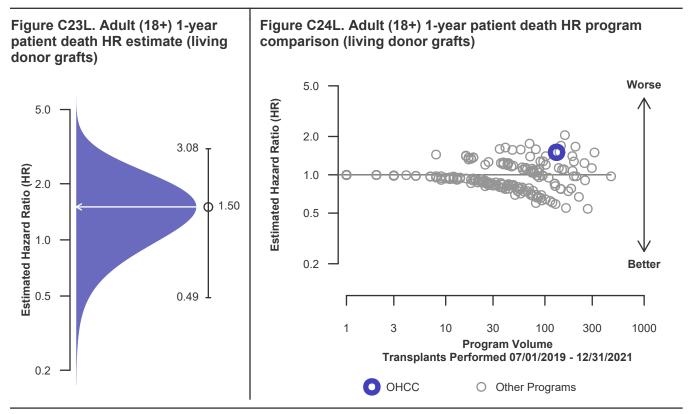
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 **Retransplants excluded**

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

	OHCC	U.S.
Number of transplants evaluated	131	12,235
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	96.63%	98.31%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	98.43%	
Number of observed deaths during the first year after transplant	3	142
Number of expected deaths during the first year after transplant	1.33	
Estimated hazard ratio*	1.50	
95% credible interval for the hazard ratio**	[0.49, 3.08]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.49, 3.08], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 50% higher risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 51% reduced risk up to 208% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

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

Single organ transplants performed between 01/01/2017 and 06/30/2019

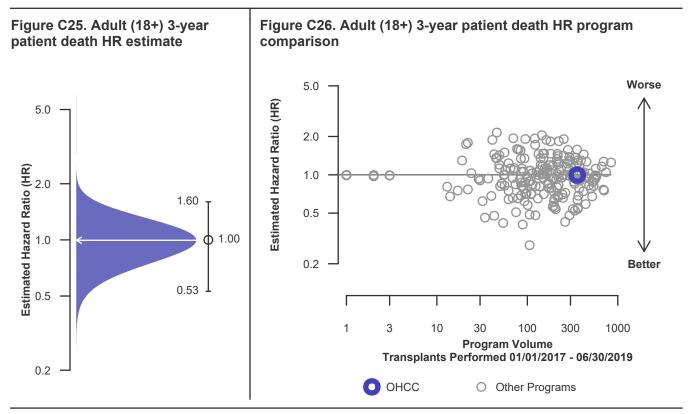
Retransplants excluded

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

	OHCC	U.S.
Number of transplants evaluated	356	42,494
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	94.59%	94.47%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.85%	
Number of observed deaths during the first 3 years after transplant	11	1,611
Number of expected deaths during the first 3 years after transplant	11.06	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.53, 1.60]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.53, 1.60], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 47% reduced risk up to 60% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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C. Transplant Information

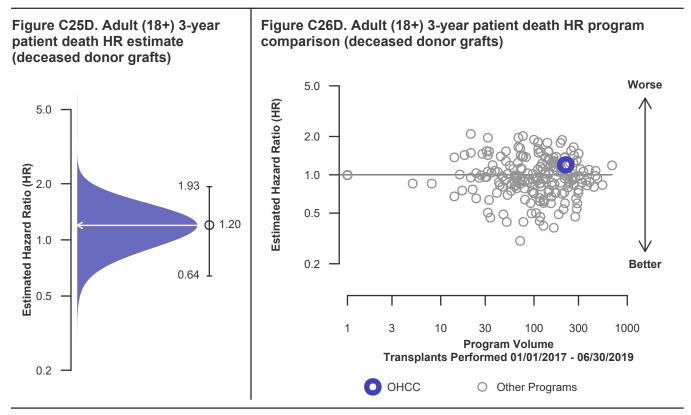
Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

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

	OHCC	U.S.
Number of transplants evaluated	219	28,971
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	89.93%	93.22%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.38%	
Number of observed deaths during the first 3 years after transplant	11	1,385
Number of expected deaths during the first 3 years after transplant	8.87	
Estimated hazard ratio*	1.20	
95% credible interval for the hazard ratio**	[0.64, 1.93]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.64, 1.93], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 20% higher risk of patient death compared to an average program, but OHCC's performance could plausibly range from 36% reduced risk up to 93% increased risk.





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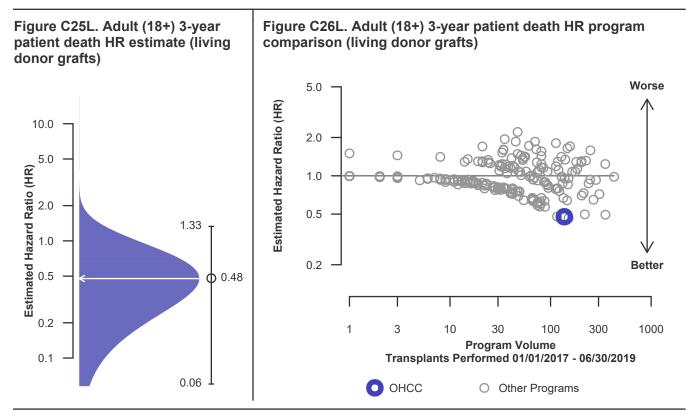
C. Transplant Information

Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 **Retransplants excluded** Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	ОНСС	U.S.
Number of transplants evaluated	137	13,523
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	97.13%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	97.21%	
Number of observed deaths during the first 3 years after transplant	0	226
Number of expected deaths during the first 3 years after transplant	2.20	
Estimated hazard ratio*	0.48	
95% credible interval for the hazard ratio**	[0.06, 1.33]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.06, 1.33], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 52% lower risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 94% reduced risk up to 33% increased risk.





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C. Transplant Information

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

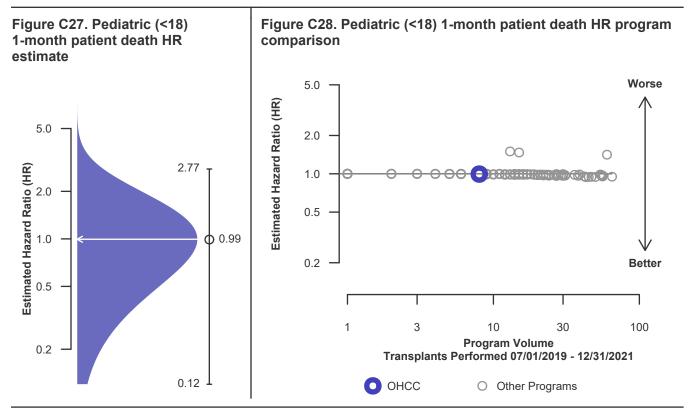
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	OHCC	U.S.
Number of transplants evaluated	8	1,870
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.84%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.87%	
Number of observed deaths during the first month after transplant	0	3
Number of expected deaths during the first month after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.77], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 177% increased risk.





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C. Transplant Information

Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th>

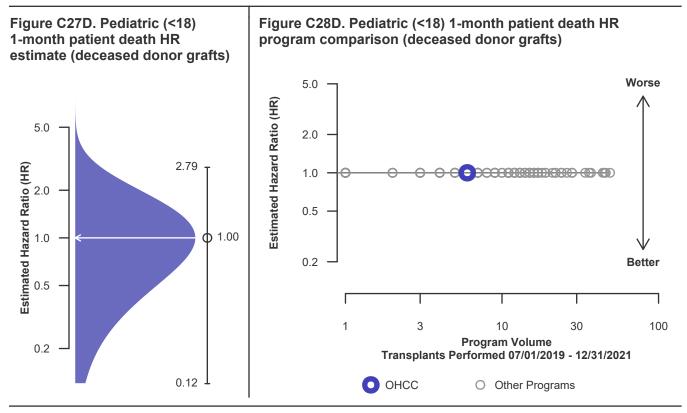
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	OHCC	U.S.
Number of transplants evaluated	6	1,297
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	100.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.79], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 179% increased risk.





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C. Transplant Information

Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)

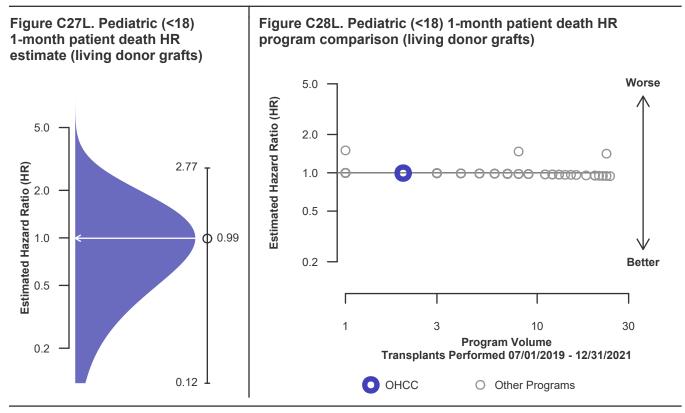
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 **Retransplants excluded**

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

	OHCC	U.S.
Number of transplants evaluated	2	573
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.46%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.47%	
Number of observed deaths during the first month after transplant	0	3
Number of expected deaths during the first month after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.77], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 1% lower risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 177% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): KidneyRECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

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

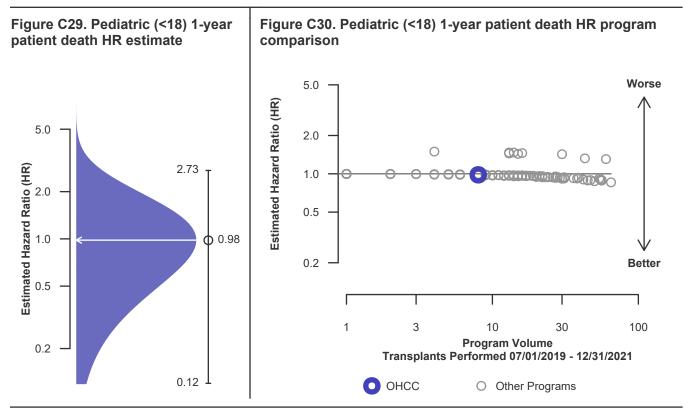
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

· · · · ·	OHCC	U.S.
Number of transplants evaluated	8	1,870
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.34%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.38%	
Number of observed deaths during the first year after transplant	0	9
Number of expected deaths during the first year after transplant	0.04	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.73]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.73], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 173% increased risk.





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C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)

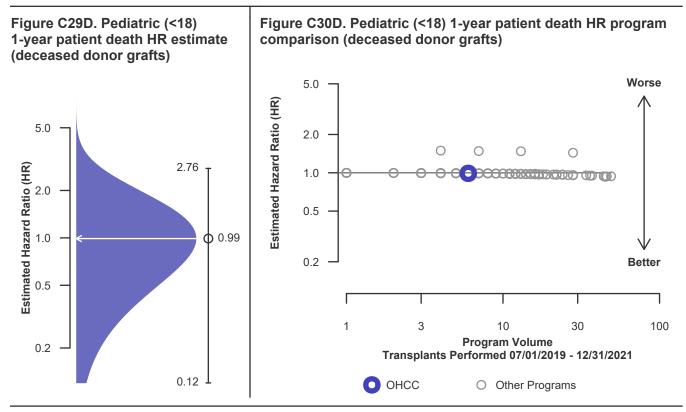
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	OHCC	U.S.
Number of transplants evaluated	6	1,297
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.57%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.57%	
Number of observed deaths during the first year after transplant	0	4
Number of expected deaths during the first year after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.76], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 176% increased risk.





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C. Transplant Information

Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)

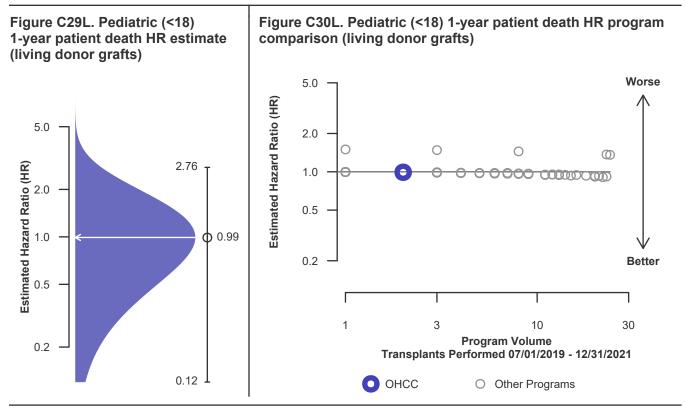
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 **Retransplants excluded**

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

	OHCC	U.S.
Number of transplants evaluated	2	573
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.81%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	98.81%	
Number of observed deaths during the first year after transplant	0	5
Number of expected deaths during the first year after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.76], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 1% lower risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 176% increased risk.





REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Kidney
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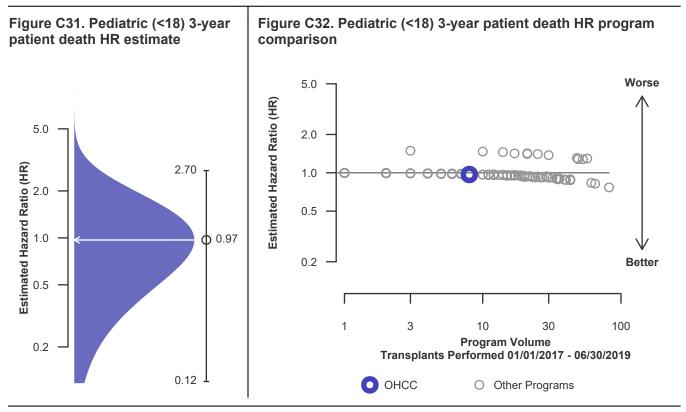
C. Transplant Information

Table C20. Pediatric (<18) 3-year patient survival</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020 OHCC U.S. Number of transplants evaluated 8 1,882 Estimated probability of surviving at 3 years 100.00% 99.01% (unadjusted for patient and donor characteristics) Expected probability of surviving at 3 years 99.06% ---(adjusted for patient and donor characteristics) Number of observed deaths during the first 3 years after transplant 0 12 Number of expected deaths during the first 3 years after transplant 0.06 Estimated hazard ratio* 0.97 95% credible interval for the hazard ratio** [0.12, 2.70]

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.70], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 170% 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 01/01/2017 and 06/30/2019

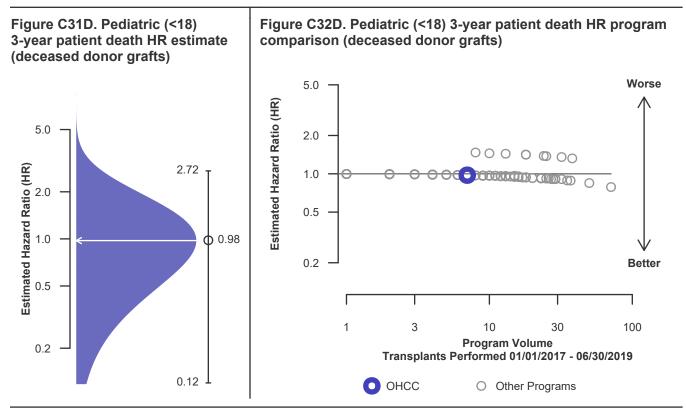
Retransplants excluded

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

	OHCC	U.S.
Number of transplants evaluated	7	1,259
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.10%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.10%	
Number of observed deaths during the first 3 years after transplant	0	9
Number of expected deaths during the first 3 years 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 The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.72], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 2% lower risk

of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 172% increased risk.





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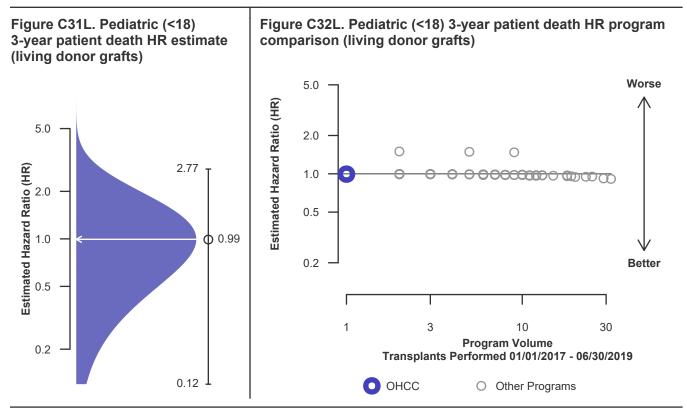
C. Transplant Information

Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excludedFollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	OHCC	U.S.
Number of transplants evaluated	1	623
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	98.77%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.77%	
Number of observed deaths during the first 3 years after transplant	0	3
Number of expected deaths during the first 3 years after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

risk). If OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0. ** The 95% credible interval, [0.12, 2.77], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 88% reduced risk up to 177% increased risk.





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C. Transplant Information

Table C21. Multi-organ transplant graft survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed		Kidney Graft Failures		Estimated Kidney Graft Survival	
	OHCC-TX1	USA	OHCC-TX1	USA	OHCC-TX1	USA
Kidney-Heart	20	736	2	101	90.0%	86.0%
Kidney-Liver	50	1,904	4	219	91.8%	88.1%
Kidney-Pancreas-Liver-Intestine	1	4	0	1	100.0%	75.0%
Kidney-Pancreas	16	2,070	0	102	100.0%	94.8%

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transp Perfor OHCC-TX1	med	Patient D OHCC-TX1	eaths USA	Estima Patient S OHCC-TX1	
Kidney-Heart	20	736	0	77	100.0%	89.4%
Kidney-Liver	50	1,904	3	176	93.8%	90.3%
Kidney-Pancreas-Liver-Intestine	1	4	0	1	100.0%	75.0%
Kidney-Pancreas	16	2,070	0	72	100.0%	96.4%

Pediatric (<18) Transplants

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

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



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D. Living Donor Information

Table D1. Living donor summary: 07/01/2019 - 06/30/2022

		This Center			United States		
Living Donor Follow-Up	07/2019- 06/2020	07/2020- 06/2021	07/2021- 12/2021	07/2019- 06/2020	07/2020- 06/2021	07/2021- 12/2021	
Number of Living Donors	74	69	18	5,778	5,911	3,002	
6-Month Follow-Up Donors due for follow-up	18	48	14	1,463	4,387	2,457	
Timely clinical data	13 72.2%	38 79.2%	11 78.6%	1,239 84.7%	3,851 87.8%	2,137 87.0%	
Timely lab data	12 66.7%	37 77.1%	11 78.6%	1,138 77.8%	3,629 82.7%	2,023 82.3%	
12-Month Follow-Up Donors due for follow-up	11	66		921	5,319		
Timely clinical data	8 72.7%	53 80.3%		752 81.7%	4,481 84.2%		
Timely lab data	9 81.8%	47 71.2%		716 77.7%	4,093 77.0%		
24-Month Follow-Up Donors due for follow-up	69			5,240			
Timely clinical data	32 46.4%			4,042 77.1%			
Timely lab data	25 36.2%			3,589 68.5%			

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