

Center Code: COUC Transplant Program (Organ): Kidney Release Date: January 5, 2023

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 quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the January 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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#### **User Guide**

This report contains a wide range of useful information about the kidney transplant program at University of Colorado Hospital/Health Science Center. 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 33.4 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 1.2 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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# A. Program Summary

Figure A1. Waiting list and transplant activity

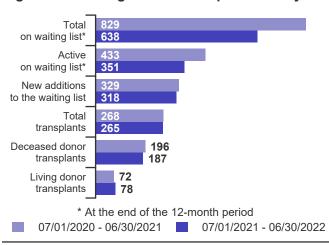


 
 Table A1. Census of transplant recipients

 Recipients
 07/01/2020-06/30/2021
 07/01/2021-06/30/2022

 Transplanted at this center
 268
 265

 Followed by this center\*
 1,739
 1,835

 ...transplanted at this program
 1,663
 1,750

76

85

...transplanted elsewhere

Figure A2. Transplant rates 07/01/2020 - 06/30/2022

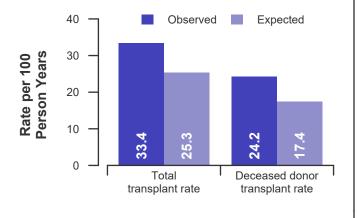


Figure A3. Pre-transplant mortality rates 07/01/2020 - 06/30/2022

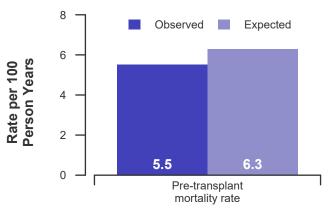


Figure A4. First-year adult graft and patient survival: 07/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2021

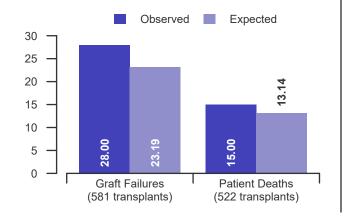


Figure A5. First-year pediatric graft & patient survival: 07/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2021

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021

<sup>\*</sup> Recipients followed are transplant recipients for whom the center has submitted a post-transplant follow-up form for a transplant that took place before the 12-month interval for each column.



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

		its for center	as percent of	Activity for 07/01/2021 to 06/30/202 as percent of registrants on waiting on 07/01/2021			
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	884	829	100.0	100.0	100.0		
New listings at this center	329	318	38.4	61.8	44.5		
Removals							
Transferred to another center	4	6	0.7	1.2	0.9		
Received living donor transplant*	71	75	9.0	9.6	6.0		
Received deceased donor transplant*	196	187	22.6	29.7	19.3		
Died	35	38	4.6	4.5	4.9		
Transplanted at another center	26	18	2.2	3.3	4.0		
Deteriorated	18	75	9.0	6.9	4.5		
Recovered	1	8	1.0	8.0	0.3		
Other reasons	33	102	12.3	6.8	5.1		
On waiting list at end of period	829	638	77.0	98.9	99.5		

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



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2021 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=318)	OPTN Region (N=2,333)	U.S. (N=42,769)	This Center (N=638)	OPTN Region (N=3,733)	U.S. (N=95,651)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Ethnicity/Race (%)*								
White	51.6	62.2	41.0	50.6	59.5	35.6		
African-American	12.6	20.4	29.5	14.1	21.9	31.5		
Hispanic/Latino	27.4	10.6	19.3	25.2	11.1	21.0		
Asian	6.6	4.7	8.6	7.2	5.3	10.1		
Other	1.9	2.1	1.6	2.8	2.2	1.8		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Age (%)								
<2 years	0.0	0.3	0.1	0.0	0.1	0.1		
2-11 years	0.0	1.4	0.9	0.0	1.1	0.6		
12-17 years	0.0	1.9	1.5	0.0	1.5	1.1		
18-34 years	12.9	10.1	10.3	9.9	9.1	9.8		
35-49 years	31.4	22.5	24.3	28.8	22.5	26.4		
50-64 years	39.0	37.0	41.0	42.9	40.0	43.4		
65-69 years	11.3	14.7	13.3	13.2	15.1	12.4		
70+ years	5.3	12.0	8.6	5.2	10.6	6.2		
Gender (%)								
Male	66.4	62.2	61.9	65.8	62.8	62.0		
Female	33.6	37.8	38.1	34.2	37.2	38.0		

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



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

Medical Characteristic		ting List Regis 021 to 06/30/20			All Waiting List Registrations on 06/30/2022 (%)			
medical characteristic	This Center (N=318)	OPTN Region (N=2,333)	U.S. (N=42,769)	This Center (N=638)	OPTN Region (N=3,733)	U.S. (N=95,651)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Blood Type (%)								
0	51.6	48.7	49.1	60.2	54.9	54.2		
A	30.8	34.4	32.0	25.1	28.8	26.9		
В	14.8	13.8	15.1	13.3	14.3	16.4		
AB	2.8	3.1	3.8	1.4	2.0	2.5		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Previous Transplant (%)								
Yes	11.6	13.0	12.2	12.5	14.4	13.5		
No	88.4	87.0	87.8	87.5	85.6	86.5		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Initial CPRA (%)								
0-9%	84.9	79.0	78.2	87.8	80.8	79.3		
10-79%	9.7	13.9	14.1	6.3	12.1	13.5		
80+%	5.3	7.1	7.6	6.0	7.1	7.1		
Unknown	0.0	0.0	0.1	0.0	0.1	0.1		
Primary Disease (%)*								
Glomerular Diseases	22.6	22.3	18.4	20.5	20.8	18.4		
Tubular and Interstitial Diseases	4.1	4.8	3.8	6.1	5.3	3.7		
Polycystic Kidneys	10.4	8.5	7.1	8.2	8.9	6.9		
Congenital, Familial, Metabolic	0.9	2.5	2.0	2.5	3.1	1.9		
Diabetes	34.3	31.9	34.7	37.1	32.9	36.9		
Renovascular & Vascular Disease	s 0.0	0.1	0.1	0.0	0.2	0.1		
Neoplasms	0.3	0.9	0.4	0.2	0.6	0.4		
Hypertensive Nephrosclerosis	13.8	15.9	20.2	13.0	16.9	20.7		
Other	13.5	12.9	12.8	12.1	11.1	10.7		
Missing*	0.0	0.1	0.4	0.3	0.2	0.4		

<sup>\*</sup> 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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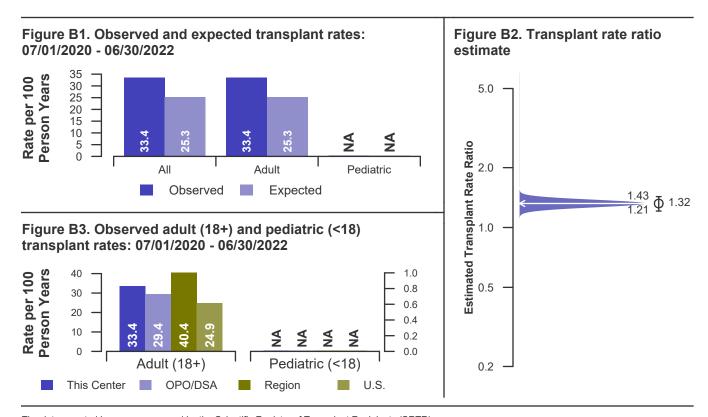
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Table B4. Transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	883	1,316	3,755	98,911
Person Years**	1,582.4	2,559.3	7,431.5	192,671.6
Removals for Transplant	529	779	3,051	48,952
Adult (18+) Candidates				
Count on waiting list at start*	883	1,300	3,680	97,259
Person Years**	1,582.4	2,513.5	7,240.7	189,305.8
Removals for transpant	529	740	2,924	47,119
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

<sup>\*</sup> 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.

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





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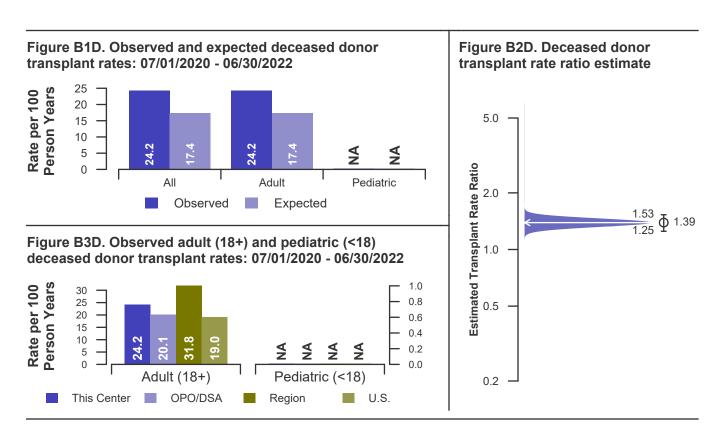
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Table B4D. Deceased donor transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	883	1,316	3,755	98,911
Person Years**	1,582.4	2,559.3	7,431.5	192,671.6
Removals for Transplant	383	528	2,376	37,313
Adult (18+) Candidates				
Count on waiting list at start*	883	1,300	3,680	97,259
Person Years**	1,582.4	2,513.5	7,240.7	189,305.8
Removals for transpant	383	506	2,301	36,003
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

<sup>\*</sup> 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.

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





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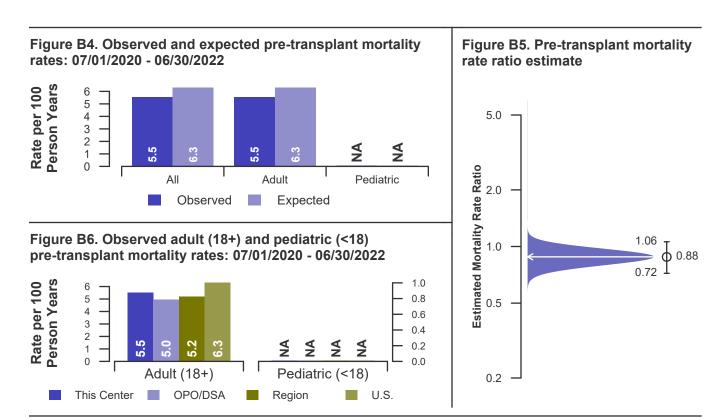
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Table B5. Pre-transplant mortality rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	883	1,316	3,755	98,911
Person Years**	1,738.5	2,815.9	8,053.1	207,100.8
Number of deaths	96	137	409	12,865
Adult (18+) Candidates				
Count on waiting list at start*	883	1,300	3,680	97,259
Person Years**	1,738.5	2,767.1	7,858.9	203,641.1
Number of deaths	96	137	409	12,819
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Number of deaths				

<sup>\*</sup> 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.

<sup>\*\*</sup> 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.





Center Code: COUC

Transplant Program (Organ): Kidney Release Date: January 5, 2023

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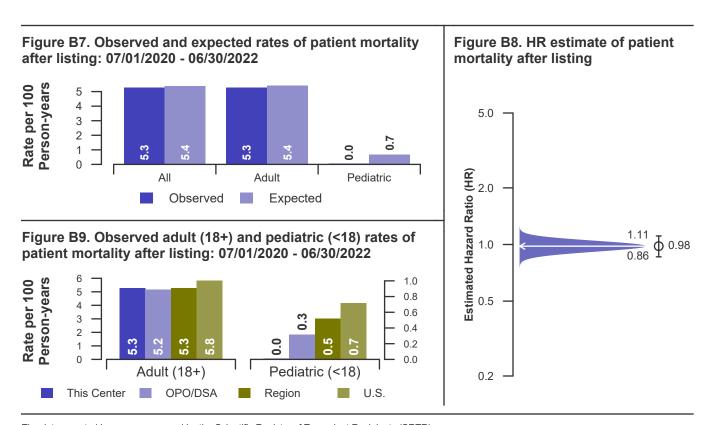
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Table B6. Rates of patient mortality after listing: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	2,749	4,552	16,369	308,733
Person-years*	4,244.1	6,814.2	24,413.5	456,501.7
Number of Deaths	224	337	1,242	25,813
Adult (18+) Patients				
Count at risk during the evaluation period	2,744	4,351	15,738	299,715
Person-years*	4,237.8	6,496.8	23,444.6	442,501.8
Number of Deaths	224	336	1,237	25,713
Pediatric (<18) Patients				
Count at risk during the evaluation period	5	201	631	9,018
Person-years*	6.3	317.4	968.9	13,999.8
Number of Deaths	0	1	5	100

<sup>\*</sup> 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.

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





Center Code: COUC
Transplant Program (Organ):

Transplant Program (Organ): Kidney Release Date: January 5, 2023

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

Waiting list status (survival status)		Center (Na ns Since L 12	,		6. (N=37,6 ns Since L 12	,
Alive on waiting list (%)	77.2	61.2	48.4	75.0	61.1	51.0
Died on the waiting list without transplant (%)	1.9	2.9	4.2	1.6	2.9	4.0
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.3	1.6	0.6	1.5	2.5
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.2	0.3
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.1
Other	0.6	1.3	3.5	0.7	1.4	2.5
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	5.4	12.5	11.2	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	0.3	0.0	0.0	0.0	0.0
Died	0.0	0.3	0.3	0.0	0.1	0.2
Status Yet Unknown**	0.0	0.0	4.8	0.1	0.4	3.8
Transplant (deceased donor) (%):						
Functioning (alive)	12.8	17.6	13.5	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	0.0	0.3	0.3	0.1	0.1	0.1
Died	0.6	0.6	1.0	0.4	8.0	1.3
Status Yet Unknown*	1.3	2.2	10.9	1.8	4.1	12.4
Lost or Transferred (status unknown) (%)	0.0	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	2.6	3.8	5.4	2.0	3.8	5.5
Total % known died or removed as unstable	2.6	4.2	7.1	2.6	5.3	8.0
Total % removed for transplant	20.2	34.0	42.0	21.8	32.3	38.9
Total % with known functioning transplant (alive)	18.3	30.1	24.7	19.4	26.8	21.1

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



Center Code: COUC Transplant Program (Organ): Kidney

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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

	Percent transplanted at time periods since listing									
Characteristic		Th	nis Cent	ter			Un	ited Sta	ates	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	869	4.1	17.0	23.4	31.2	99,014	4.5	19.1	26.6	32.4
Ethnicity/Race*										
White	434	3.0	14.1	20.7	28.8	38,757	4.5	19.8	27.4	33.3
African-American	104	3.8	19.2	22.1	29.8	30,664	4.9	19.7	27.3	33.2
Hispanic/Latino	239	6.3	21.3	28.5	36.0	19,262	4.7	18.8	25.7	31.6
Asian	52	3.8	15.4	21.2	28.8	8,454	2.6	13.4	20.7	26.6
Other	40	5.0	20.0	27.5	35.0	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	0					830	8.1	49.4	64.5	72.9
12-17 years	1	0.0	0.0	0.0	0.0	1,436	7.3	48.0	60.3	65.9
18-34 years	95	4.2	22.1	33.7	40.0	9,760	4.6	20.9	30.0	37.9
35-49 years	174	2.9	21.8	29.3	37.4	24,503	4.3	18.5	26.2	32.5
50-64 years	377	6.1	18.8	24.7	32.9	42,136	4.5	17.6	24.5	30.1
65-69 years	142	2.1	4.9	11.3	20.4	13,349	4.4	17.8	24.7	29.8
70+ years	80	1.2	13.8	13.8	18.8	6,884	4.4	20.0	26.8	31.4
Gender										
Male	542	4.6	18.1	24.5	30.8	61,328	4.7	18.4	25.5	31.1
Female	327	3.4	15.3	21.4	31.8	37,686	4.3	20.2	28.3	34.5

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



Center Code: COUC

Transplant Program (Organ): Kidney Release Date: January 5, 2023 Based on Data Available: October 31, 2022 Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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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			ercent t nis Cent	ransplar ter	ited at t	ime per		ice listir ited Sta	_	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	869	4.1	17.0	23.4	31.2	99,014	4.5	19.1	26.6	32.4
Blood Type										
Ο	420	2.9	13.1	17.9	23.1	49,345	4.2	16.5	22.8	28.1
A	306	6.5	20.6	28.1	38.2	30,856	5.4	22.6	31.7	38.5
В	111	0.9	17.1	23.4	35.1	15,097	3.0	16.3	23.3	28.8
AB	32	9.4	34.4	50.0	56.2	3,716	7.9	36.1	47.1	53.6
Previous Transplant										
Yes	117	5.1	23.1	31.6	36.8	13,227	3.0	18.8	27.0	32.9
No	752	4.0	16.1	22.1	30.3	85,787	4.8	19.1	26.5	32.4
Peak PRA/CPRA										
0-9%	773	4.0	15.7	22.0	29.5	77,957	4.8	18.5	25.6	31.5
10-79%	50	4.0	22.0	28.0	42.0	12,581	3.8	18.2	26.1	32.0
80+%	46	6.5	34.8	41.3	47.8	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	163	3.7	17.2	25.2	35.6	18,257	3.7	20.2	29.1	36.1
Tubular & Interstitial Diseases	52	1.9	11.5	19.2	23.1	3,841	5.4	21.5	28.5	34.6
Polycystic Kidneys	68	1.5	14.7	22.1	30.9	6,544	3.3	18.3	27.5	35.0
Congenital, Familial, Metabolic	19	5.3	15.8	26.3	31.6	1,928	5.9	30.7	41.0	49.2
Diabetes	343	2.3	14.6	19.5	27.7	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	3	0.0	33.3	33.3	33.3	342	8.8	26.9	35.4	39.2
Hypertensive Nephrosclerosis	95	8.4	20.0	25.3	33.7	20,175	4.9	19.8	27.7	34.1
Other	121	9.1	25.6	33.1	38.0	11,256	9.2	28.1	35.8	40.9
Missing*	4	0.0	0.0	0.0	0.0	336	1.8	8.6	14.9	20.8

<sup>\*</sup> 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 1	Transplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	1.2	1.4	0.6	0.7
10th	2.8	3.0	1.6	2
25th	7.6	8.4	5.7	8.2
50th (median time to transplant)	30.2	33.7	20.1	34.4
75th	Not Observed	Not Observed	Not Observed	Not Observed

<sup>\*</sup> 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.

<sup>\*\*</sup> 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.



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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	13,298	20,331	87,394	2,870,054
Number of Acceptances	178	253	1,059	17,367
Expected Acceptances	183.5	351.2	999.9	17,348.8
Offer Acceptance Ratio*	0.97	0.72	1.06	1.00
95% Credible Interval**	[0.83, 1.12]			
Low-KDRI Donors (KDRI < 1.05)				
Number of Offers	1,742	2,894	14,486	344,510
Number of Acceptances	77	125	357	5,712
Expected Acceptances	85.1	150.8	379.1	5,696.5
Offer Acceptance Ratio*	0.91	0.83	0.94	1.00
95% Credible Interval**	[0.72, 1.12]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)				
Number of Offers	10,295	15,621	61,455	2,002,947
Number of Acceptances	93	120	571	9,758
Expected Acceptances	89.9	187.0	542.9	9,757.8
Offer Acceptance Ratio*	1.03	0.65	1.05	1.00
95% Credible Interval**	[0.84, 1.25]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	1,261	1,816	11,453	522,597
Number of Acceptances	8	8	131	1,897
Expected Acceptances	8.4	13.5	77.9	1,894.5
Offer Acceptance Ratio*	0.96	0.65	1.66	1.00
95% Credible Interval**	[0.46, 1.64]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	10,158	14,808	70,400	2,487,183
Number of Acceptances	3	3	105	3,182
Expected Acceptances	15.0	22.4	117.1	3,212.4
Offer Acceptance Ratio*	0.29	0.20	0.90	0.99
95% Credible Interval**	[0.10, 0.60]			

<sup>\*</sup> The offer acceptance ratio estimates the relative offer acceptance practice of University of Colorado Hospital/Health Science Center 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 compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a 25% less likely to accept an offer).

\*\* As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.83, 1.12], indicates the location of COUC's true offer acceptance ratio with 95% probability. The best estimate is 3% less likely to accept an offer compared to nationalacceptance behavior, but COUC's performance could plausibly range from 17% reduced acceptance up to 12% higher acceptance.



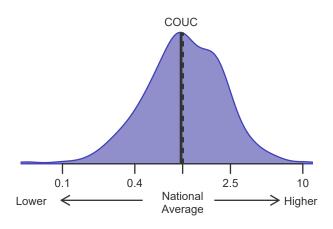
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Figure B10. Offer acceptance: Overall

Figure B11. Offer acceptance: Low-KDRI



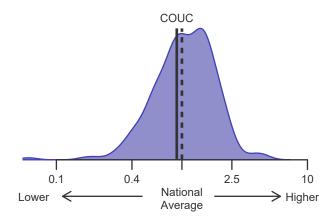
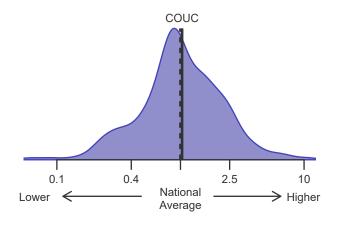


Figure B12. Offer acceptance: Medium-KDRI

Figure B13. Offer acceptance: High-KDRI



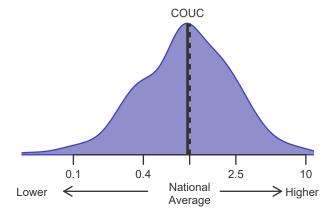
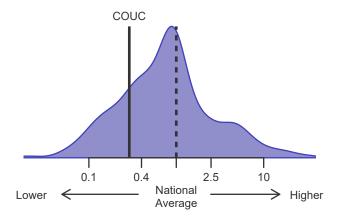


Figure B14. Offer acceptance: Offer number > 100





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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

	Percentage in each category		
Characteristic	Center (N=187)	Region (N=1,121)	U.S. (N=18,602)
Ethnicity/Race (%)*			
White	45.5	56.5	35.2
African-American	11.2	23.3	33.6
Hispanic/Latino	34.2	12.8	20.9
Asian	7.0	5.3	8.5
Other	2.1	2.1	1.7
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	0.0
2-11 years	0.0	1.0	1.1
12-17	0.0	1.6	1.6
18-34	12.3	10.0	10.3
35-49 years	27.8	20.9	24.0
50-64 years	39.0	36.5	40.1
65-69 years	13.4	14.6	13.0
70+ years	7.5	15.4	9.8
Gender (%)			
Male	63.1	60.5	60.7
Female	36.9	39.5	39.3

<sup>\*</sup> 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=78)	Region (N=366)	U.S. (N=5,871)	
Ethnicity/Race (%)*				
White	70.5	78.1	61.4	
African-American	2.6	7.4	13.5	
Hispanic/Latino	20.5	11.5	16.9	
Asian	5.1	1.9	6.8	
Other	1.3	1.1	1.4	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.8	0.3	
2-11 years	0.0	3.8	1.8	
12-17	0.0	1.9	1.6	
18-34	20.5	19.1	15.7	
35-49 years	30.8	27.0	26.3	
50-64 years	29.5	25.1	34.3	
65-69 years	10.3	11.2	10.7	
70+ years	9.0	10.9	9.4	
Gender (%)				
Male	65.4	66.1	62.2	
Female	34.6	33.9	37.8	

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



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# **C. Transplant Information**

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

	Percentage in each category		
Characteristic	Center (N=187)	Region (N=1,121)	U.S. (N=18,602)
Blood Type (%)			
0	49.7	43.8	46.6
A	32.6	38.3	34.2
В	12.8	12.6	14.7
AB	4.8	5.4	4.5
Previous Transplant (%)			
Yes	9.6	12.4	12.8
No	90.4	87.6	87.2
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	80.2	65.3	59.8
10-79%	11.2	21.0	22.3
80+ %	8.6	13.7	17.9
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	7.0	6.7	9.1
21-25	28.3	25.4	27.0
26-30	40.6	31.0	30.9
31-35	19.3	23.4	20.9
36-40	4.3	11.3	8.4
41+	0.5	1.8	1.5
Unknown	0.0	0.4	2.1
Primary Disease (%)*			
Glomerular Diseases	23.0	23.3	20.8
Tubular and Interstitial Disease	3.7	4.2	3.8
Polycystic Kidneys	8.0	8.5	6.7
Congenital, Familial, Metabolic	1.6	2.9	2.6
Diabetes	31.0	30.4	29.8
Renovascular & Vascular Diseases	0.0	0.0	0.1
Neoplasms	0.5	1.0	0.4
Hypertensive Nephrosclerosis	11.8	16.4	23.4
Other Kidney	20.3	13.2	12.0
Missing*	0.0	0.1	0.3

<sup>\*</sup> 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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# C. Transplant Information

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

	Percentage in each category		
Characteristic	Center (N=78)	Region (N=366)	U.S. (N=5,871)
Blood Type (%)			
0	48.7	46.2	43.5
A	34.6	37.2	37.6
В	12.8	12.6	14.0
AB	3.8	4.1	4.8
Previous Transplant (%)			
Yes	7.7	10.1	9.7
No	92.3	89.9	90.3
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	88.5	81.7	73.8
10-79%	11.5	15.6	21.8
80+ %	0.0	2.7	4.3
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	10.3	14.8	12.3
21-25	28.2	28.4	29.4
26-30	34.6	29.0	29.1
31-35	17.9	18.9	20.6
36-40	5.1	7.1	6.5
41+	3.8	1.6	1.1
Unknown	0.0	0.3	0.9
Primary Disease (%)*			
Glomerular Diseases	30.8	30.9	29.1
Tubular and Interstitial Disease	2.6	4.4	4.4
Polycystic Kidneys	15.4	12.6	11.8
Congenital, Familial, Metabolic	1.3	6.8	3.7
Diabetes	29.5	19.1	24.1
Renovascular & Vascular Diseases	0.0	0.0	0.2
Neoplasms	1.3	0.8	0.6
Hypertensive Nephrosclerosis	11.5	13.4	16.1
Other Kidney	7.7	11.5	9.6
Missing*	0.0	0.5	0.4

<sup>\*</sup> 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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# **C. Transplant Information**

# Table C3D. Deceased donor characteristics Transplants performed between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Donor Characteristic	Center (N=187)	Region (N=1,121)	U.S. (N=18,602)	
Cause of Death (%)				
Deceased: Stroke	25.7	22.2	21.1	
Deceased: MVA	10.2	11.4	13.7	
Deceased: Other	64.2	66.4	65.2	
Ethnicity/Race (%)*				
White	82.4	79.9	66.5	
African-American	1.6	10.0	13.9	
Hispanic/Latino	12.3	7.4	15.7	
Asian	2.1	1.6	2.5	
Other	1.6	1.1	1.4	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.2	8.0	
2-11 years	1.6	2.5	2.4	
12-17	4.8	4.5	3.8	
18-34	38.0	29.8	31.1	
35-49 years	29.9	32.6	34.9	
50-64 years	23.0	26.7	24.6	
65-69 years	2.1	3.0	2.1	
70+ years	0.5	0.7	0.3	
Gender (%)				
Male	67.4	63.7	64.7	
Female	32.6	36.3	35.3	
Blood Type (%)				
0	50.8	45.1	48.4	
A	35.3	40.9	36.7	
В	11.2	10.6	11.5	
AB	2.7	3.4	3.3	
Unknown	0.0	0.0	0.0	

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



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# C. Transplant Information

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

	Percei	Percentage in each category		
Oonor Characteristic	Center	Region	U.S.	
	(N=78)	(N=366)	(N=5,871)	
Ethnicity/Race (%)*				
White	80.8	86.9	69.4	
African-American	2.6	3.6	8.3	
Hispanic/Latino	15.4	7.7	15.8	
Asian	1.3	1.1	4.7	
Other	0.0	0.8	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	32.1	30.6	26.3	
35-49 years	30.8	40.2	39.4	
50-64 years	32.1	25.4	28.5	
65-69 years	5.1	3.6	4.4	
70+ years	0.0	0.3	1.3	
Gender (%)				
Male	42.3	39.1	36.3	
Female	57.7	60.9	63.7	
Blood Type (%)				
0	66.7	65.0	61.0	
A	26.9	28.1	27.9	
В	5.1	5.5	9.2	
AB	1.3	1.4	1.9	
Unknown	0.0	0.0	0.0	

<sup>\*</sup> 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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Percentage in each category

# **C. Transplant Information**

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

	Percentage in each category		
Transplant Characteristic	Center	Region	U.S.
	(N=187)	(N=1,121)	(N=18,602)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-11 hr	33.5	29.2	22.1
Deceased: 12-21 hr	55.1	51.1	50.9
Deceased: 22-31 hr	11.4	18.5	22.8
Deceased: 32-41 hr	0.0	0.7	2.7
Deceased: 42+ hr	0.0	0.0	0.5
Not Reported	0.0	0.4	1.0
Cold Ischemic Time (Hours): Shared (%)	0.0	0.4	1.0
Deceased: 0-11 hr	18.2	13.6	9.6
Deceased: 0-111111 Deceased: 12-21 hr	63.6	49.4	48.2
Deceased: 12-21111 Deceased: 22-31 hr	9.1	32.2	33.1
Deceased: 32-41 hr	9.1	3.5	6.7
Deceased: 42+ hr	0.0	0.5	1.3
Not Reported	0.0	0.7	1.1
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	9.6	11.7	11.1
1	40.6	40.3	39.3
2	49.7	48.0	49.5
Not Reported	0.0	0.0	0.1
B Locus Mismatches (%)			
0	5.9	6.7	6.9
1	25.7	26.9	24.9
2	68.4	66.4	68.1
Not Reported	0.0	0.0	0.1
DR Locus Mismatches (%)			
0	14.4	16.6	17.0
1	53.5	51.3	47.7
2	32.1	32.1	35.2
Not Reported	0.0	0.0	0.1
Total Mismatches (%)			
0	1.6	3.4	4.5
1	1.6	1.7	1.1
2	9.1	6.4	4.7
3	12.8	14.7	14.3
4	27.8	28.7	27.6
5	31.6	32.4	32.8
6	15.5	12.7	15.0
Not Reported	0.0	0.0	0.1
Procedure Type (%)	05.7	04.7	00.0
Single organ	95.7	94.7	93.8
Multi organ	4.3	5.3	6.2
Dialysis in First Week After Transplant (%)	22.5	00.7	04.4
Yes	22.5	22.7	31.4
No	77.5	77.3	68.2
Not Reported	0.0	0.0	0.3
Donor Location (%)			
Local Donation Service Area (DSA)	94.1	62.1	40.8
Another Donation Service Area (DSA)	5.9	37.9	59.2
Median Time in Hospital After Transplant	3.0 Days	5.0 Days	5.0 Days
	o.o Dayo	J.J Days	J.J Dayo



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# **C. Transplant Information**

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

	Percentage in each category		
Transplant Characteristic	Center (N=78)	Region (N=366)	U.S. (N=5,871)
Relation with Donor (%)			
Related	29.5	36.9	39.0
Unrelated	69.2	62.8	60.2
Not Reported	1.3	0.3	0.8
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	12.8	15.8	15.8
1	52.6	48.6	48.0
2	34.6	26.8	32.0
Not Reported	0.0	8.7	4.2
B Locus Mismatches (%)			
0	7.7	6.6	9.1
1	35.9	41.8	41.3
2	56.4	42.9	45.4
Not Reported	0.0	8.7	4.2
DR Locus Mismatches (%)			
0	11.5	15.6	14.6
1	50.0	44.5	47.1
2	38.5	31.1	34.1
Not Reported	0.0	8.7	4.2
Total Mismatches (%)			
0	2.6	3.0	4.4
1	2.6	2.7	3.4
2	12.8	16.9	11.8
3	20.5	16.7	22.0
4	19.2	19.4	17.9
5	23.1	22.7	23.1
6	19.2	9.8	13.2
Not Reported	0.0	8.7	4.2
Procedure Type (%)			
Single organ	98.7	99.7	100.0
Multi organ	1.3	0.3	0.0
Dialysis in First Week After Transplant (%)			
Yes	1.3	1.6	2.6
No	98.7	98.4	96.9
Not Reported	0.0	0.0	0.5
Median Time in Hospital After Transplant	3.0 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

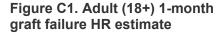
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

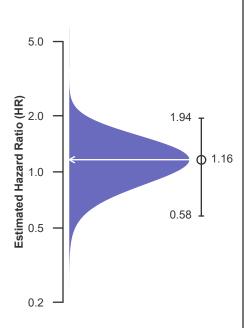
	COUC	U.S.
Number of transplants evaluated	581	50,453
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.43%	98.49%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.69%	
Number of observed graft failures (including deaths) during the first month after transplant	9	752
Number of expected graft failures (including deaths) during the first month after transplant	7.47	
Estimated hazard ratio*	1.16	
95% credible interval for the hazard ratio**	[0.58, 1.94]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

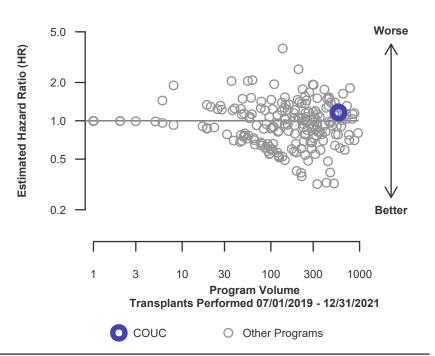
\*\* The 95% credible interval, [0.58, 1.94], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 16% higher risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 42% reduced risk up to 94% increased risk.





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





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# C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

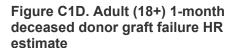
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

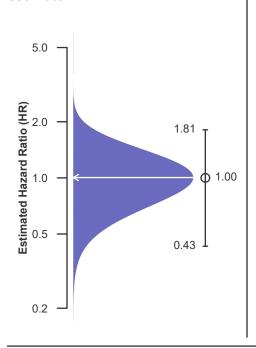
	couc	U.S.
Number of transplants evaluated	383	37,045
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.42%	98.24%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.41%	
Number of observed graft failures (including deaths) during the first month after transplant	6	644
Number of expected graft failures (including deaths) during the first month after transplant	5.97	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.43, 1.81]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

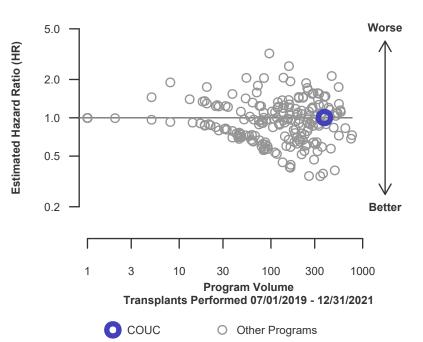
\*\* The 95% credible interval, [0.43, 1.81], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 0% higher risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 57% reduced risk up to 81% increased risk.





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





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# C. Transplant Information

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

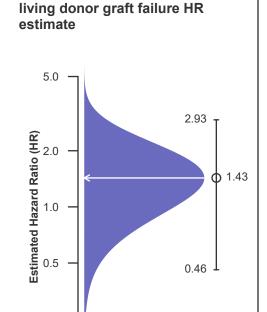
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	COUC	U.S.
Number of transplants evaluated	198	13,408
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.47%	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	3	108
Number of expected graft failures (including deaths) during the first month after transplant	1.50	
Estimated hazard ratio*	1.43	
95% credible interval for the hazard ratio**	[0.46, 2.93]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

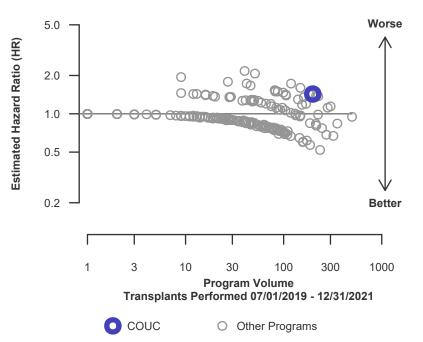
\*\* The 95% credible interval, [0.46, 2.93], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 43% higher risk



0.2

Figure C1L. Adult (18+) 1-month





of graft failure compared to an average program, but COUC's performance could plausibly range from 54% reduced risk up to 193% increased risk.



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# C. Transplant Information

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

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

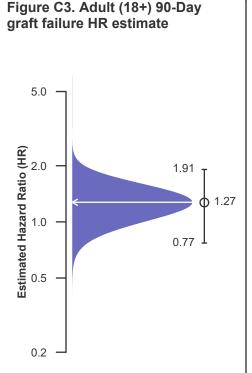
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

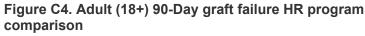
	COUC	U.S.
Number of transplants evaluated	581	50,453
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	96.91%	97.23%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.63%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	17	1,336
Number of expected graft failures (including deaths) during the first 90 days after transplant	12.92	
Estimated hazard ratio*	1.27	
95% credible interval for the hazard ratio**	[0.77, 1.91]	

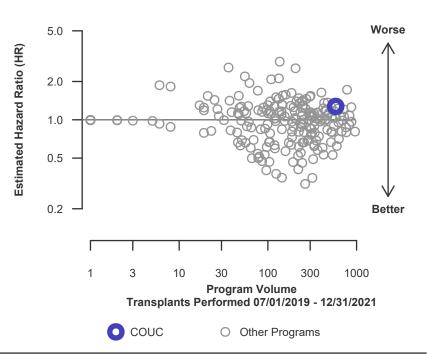
<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard 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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.77, 1.91], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 27% higher risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 23% reduced risk up to 91% 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

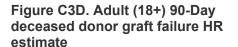
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

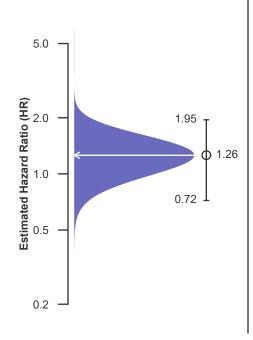
	COUC	U.S.
Number of transplants evaluated	383	37,045
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	96.08%	96.68%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.99%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	14	1,178
Number of expected graft failures (including deaths) during the first 90 days after transplant	10.72	
Estimated hazard ratio*	1.26	
95% credible interval for the hazard ratio**	[0.72, 1.95]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

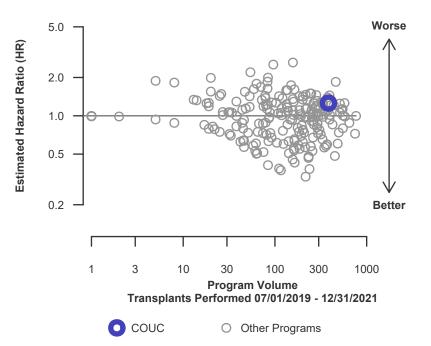
\*\* The 95% credible interval, [0.72, 1.95], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 26% higher risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 28% reduced risk up to 95% increased risk.





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





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# C. Transplant Information

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

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

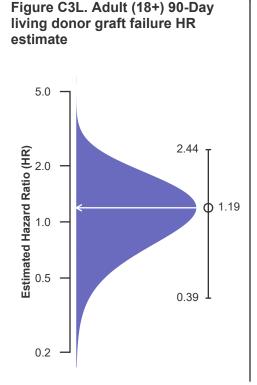
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COUC	U.S.
Number of transplants evaluated	198	13,408
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	98.47%	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	3	158
Number of expected graft failures (including deaths) during the first 90 days after transplant	2.20	
Estimated hazard ratio*	1.19	
95% credible interval for the hazard ratio**	[0.39, 2.44]	

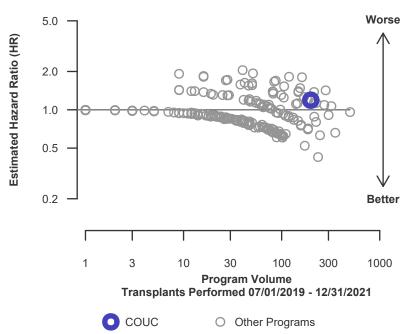
<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard 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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.39, 2.44], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 19% higher risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 61% reduced risk up to 144% increased risk.









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# C. Transplant Information

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

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

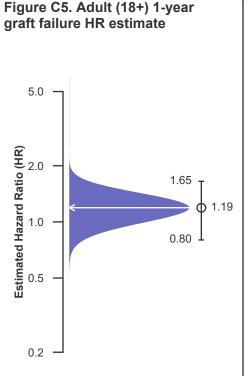
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

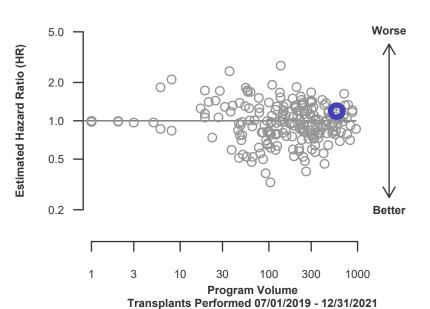
	COUC	U.S.
Number of transplants evaluated	581	50,453
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	94.22%	93.85%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.73%	
Number of observed graft failures (including deaths) during the first year after transplant	28	2,380
Number of expected graft failures (including deaths) during the first year after transplant	23.19	
Estimated hazard ratio*	1.19	
95% credible interval for the hazard ratio**	[0.80, 1.65]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.80, 1.65], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 19% higher risk

comparison





O Other Programs

COUC

Figure C6. Adult (18+) 1-year graft failure HR program

of graft failure compared to an average program, but COUC's performance could plausibly range from 20% reduced risk up to 65% 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

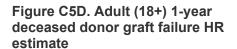
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

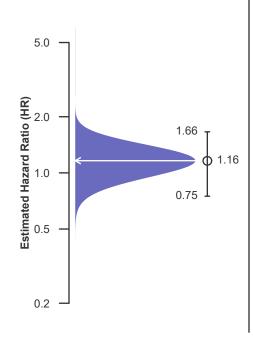
	COUC	U.S.
Number of transplants evaluated	383	37,045
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	92.74%	92.61%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.28%	
Number of observed graft failures (including deaths) during the first year after transplant	23	2,110
Number of expected graft failures (including deaths) during the first year after transplant	19.51	
Estimated hazard ratio*	1.16	
95% credible interval for the hazard ratio**	[0.75, 1.66]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

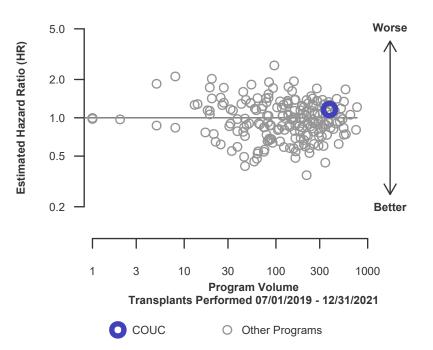
\*\* The 95% credible interval, [0.75, 1.66], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 16% higher risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 25% reduced risk up to 66% increased risk.





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





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### C. Transplant Information

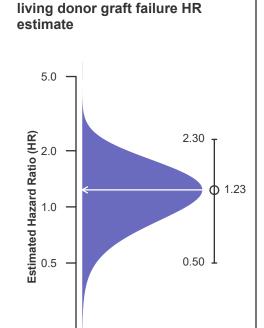
Table C7L. Adult (18+) 1-year survival with a functioning living donor graft

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

	COUC	U.S.
Number of transplants evaluated	198	13,408
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	97.31%	97.39%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.53%	
Number of observed graft failures (including deaths) during the first year after transplant	5	270
Number of expected graft failures (including deaths) during the first year after transplant	3.68	
Estimated hazard ratio*	1.23	
95% credible interval for the hazard ratio**	[0.50, 2.30]	

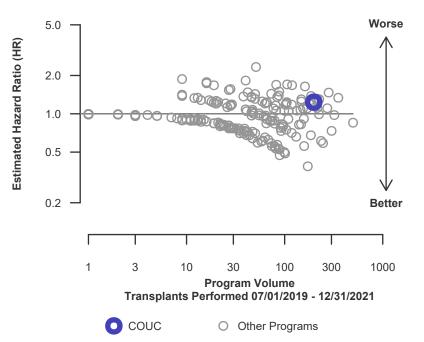
<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard 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 COLIC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0



0.2

Figure C5L. Adult (18+) 1-year





indicate 25% lower risk). If COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.50, 2.30], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 23% higher risk of graft failure compared to an average program, but COUC's performance could plausibly range from 50% reduced risk up to 130% increased risk.



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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

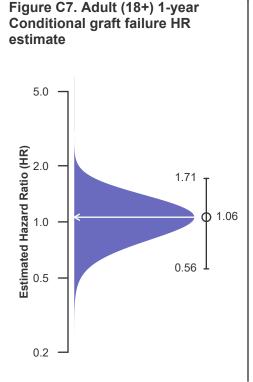
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COUC	U.S.
Number of transplants evaluated	498	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)	97.22%	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)	97.03%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	11	1,044
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	10.27	
Estimated hazard ratio*	1.06	
95% credible interval for the hazard ratio**	[0.56, 1.71]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.56, 1.71], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 6% higher risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 44% reduced risk up to 71% increased risk.



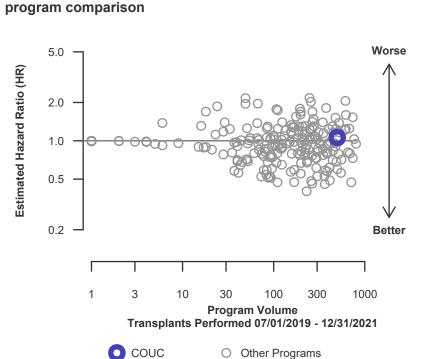


Figure C8. Adult (18+) 1-year Conditional graft failure HR



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### C. Transplant Information

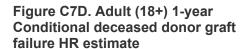
Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

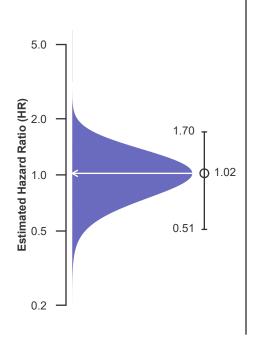
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COUC	U.S.
Number of transplants evaluated	322	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)	96.17%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	9	932
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	8.80	
Estimated hazard ratio*	1.02	
95% credible interval for the hazard ratio**	[0.51, 1.70]	

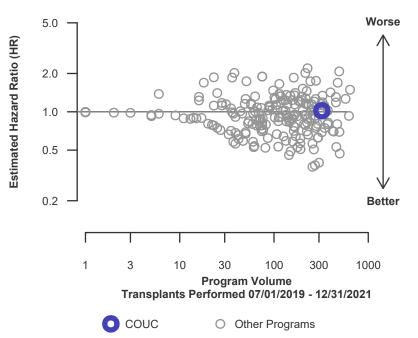
<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard 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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.51, 1.70], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 2% higher risk of graft failure compared to an average program, but COUC's performance could plausibly range from 49% reduced risk up to 70% increased risk.





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





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### C. Transplant Information

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2019 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

	COUC	U.S.
Number of transplants evaluated	176	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	2	112
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	1.47	
Estimated hazard ratio*	1.15	
95% credible interval for the hazard ratio**	[0.31, 2.52]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.31, 2.52], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 15% higher risk

failure HR program comparison

3

COUC

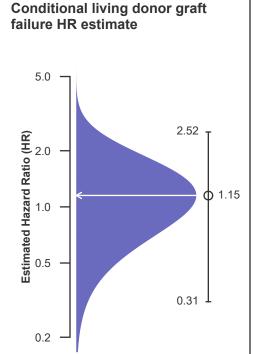
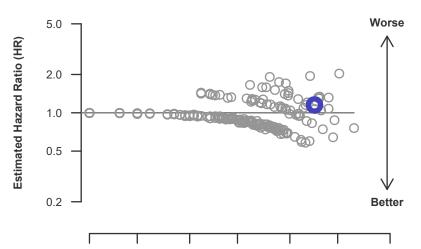


Figure C7L. Adult (18+) 1-year



10

30

**Program Volume** Transplants Performed 07/01/2019 - 12/31/2021

O Other Programs

100

300

Figure C8L. Adult (18+) 1-year Conditional living donor graft

1000

of graft failure compared to an average program, but COUC's performance could plausibly range from 69% reduced risk up to 152% increased risk.



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### C. Transplant Information

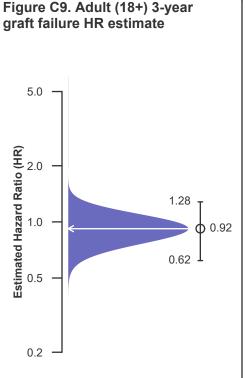
Table C9. Adult (18+) 3-year survival with a functioning graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COUC	U.S.
Number of transplants evaluated	599	48,027
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	93.61%	90.55%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.38%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	28	3,167
Number of expected graft failures (including deaths) during the first 3 years after transplant	30.64	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.62, 1.28]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.62, 1.28], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 8% lower risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 38% reduced risk up to 28% increased risk.



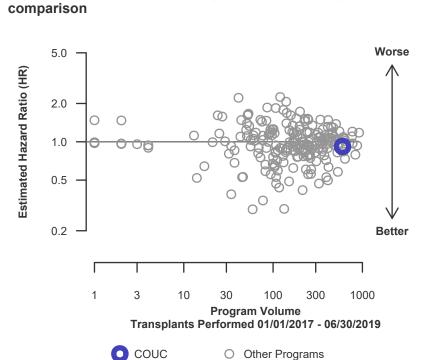


Figure C10. Adult (18+) 3-year graft failure HR program



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### C. Transplant Information

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

Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

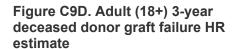
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

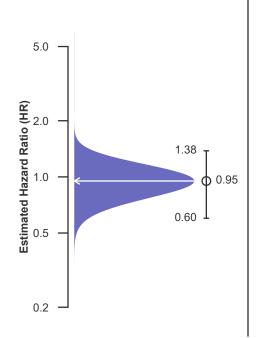
	COUC	U.S.
Number of transplants evaluated	328	33,066
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	91.13%	88.67%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.18%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	21	2,675
Number of expected graft failures (including deaths) during the first 3 years after transplant	22.20	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.60, 1.38]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

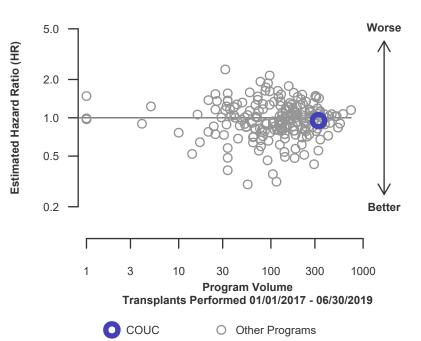
\*\* The 95% credible interval, [0.60, 1.38], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 5% lower risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 40% reduced risk up to 38% increased risk.





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





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### C. Transplant Information

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

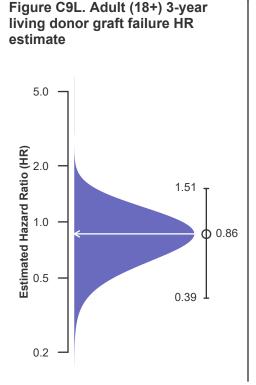
Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

	COUC	U.S.
Number of transplants evaluated	271	14,961
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	96.68%	94.76%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.04%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	7	492
Number of expected graft failures (including deaths) during the first 3 years after transplant	8.44	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.39, 1.51]	

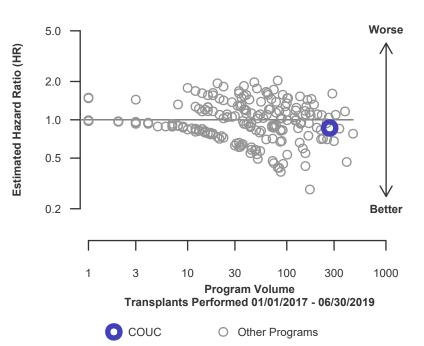
<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard 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 COUC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.39, 1.51], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 14% lower risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 61% reduced risk up to 51% increased risk.









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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

## Figure C11. Pediatric (<18) 1-month graft failure HR estimate

Figure C12. Pediatric (<18) 1-month graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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### C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C11D. Pediatric (<18)
1-month deceased donor graft failure HR estimate

Figure C12D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C11L. Pediatric (<18)
1-month living donor graft failure
HR estimate

Figure C12L. Pediatric (<18) 1-month living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C13. Pediatric (<18) 90-Day graft failure HR estimate

Figure C14. Pediatric (<18) 90-Day graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C13D. Pediatric (<18) 90-Day deceased donor graft failure HR estimate

Figure C14D. Pediatric (<18) 90-Day deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C13L. Pediatric (<18)
90-Day living donor graft failure
HR estimate

Figure C14L. Pediatric (<18) 90-Day living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C15. Pediatric (<18) 1-year graft failure HR estimate

Figure C16. Pediatric (<18) 1-year graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C15D. Pediatric (<18) 1-year deceased donor graft failure HR estimate Figure C16D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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### C. Transplant Information

Table C12L. Pediatric (<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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C15L. Pediatric (<18)
1-year living donor graft failure
HR estimate

Figure C16L. Pediatric (<18) 1-year living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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### C. Transplant Information

Table C13. Pediatric (<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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C17. Pediatric (<18) 1-year Conditional graft failure HR estimate

Figure C18. Pediatric (<18) 1-year Conditional graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C17D. Pediatric (<18)
1-year Conditional deceased donor graft failure HR estimate

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

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C17L. Pediatric (<18)
1-year Conditional living donor graft failure HR estimate

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

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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### C. Transplant Information

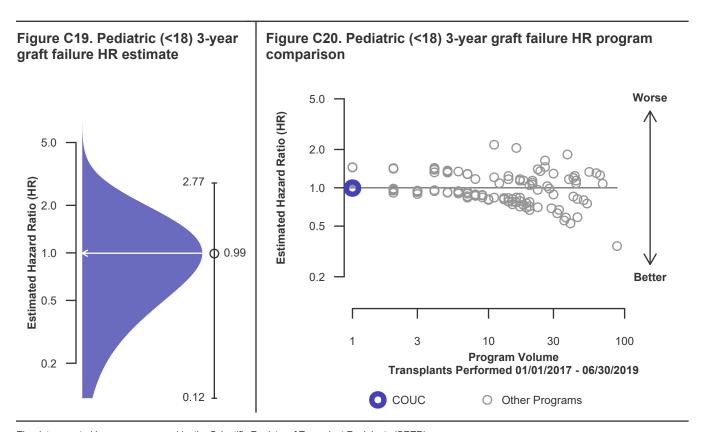
Table C14. Pediatric (<18) 3-year survival with a functioning graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COUC	U.S.
Number of transplants evaluated	1	2,081
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	94.51%
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	77
Number of expected graft failures (including 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]	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure 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 COUC's true hazard ratio with 95% probability. The best estimate is 1% lower risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 88% reduced risk up to 177% increased risk.





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### C. Transplant Information

Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2017 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

This center did not perform any transplants relevant to this table during 01/01/2017-06/30/2019

Figure C19D. Pediatric (<18) 3-year deceased donor graft failure HR estimate

Figure C20D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2017-06/30/2019



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### C. Transplant Information

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

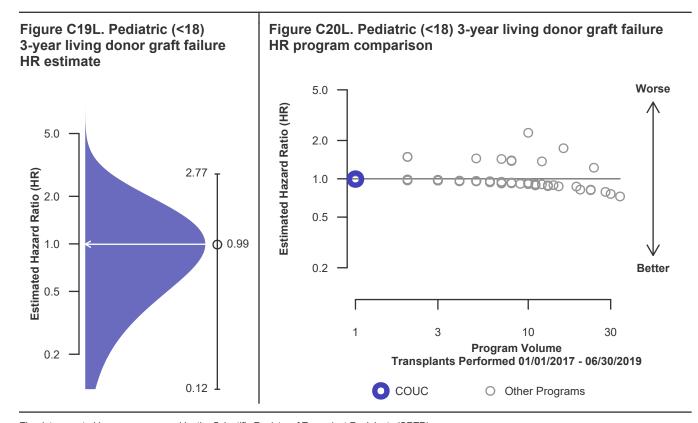
Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

	COUC	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	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's graft failure 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 COUC's true hazard ratio with 95% probability. The best estimate is 1% lower risk

of graft failure compared to an average program, but COUC's performance could plausibly range from 88% reduced risk up to 177% increased risk.





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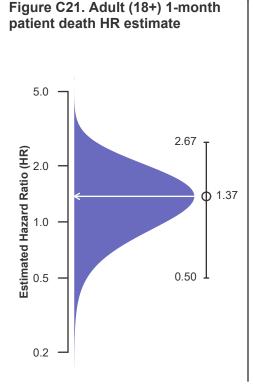
### **C. Transplant Information**

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

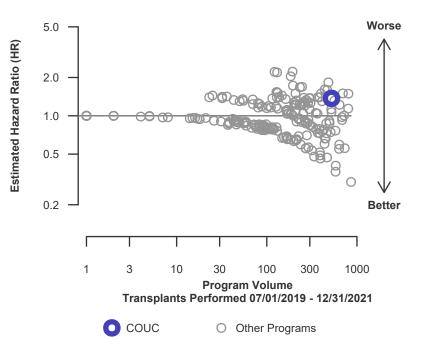
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

	COUC	U.S.
Number of transplants evaluated	522	45,066
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.23%	99.46%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.53%	
Number of observed deaths during the first month after transplant	4	241
Number of expected deaths during the first month after transplant	2.38	
Estimated hazard ratio*	1.37	
95% credible interval for the hazard ratio**	[0.50, 2.67]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







<sup>\*\*</sup> The 95% credible interval, [0.50, 2.67], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 37% higher risk of patient death compared to an average program, but COUC's performance could plausibly range from 50% reduced risk up to 167% increased risk.



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### C. Transplant Information

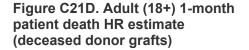
Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

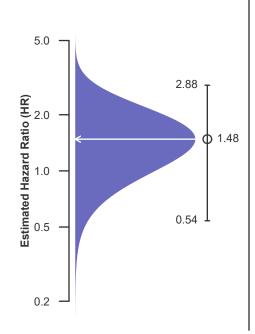
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

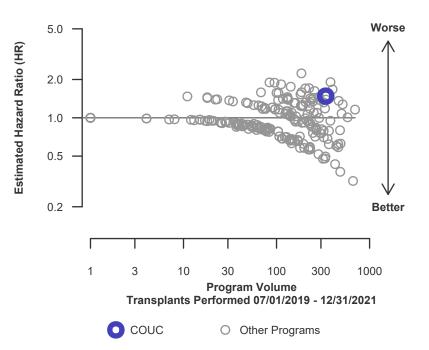
	COUC	U.S.
Number of transplants evaluated	338	32,831
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	98.81%	99.33%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.37%	
Number of observed deaths during the first month after transplant	4	217
Number of expected deaths during the first month after transplant	2.06	
Estimated hazard ratio*	1.48	
95% credible interval for the hazard ratio**	[0.54, 2.88]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.





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



<sup>\*\*</sup> The 95% credible interval, [0.54, 2.88], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 48% higher risk of patient death compared to an average program, but COUC's performance could plausibly range from 46% reduced risk up to 188% increased risk.



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### C. Transplant Information

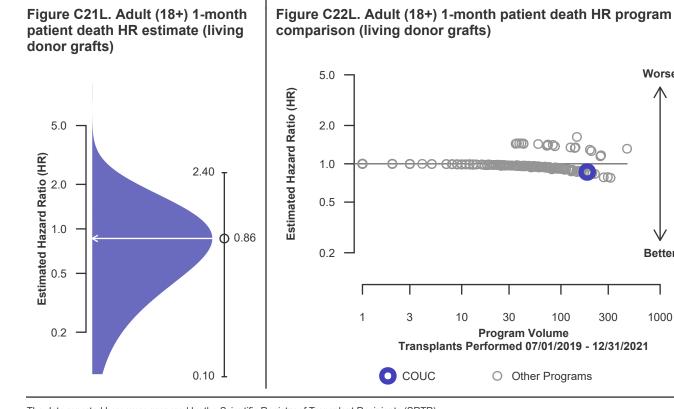
Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)

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

	couc	U.S.
Number of transplants evaluated	184	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	0.32	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.10, 2.40]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



Worse

**Better** 

1000

300

<sup>\*\*</sup> The 95% credible interval, [0.10, 2.40], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 14% lower risk of patient death compared to an average program, but COUC's performance could plausibly range from 90% reduced risk up to 140% increased risk.



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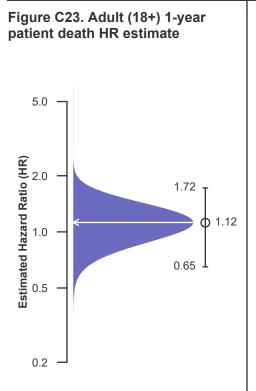
### **C. Transplant Information**

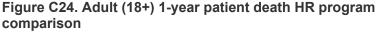
Table C16. Adult (18+) 1-year patient survival

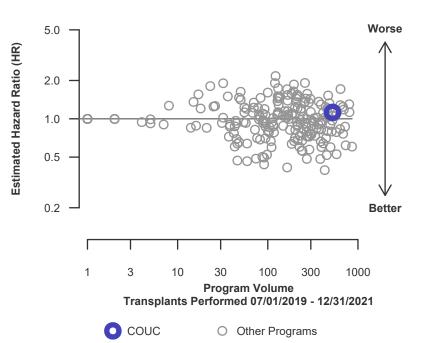
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

	COUC	U.S.
Number of transplants evaluated	522	45,066
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	96.28%	95.89%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.43%	
Number of observed deaths during the first year after transplant	15	1,307
Number of expected deaths during the first year after transplant	13.14	
Estimated hazard ratio*	1.12	
95% credible interval for the hazard ratio**	[0.65, 1.72]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







indicate 25% lower risk). If COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.65, 1.72], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 12% higher risk of patient death compared to an average program, but COUC's performance could plausibly range from 35% reduced risk up to 72% increased risk.



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### C. Transplant Information

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

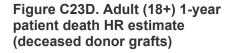
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

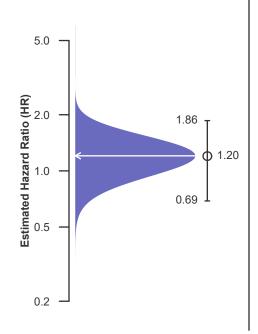
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	COUC	U.S.
Number of transplants evaluated	338	32,831
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	94.76%	95.03%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.32%	
Number of observed deaths during the first year after transplant	14	1,165
Number of expected deaths during the first year after transplant	11.29	
Estimated hazard ratio*	1.20	
95% credible interval for the hazard ratio**	[0.69, 1.86]	

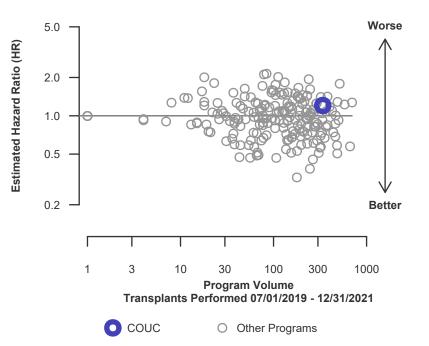
<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard 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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.69, 1.86], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 20% higher risk





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



of patient death compared to an average program, but COUC's performance could plausibly range from 31% reduced risk up to 86% increased risk.



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### C. Transplant Information

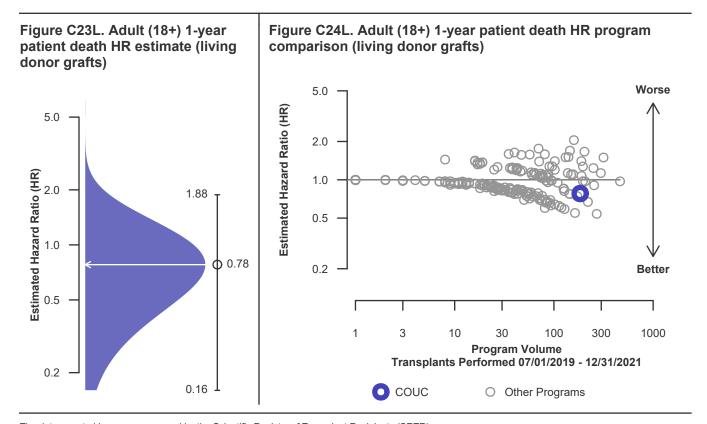
### Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)

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

	COUC	U.S.
Number of transplants evaluated	184	12,235
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	99.38%	98.31%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	98.47%	
Number of observed deaths during the first year after transplant	1	142
Number of expected deaths during the first year after transplant	1.85	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.16, 1.88]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.16, 1.88], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 22% lower risk of patient death compared to an average program, but COUC's performance could plausibly range from 84% reduced risk up to 88% increased risk.





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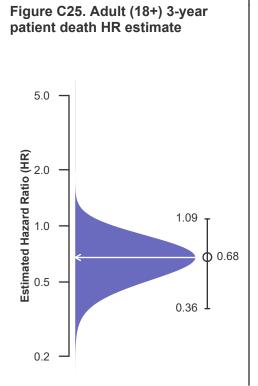
### **C. Transplant Information**

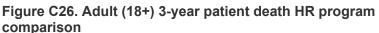
Table C17. Adult (18+) 3-year patient survival

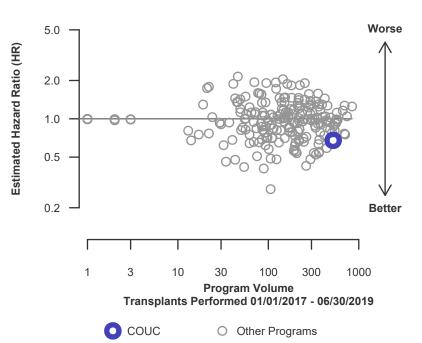
Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

	COUC	U.S.
Number of transplants evaluated	521	42,494
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	95.81%	94.47%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	95.13%	
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	17.21	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.36, 1.09]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







indicate 25% lower risk). If COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.36, 1.09], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 32% lower risk of patient death compared to an average program, but COUC's performance could plausibly range from 64% reduced risk up to 9% increased risk.



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### **C. Transplant Information**

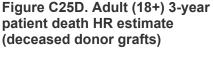
Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

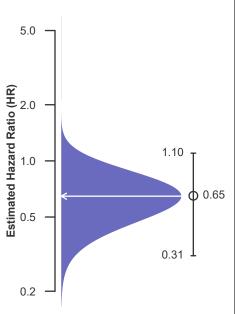
Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

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

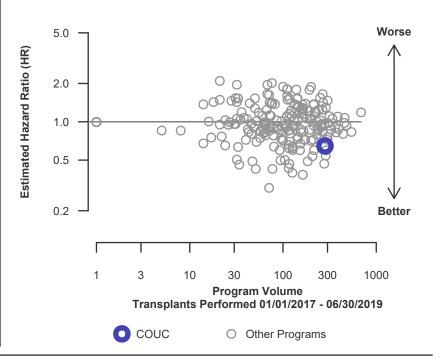
	COUC	U.S.
Number of transplants evaluated	282	28,971
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	93.89%	93.22%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.30%	
Number of observed deaths during the first 3 years after transplant	8	1,385
Number of expected deaths during the first 3 years after transplant	13.47	
Estimated hazard ratio*	0.65	
95% credible interval for the hazard ratio**	[0.31, 1.10]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.





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



<sup>\*\*</sup> The 95% credible interval, [0.31, 1.10], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 35% lower risk of patient death compared to an average program, but COUC's performance could plausibly range from 69% reduced risk up to 10% increased risk.



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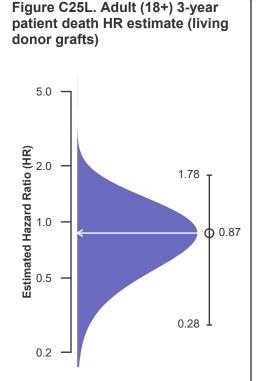
### C. Transplant Information

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

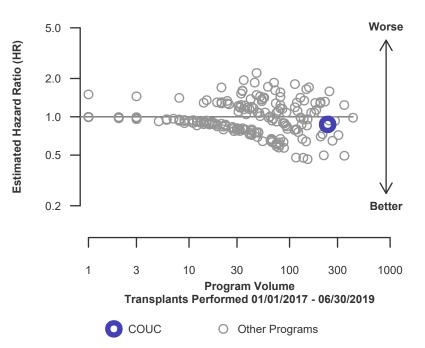
Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

	COUC	U.S.
Number of transplants evaluated	239	13,523
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	98.51%	97.13%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	97.30%	
Number of observed deaths during the first 3 years after transplant	3	226
Number of expected deaths during the first 3 years after transplant	3.74	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.28, 1.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







<sup>\*\*</sup> The 95% credible interval, [0.28, 1.78], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 13% lower risk of patient death compared to an average program, but COUC's performance could plausibly range from 72% reduced risk up to 78% 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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C27. Pediatric (<18) 1-month patient death HR estimate Figure C28. Pediatric (<18) 1-month patient death HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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### C. Transplant Information

Table C18D. Pediatric (<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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C27D. Pediatric (<18)
1-month patient death HR
estimate (deceased donor grafts)

Figure C28D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C27L. Pediatric (<18)
1-month patient death HR
estimate (living donor grafts)

Figure C28L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C29. Pediatric (<18) 1-year patient death HR estimate

Figure C30. Pediatric (<18) 1-year patient death HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C29D. Pediatric (<18)
1-year patient death HR estimate (deceased donor grafts)

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

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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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

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C29L. Pediatric (<18)
1-year patient death HR estimate (living donor grafts)

Figure C30L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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## C. Transplant Information

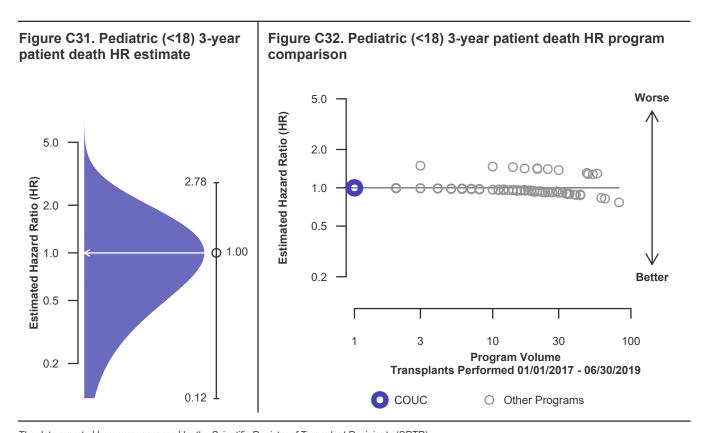
Table C20. Pediatric (<18) 3-year patient survival

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

	COUC	U.S.
Number of transplants evaluated	1	1,882
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.01%
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	12
Number of expected deaths during the first 3 years after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.12, 2.78], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but COUC's performance could plausibly range from 88% reduced risk up to 178% 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

This center did not perform any transplants relevant to this table during 01/01/2017-06/30/2019

Figure C31D. Pediatric (<18)
3-year patient death HR estimate (deceased donor grafts)

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

This center did not perform any transplants relevant to this figure during 01/01/2017-06/30/2019



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### C. Transplant Information

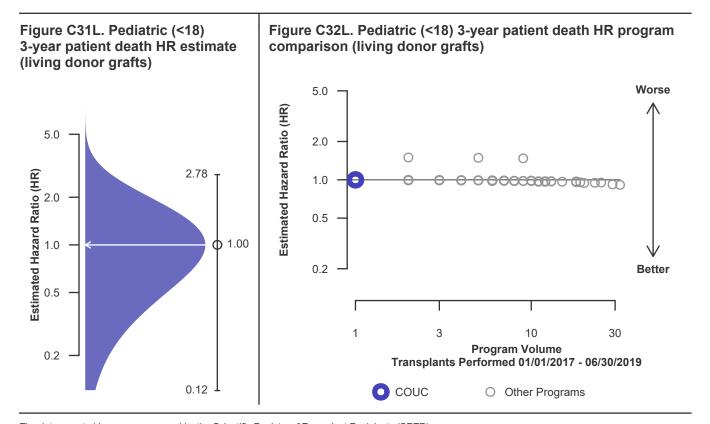
Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

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

	COUC	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	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Colorado Hospital/Health Science Center'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 COUC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.12, 2.78], indicates the location of COUC's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but COUC's performance could plausibly range from 88% reduced risk up to 178% 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** 

**First-Year Outcomes** 

Transplant Type	Transp Perfor COUC-TX1	med	Kidn Graft Fa COUC-TX1	ilures	Estimated Graft Su COUC-TX1	_
Kidney-Heart Kidney-Liver	3 15	736 1,904	1 2	101 219	66.7% 85.6%	86.0% 88.1%
Kidney-Pancreas	15	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

Transplant Type	Transp Perfor COUC-TX1	med	Patient D		Estima Patient S COUC-TX1	
Kidney-Heart	3	736	1	77	66.7%	89.4%
Kidney-Liver	15	1,904	1	176	92.3%	90.3%
Kidney-Pancreas	15	2,070	0	72	100.0%	96.4%

#### Pediatric (<18) Transplants

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



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## **D. Living Donor Information**

Table D1. Living donor summary: 07/01/2019 - 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	104	90	46	5,778	5,911	3,002
<b>6-Month Follow-Up</b> Donors due for follow-up	24	68	27	1,463	4,387	2,457
Timely clinical data	18 75.0%	63 92.6%	23 85.2%	1,239 84.7%	3,851 87.8%	2,137 87.0%
Timely lab data	20 83.3%	59 86.8%	21 77.8%	1,138 77.8%	3,629 82.7%	2,023 82.3%
<b>12-Month Follow-Up</b> Donors due for follow-up	18	84		921	5,319	
Timely clinical data	12 66.7%	68 81.0%		752 81.7%	4,481 84.2%	
Timely lab data	13 72.2%	67 79.8%		716 77.7%	4,093 77.0%	
<b>24-Month Follow-Up</b> Donors due for follow-up	93			5,240		
Timely clinical data	62 66.7%			4,042 77.1%		
Timely lab data	56 60.2%			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