

Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021, July 2021, January 2022, July 2022, January 2023, July 2023, January 2024 and July 2024. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the January 2025 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the January 2025 reporting cycle. These changes will remain in force beyond the January 2025 reporting cycle, unless otherwise amended:

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

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 7/1/2021-12/31/2023, follow-up through 6/30/2024.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-6/30/2021; follow-up through 6/30/2024.

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

Days after listing (and before transplant) between 7/1/2022 and 6/30/2024.



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

COVID-19 Guide

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

Candidates on the waitlist 7/1/2022-6/30/2024.

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

Evaluation period: 7/1/2022-6/30/2024.

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

Offers received 7/1/2023-6/30/2024.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 7, 2025. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for July 2025.

As with the July 2024 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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User Guide

This report contains a wide range of useful information about the kidney transplant program at Hospital of the University of Pennsylvania. The report has three main sections:

- A. Program Summary
- B. Waiting List Information
- C. Transplant Information

The Program Summary is a one-page summary highlighting characteristics of the program, including the number of candidates on the waiting list, the number of transplants performed at the program, the number of patients being cared for by the program, and patient outcomes, including outcomes while on the waiting list (the transplant rate and the death rate while on the waiting list) and outcomes after transplant (patient and graft survival probabilities). If the program performed transplants in both adults and children, survival probabilities for adults and children (pediatrics) are provided separately. For each of the outcomes measures presented, a comparison is provided showing what would be expected at this program if it were performing as similar programs around the country perform when treating similar patients. More details regarding these outcome measures are provided in Sections B and C of the report.

The Waiting List Information section contains more detailed information on how many candidates are on the waiting list at the program, the types of candidates on the waiting list, how long candidates typically have to wait for a transplant at this program, how frequently candidates successfully receive a transplant, and how often candidates on the waiting list die before receiving a transplant.

Table B1 shows the activity on this program's waiting list during two recent 1-year periods and provides comparisons to all programs within this program's OPTN region (see http://optn.transplant.hrsa.gov/members/regions.asp for information on OPTN regions) and the nation as a whole. Tables B2 and B3 describe the candidates on the waiting list at this program, with comparisons to candidates waiting in the same donor service area (OPO/DSA) the OPTN region, and the nation as a whole.

Table B4 shows how many candidates were removed from the waiting list because they received a transplant. The program's transplant rate is calculated as the number of candidates who received a transplant divided by the person-years observed at the program (person-years is a combination of how many candidates were on the waiting list along with how long each candidate was followed since some candidates are not on the waiting list for the entire year). The transplant rate and comparisons to what would be expected at this program are presented in Figures B1 and B2. Figure B1 shows the transplant rate compared to what was expected at this program. The expected transplant rate is an estimate of what we would expect at this program if it were performing transplants at rates similar to other programs in the US with similar candidates on their waiting lists. The expected rate is only an estimate, and is made with a certain level of uncertainty. This uncertainty is shown in Figure B2. Figure B2 displays the ratio of the observed to the expected transplant rate. A ratio of 1 indicates that the observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this



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

User Guide

confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 16.6 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2018 and 12/31/2023. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 2.4 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2024 to calculate a particular percentile of transplant times.

Table B11 contains a summary of the offer acceptance practices of the program. The offer acceptance ratio indicates whether the program is more or less likely to accept offers than the average program. If the offer acceptance ratio is greater than 1.0, then the program tends to accept more offers than average; if the offer acceptance ratio is less than 1.0, then the program tends to accept fewer offers than average. Figure B10 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B11 - B14 similarly show offer acceptance rates for subsets



Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

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

User Guide

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.



Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

Table of Contents

Section	Page
COVID-19 Guide	i
User Guide	iii
A. Program Summary	
Program Summary	1
B. Waiting List Information	
Waiting list activity	2
Demographic characteristics of waiting list candidates	3
Medical characteristics of waiting list candidates	4
Transplant rates	5
Deceased donor transplant rates	6
Pre-transplant mortality rates (formerly called Waiting list mortality rates)	7
Patient survival from listing	8
Waiting list candidate status after listing	9
Percent of candidates with deceased donor transplants: demographic characterist	ics 10
Percent of candidates with deceased donor transplants: medical characteristics	11
Time to transplant for waiting list candidates	12
Offer acceptance practices	13
C. Transplant Information	
Deceased donor transplant recipient demographic characteristics	15
Living donor transplant recipient demographic characteristics	16
Deceased donor transplant recipient medical characteristics	17
Living donor transplant recipient medical characteristics	18
Deceased donor characteristics	19
Living donor characteristics	20
Deceased donor transplant characteristics	21
Living donor transplant characteristics	22
Graft survival	23
Patient survival	53
Multi-organ transplant graft survival	71
Multi-organ transplant patient survival	71
D. Living Donor Information	
Living donor follow-up summary	72



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

A. Program Summary

Figure A1. Waiting list and transplant activity

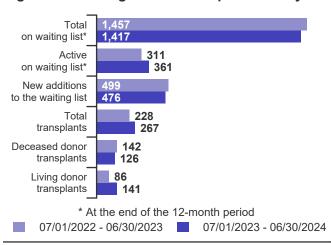


Table A1. Census of transplant recipients

Recipients	07/01/2022- 06/30/2023	07/01/2023- 06/30/2024
Transplanted at this center	228	267
Followed by this center*	2,122	2,173
transplanted at this program	1 2,062	2,108
transplanted elsewhere	60	65

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

Figure A2. Transplant rates 07/01/2022 - 06/30/2024

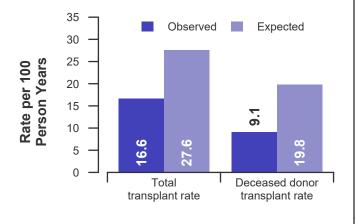


Figure A3. Pre-transplant mortality rates 07/01/2022 - 06/30/2024

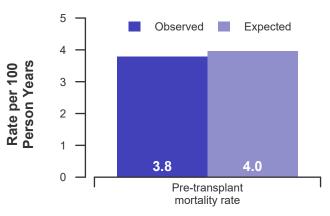


Figure A4. First-year adult graft and patient survival: 07/01/2021 - 12/31/2023

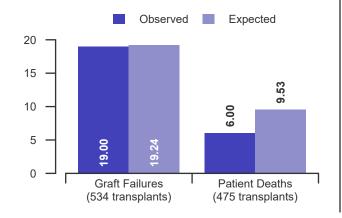
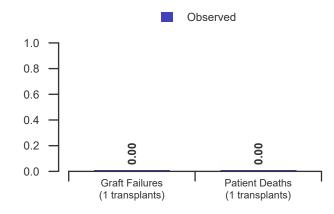


Figure A5. First-year pediatric graft and patient survival: 07/01/2021 - 12/31/2023





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

Table B1. Waiting list activity summary: 07/01/2022 - 06/30/2024

		nts for center	Activity for 07/01/2023 to 06/30/2024 as percent of registrants on waiting list on 07/01/2023			
Waiting List Registrations	07/01/2022- 06/30/2023	07/01/2023- 06/30/2024	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	1,454	1,457	100.0	100.0	100.0	
New listings at this center	499	476	32.7	45.4	50.4	
Removals						
Transferred to another center	27	19	1.3	2.3	1.1	
Received living donor transplant*	83	135	9.3	7.1	6.7	
Received deceased donor transplant*	142	123	8.4	19.9	22.7	
Died	48	42	2.9	4.0	4.0	
Transplanted at another center	63	46	3.2	5.3	4.7	
Deteriorated	58	40	2.7	4.6	4.8	
Recovered	2	9	0.6	0.3	0.3	
Other reasons	73	102	7.0	4.7	5.6	
On waiting list at end of period	1,457	1,417	97.3	97.3	100.5	

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

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

Domographic Characteristic		ting List Regi 023 to 06/30/2		All Waiting List Registrations on 06/30/2024 (%)			
Demographic Characteristic	This Center (N=476)	OPTN Region (N=5,389)	U.S. (N=47,540)	This Center (N=1,417)	OPTN Region (N=11,552)	U.S. (N=94,860)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	47.7	41.2	38.7	42.1	38.9	35.4	
African-American	37.2	38.7	30.5	43.9	42.3	30.5	
Hispanic/Latino	7.4	10.7	20.0	6.0	10.0	22.1	
Asian	6.5	7.5	7.9	7.6	7.7	9.8	
Other	0.6	1.2	2.0	0.2	8.0	1.9	
Unknown	0.6	8.0	8.0	0.2	0.3	0.3	
Age (%)							
<2 years	0.0	0.1	0.2	0.0	0.1	0.1	
2-11 years	0.0	0.6	0.9	0.0	0.6	0.7	
12-17 years	0.0	1.5	1.5	0.0	1.3	1.2	
18-34 years	7.6	8.0	9.7	9.4	7.8	9.6	
35-49 years	23.1	21.2	23.9	25.8	23.8	25.9	
50-64 years	46.0	41.8	40.9	46.4	44.7	43.5	
65-69 years	14.3	15.4	13.5	12.5	14.0	12.5	
70+ years	9.0	11.2	9.4	5.9	7.7	6.5	
Gender (%)							
Male	58.2	63.2	61.9	59.5	64.4	62.4	
Female	41.8	36.8	38.1	40.5	35.6	37.6	

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

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

Medical Characteristic		iting List Regis 2023 to 06/30/2			All Waiting List Registrations on 06/30/2024 (%)			
Medical Characteristic	This Center (N=476)	OPTN Region (N=5,389)	U.S. (N=47,540)	This Center (N=1,417)	OPTN Region (N=11,552)	U.S. (N=94,860)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Blood Type (%)								
0	48.9	47.7	49.8	51.4	51.6	54.8		
A	28.4	32.0	31.7	26.8	27.4	26.8		
В	17.6	16.4	14.8	18.4	18.2	15.9		
AB	5.0	3.8	3.6	3.4	2.8	2.5		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Previous Transplant (%)								
Yes	11.8	13.7	12.5	14.7	14.9	13.3		
No	88.2	86.3	87.5	85.3	85.1	86.7		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Initial CPRA (%)*								
0-9%	5.7	9.3	6.2	50.0	45.3	44.5		
10-79%	14.7	21.8	16.7	13.0	19.1	15.2		
80+%	7.4	9.8	7.9	7.0	7.9	6.9		
Unknown*	72.3	59.0	69.2	30.0	27.7	33.4		
Primary Disease (%)**								
Glomerular Diseases	20.0	17.3	18.2	21.7	17.1	17.8		
Tubular and Interstitial Diseases	6.1	3.7	3.6	4.7	4.2	3.7		
Polycystic Kidneys	6.7	6.4	6.5	7.6	6.6	6.6		
Congenital, Familial, Metabolic	2.5	2.0	2.1	1.8	1.8	2.0		
Diabetes	25.4	35.4	35.7	20.5	34.3	37.5		
Renovascular & Vascular Disease	s 0.0	0.1	0.1	0.0	0.1	0.1		
Neoplasms	0.4	0.5	0.4	0.1	0.4	0.4		
Hypertensive Nephrosclerosis	12.6	21.1	19.7	12.8	22.2	20.1		
Other	26.1	13.1	13.5	30.8	13.1	11.6		
Missing**	0.2	0.4	0.3	0.0	0.2	0.3		

^{*} cPRA is calculated from unacceptable antigens. "Unknown" indicates no unacceptable antigens have been entered. For the purpose of the risk-adjustment models, unknown cPRA is treated as cPRA = 0.

^{**} 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.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

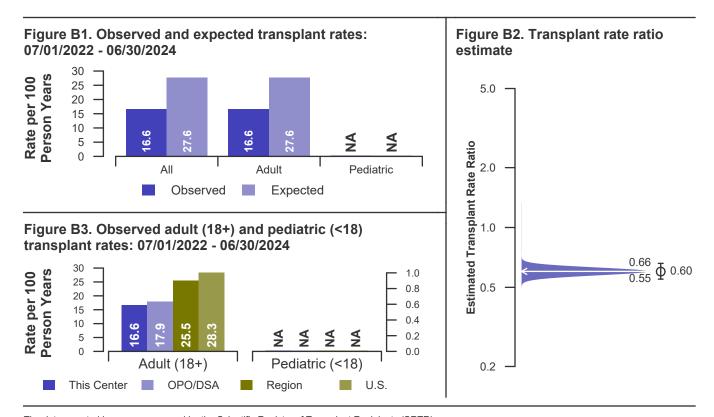
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Table B4. Transplant rates: 07/01/2022 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,453	4,456	12,025	95,221
Person Years**	2,913.5	8,719.6	23,651.7	189,369.2
Removals for Transplant	483	1,598	6,102	54,327
Adult (18+) Candidates				
Count on waiting list at start*	1,453	4,373	11,820	93,498
Person Years**	2,913.5	8,548.6	23,218.8	185,741.0
Removals for transpant	483	1,532	5,918	52,522
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

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

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





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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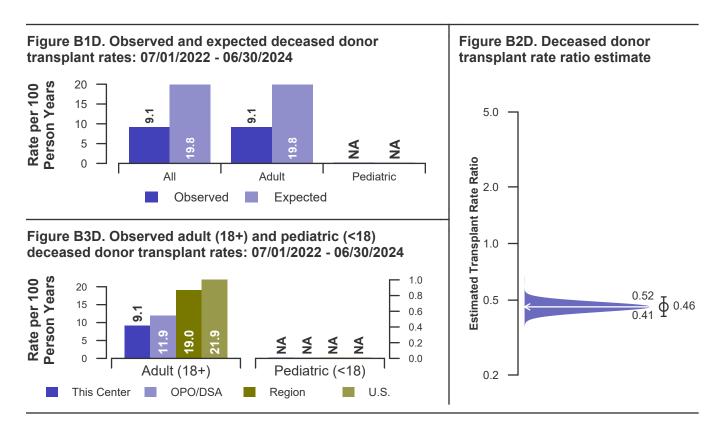
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Table B4D. Deceased donor transplant rates: 07/01/2022 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,453	4,456	12,025	95,221
Person Years**	2,913.5	8,719.6	23,651.7	189,369.2
Removals for Transplant	265	1,057	4,532	42,022
Adult (18+) Candidates				
Count on waiting list at start*	1,453	4,373	11,820	93,498
Person Years**	2,913.5	8,548.6	23,218.8	185,741.0
Removals for transpant	265	1,020	4,419	40,723
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

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

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





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

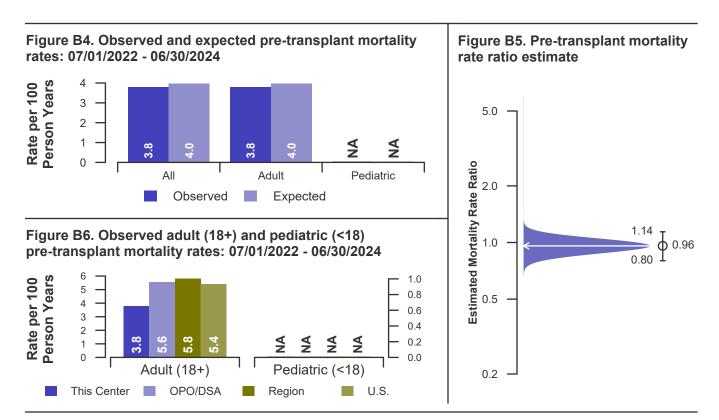
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Table B5. Pre-transplant mortality rates: 07/01/2022 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,453	4,456	12,025	95,221
Person Years**	3,136.9	9,792.8	25,865.9	205,807.9
Number of deaths	119	538	1,479	10,930
Adult (18+) Candidates				
Count on waiting list at start*	1,453	4,373	11,820	93,498
Person Years**	3,136.9	9,621.4	25,423.1	202,052.1
Number of deaths	119	535	1,473	10,888
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Number of deaths				

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

^{**} Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or June 30.





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

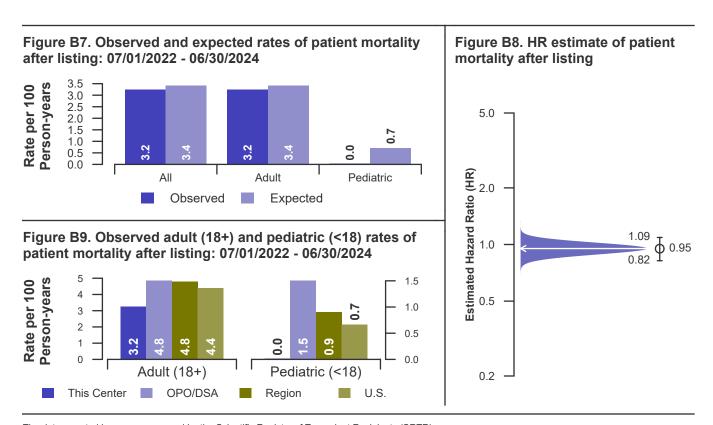
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Table B6. Rates of patient mortality after listing: 07/01/2022 - 06/30/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	3,834	13,024	39,139	322,340
Person-years*	5,867.4	19,635.9	58,452.2	481,788.8
Number of Deaths	190	930	2,736	20,642
Adult (18+) Patients				
Count at risk during the evaluation period	3,831	12,639	38,137	313,047
Person-years*	5,864.7	19,035.8	56,903.8	467,524.6
Number of Deaths	190	921	2,722	20,547
Pediatric (<18) Patients				
Count at risk during the evaluation period	3	385	1,002	9,293
Person-years*	2.6	600.2	1,548.4	14,264.2
Number of Deaths	0	9	14	95

^{*} Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2022, or from the date of first wait listing until death, reaching 7 years after listing or June 30, 2024.

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





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 01/01/2022 and 12/31/2022

Waiting list status (survival status)		Center (Na ns Since L 12	,	U.S. (N=43,795) Months Since Listing 6 12 18			
Alive on waiting list (%)	90.2	78.6	69.2	72.8	58.5	47.9	
Died on the waiting list without transplant (%)	8.0	2.6	3.8	1.2	2.2	3.0	
Removed without transplant (%):							
Condition worsened (status unknown)	8.0	1.3	1.5	0.7	1.6	2.8	
Condition improved (status unknown)	0.0	0.2	0.4	0.1	0.2	0.3	
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.1	
Other	1.9	3.4	5.1	8.0	1.8	3.1	
Transplant (living donor from waiting list only) (%):							
Functioning (alive)	2.3	6.0	6.0	5.2	8.2	7.0	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0	
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0	
Died	0.0	0.0	0.0	0.0	0.1	0.1	
Status Yet Unknown**	0.0	0.0	2.8	0.1	0.3	3.3	
Transplant (deceased donor) (%):							
Functioning (alive)	2.8	5.9	6.6	16.2	20.9	16.8	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0	
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.1	0.1	
Died	0.0	0.0	0.0	0.4	0.7	1.0	
Status Yet Unknown*	0.9	1.3	3.6	2.2	4.8	13.8	
Lost or Transferred (status unknown) (%)	0.4	0.6	0.9	0.2	0.5	8.0	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	0.8	2.6	3.8	1.6	2.9	4.1	
Total % known died or removed as unstable	1.5	4.0	5.3	2.3	4.5	6.9	
Total % removed for transplant	6.0	13.2	19.1	24.2	35.2	42.1	
Total % with known functioning transplant (alive)	5.1	11.9	12.7	21.4	29.1	23.8	

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2018 and 06/30/2021

Characteristic			ercent t nis Cent	-	nted at	time per		ice listi	_	
Ondracteristic	N			2 years	3 years	s N				3 years
All	1,008	3.6	13.2	19.6	23.1	104,231	5.6	22.3	30.3	36.3
Ethnicity/Race*										
White	448	4.9	14.3	21.0	23.4	40,068	5.8	23.4	31.3	36.6
African-American	410	2.2	12.7	18.8	23.4	32,907	5.6	22.4	30.8	37.6
Hispanic/Latino	69	2.9	10.1	17.4	20.3	20,482	6.0	21.9	29.7	35.7
Asian	81	3.7	12.3	18.5	22.2	8,791	3.7	16.8	24.4	30.1
Other	0					1,982	7.6	25.6	33.2	39.2
Unknown	0					1	0.0	0.0	0.0	0.0
Age										
<2 years	0					111	6.3	43.2	64.9	73.0
2-11 years	0					843	7.9	50.4	65.0	72.7
12-17 years	0					1,507	8.0	46.9	59.5	64.8
18-34 years	123	1.6	10.6	17.1	19.5	10,026	5.8	25.2	35.7	43.3
35-49 years	227	5.7	11.5	15.0	17.2	25,501	5.6	22.3	30.7	37.0
50-64 years	469	2.8	13.0	19.0	22.6	43,922	5.5	20.5	27.8	33.6
65-69 years	154	3.2	16.9	26.6	32.5	14,173	5.5	20.6	27.8	33.3
70+ years	35	8.6	20.0	37.1	40.0	8,148	5.9	23.5	30.5	35.3
Gender										
Male	607	2.8	11.5	17.3	20.6	64,658	5.9	21.6	29.2	35.1
Female	401	4.7	15.7	23.2	26.9	39,573	5.2	23.4	32.0	38.2

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 07/01/2018 and 06/30/2021

Characteristic	Percent transplanted at time periods since listing This Center United States								_	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	1,008	3.6	13.2	19.6	23.1	104,231	5.6	22.3	30.3	36.3
Blood Type										
Ο	491	2.6	10.8	16.5	19.6	52,161	4.9	18.9	25.8	31.3
A	303	5.0	18.2	26.1	30.4	32,448	7.0	27.1	36.6	43.4
В	185	3.8	10.8	15.7	18.9	15,678	3.9	19.2	26.9	32.9
AB	29	3.4	17.2	31.0	34.5	3,944	10.8	40.3	50.9	56.4
Previous Transplant										
Yes	134	6.7	16.4	24.6	29.1	13,898	3.6	21.1	29.7	35.8
No	874	3.1	12.7	18.9	22.2	90,333	5.9	22.4	30.4	36.3
Peak PRA/CPRA*										
0-9%	819	4.2	13.3	18.9	22.5	82,163	6.0	21.7	29.4	35.3
10-79%	113	0.0	11.5	19.5	20.4	13,556	4.8	21.8	30.3	36.3
80+%	76	2.6	14.5	27.6	34.2	8,399	3.6	28.9	39.5	45.6
Unknown*	0					1	100.0	100.0	100.0	100.0
Primary Disease**										
Glomerular Diseases	221	3.2	13.6	20.4	23.1	18,460	4.8	23.3	32.8	40.1
Tubular & Interstitial Diseases	37	5.4	16.2	27.0	32.4	3,863	6.8	25.3	33.2	38.2
Polycystic Kidneys	82	0.0	12.2	19.5	24.4	6,763	4.1	20.7	29.9	37.3
Congenital, Familial, Metabolic	9	0.0	11.1	33.3	33.3	2,026	6.0	33.0	43.7	50.8
Diabetes	171	0.6	6.4	12.9	17.0	38,703	4.0	17.6	24.4	29.3
Renovascular & Vascular Diseases	1	0.0	0.0	0.0	0.0	132	3.8	23.5	32.6	40.2
Neoplasms	0					372	5.6	29.3	38.4	42.5
Hypertensive Nephrosclerosis	63	4.8	9.5	12.7	14.3	21,085	6.1	23.3	32.0	38.8
Other	424	5.4	16.3	22.2	25.7	12,499	11.6	31.6	39.3	44.3
Missing**	0					328	2.1	14.0	23.8	28.0

^{*} cPRA is calculated from unacceptable antigens. "Unknown" indicates no unacceptable antigens have been entered. For the purpose of the risk-adjustment models, unknown cPRA is treated as cPRA = 0.

^{**} 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.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 07/01/2018 and 12/31/2023

	Months to Transplant**			
Percentile	Center	OPO/DSA	Region	U.S.
5th	2.4	1.7	0.9	0.6
10th	5.6	4.4	2.3	1.6
25th	17.4	15.6	8.7	7
50th (median time to transplant)	60.6	Not Observed	33.4	29.3
75th	Not Observed	Not Observed	Not Observed	Not Observed

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

^{**} Censored on 06/30/2024. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

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

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	24,457	126,468	553,886	3,560,587
Number of Acceptances	111	482	2,236	19,856
Expected Acceptances	156.4	966.1	2,737.4	19,855.6
Offer Acceptance Ratio*	0.71	0.50	0.82	1.00
95% Credible Interval**	[0.59, 0.85]			
Low-KDRI Donors (KDRI < 1.05)				
Number of Offers	964	5,554	25,054	309,131
Number of Acceptances	23	128	493	5,208
Expected Acceptances	26.4	167.8	517.0	5,209.8
Offer Acceptance Ratio*	0.88	0.77	0.95	1.00
95% Credible Interval**	[0.57, 1.26]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)	-			
Number of Offers	16,655	82,771	323,853	2,184,652
Number of Acceptances	84	302	1,304	11,210
Expected Acceptances	101.4	600.9	1,648.3	11,206.2
Offer Acceptance Ratio*	0.83	0.50	0.79	1.00
95% Credible Interval**	[0.67, 1.02]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	6,838	38,143	204,979	1,066,804
Number of Acceptances	4	52	439	3,438
Expected Acceptances	28.7	197.4	572.1	3,439.6
Offer Acceptance Ratio*	0.20	0.27	0.77	1.00
95% Credible Interval**	[0.07, 0.38]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	20,462	104,120	490,023	3,109,219
Number of Acceptances	16	84	679	4,166
Expected Acceptances	21.7	189.9	636.2	3,994.4
Offer Acceptance Ratio*	0.76	0.45	1.07	1.04
95% Credible Interval**	[0.45, 1.15]			
Donor KDPI >= 60				
Number of Offers	15,379	78,637	365,218	2,060,407
Number of Acceptances	29	140	907	7,028
Expected Acceptances	65.7	408.2	1,146.6	7,015.4
Offer Acceptance Ratio*	0.46	0.35	0.79	1.00
95% Credible Interval**	[0.31, 0.63]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of Hospital of the University of Pennsylvania compared to the national offer acceptance practice. A ratio above one indicates the program accepts more offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a center accepts 25% more offers than is expected based on national offer acceptance practices), while a ratio below one indicates the program accepts fewer offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a center accepts 25% fewer offers than is expected based on national offer acceptance practices).

^{**} As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.59, 0.85], indicates the location of PAUP's true offer acceptance ratio with 95% probability. The best estimate is 29% less likely to accept an offer compared to national acceptance behavior, but PAUP's performance could plausibly range from 41% reduced acceptance up to 15% reduced acceptance.

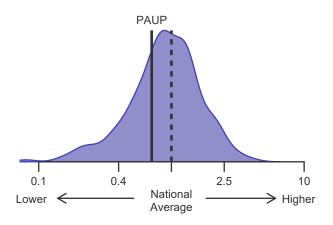


Center Code: PAUP Transplant Program (Organ): Kidney

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

Figure B10. Offer acceptance: Overall

Figure B11. Offer acceptance: Low-KDRI



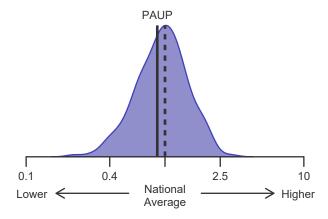
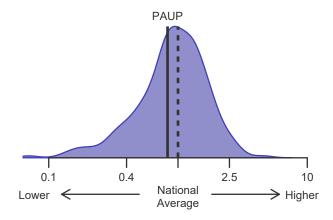


Figure B12. Offer acceptance: Medium-KDRI

Figure B13. Offer acceptance: High-KDRI



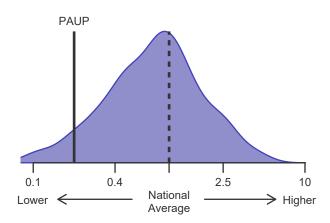
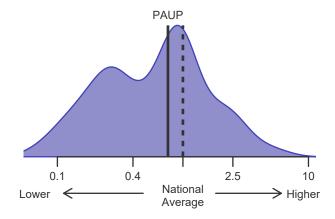
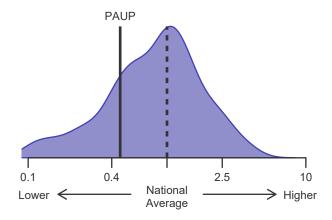


Figure B14. Offer acceptance: Offer number > 100 Figure B15. Offer acceptance: Donor KDPI >= 60







Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2023 and 06/30/2024

	Percentage in each category		
Characteristic	Center (N=126)	Region (N=2,370)	U.S. (N=21,423)
Ethnicity/Race (%)*			
White	38.1	32.9	32.9
African-American	42.9	46.2	37.2
Hispanic/Latino	8.7	11.7	19.7
Asian	8.7	7.9	8.1
Other	1.6	1.1	1.9
Unknown	0.0	0.2	0.2
Age (%)			
<2 years	0.0	0.1	0.1
2-11 years	0.0	0.5	1.1
12-17	0.0	1.4	1.5
18-34	7.9	7.1	8.4
35-49 years	24.6	18.5	21.3
50-64 years	38.1	40.3	40.4
65-69 years	20.6	16.9	14.7
70+ years	8.7	15.2	12.5
Gender (%)			
Male	61.9	59.7	59.5
Female	38.1	40.3	40.5

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

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

	Percer	Percentage in each category		
Characteristic	Center (N=141)	Region (N=861)	U.S. (N=6,379)	
Ethnicity/Race (%)*				
White	61.0	63.6	61.2	
African-American	22.7	18.5	12.2	
Hispanic/Latino	6.4	10.1	17.4	
Asian	9.9	7.0	7.2	
Other	0.0	0.5	1.7	
Unknown	0.0	0.3	0.3	
Age (%)				
<2 years	0.0	0.3	0.2	
2-11 years	0.0	3.1	1.8	
12-17	0.0	1.6	1.6	
18-34	12.8	13.9	15.8	
35-49 years	20.6	23.3	25.1	
50-64 years	45.4	36.9	35.3	
65-69 years	13.5	10.8	10.2	
70+ years	7.8	9.9	9.9	
Gender (%)				
Male	62.4	66.1	63.4	
Female	37.6	33.9	36.6	

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2023 and 06/30/2024

	Percentage in each category		
Characteristic	Center (N=126)	Region (N=2,370)	U.S. (N=21,423)
Blood Type (%)			
0	40.5	44.2	47.1
A	32.5	34.7	33.5
В	18.3	15.8	14.7
AB	8.7	5.3	4.8
Previous Transplant (%)			
Yes	18.3	14.1	12.6
No	81.7	85.9	87.4
Peak PRA/CPRA Prior to Transplant (%)*			
0-9%	55.6	29.5	28.2
10-79%	14.3	26.0	25.6
80+ %	15.9	20.0	17.4
Unknown*	14.3	24.6	28.8
Body Mass Index (%)			
0-20	5.6	8.0	9.1
21-25	33.3	28.2	27.5
26-30	28.6	30.3	31.5
31-35	19.0	20.1	21.1
36-40	9.5	10.1	8.3
41+	1.6	1.6	1.5
Unknown	2.4	1.7	1.0
Primary Disease (%)**			
Glomerular Diseases	26.2	17.5	19.3
Tubular and Interstitial Disease	7.1	4.4	3.8
Polycystic Kidneys	5.6	6.8	6.4
Congenital, Familial, Metabolic	2.4	1.9	2.4
Diabetes	24.6	33.9	32.1
Renovascular & Vascular Diseases	0.0	0.1	0.1
Neoplasms	0.8	0.6	0.5
Hypertensive Nephrosclerosis	18.3	24.9	23.1
Other Kidney	15.1	9.6	12.1
Missing**	0.0	0.2	0.3

^{*} cPRA is calculated from unacceptable antigens. "Unknown" indicates no unacceptable antigens have been entered. For the purpose of the risk-adjustment models, unknown cPRA is treated as cPRA = 0.

^{**} 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.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

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

	Percentage in each category		
Characteristic	Center (N=141)	Region (N=861)	U.S. (N=6,379)
Blood Type (%)			
0	27.0	40.5	43.8
A	56.7	40.7	38.2
В	9.2	13.5	13.7
AB	7.1	5.3	4.3
Previous Transplant (%)			
Yes	16.3	10.1	11.3
No	83.7	89.9	88.7
Peak PRA/CPRA Prior to Transplant (%)*			
0-9%	57.4	34.0	31.4
10-79%	13.5	29.6	24.9
80+ %	5.7	5.1	5.3
Unknown*	23.4	31.2	38.4
Body Mass Index (%)			
0-20	9.2	11.7	11.8
21-25	31.2	27.4	28.7
26-30	38.3	31.6	31.2
31-35	15.6	20.3	19.9
36-40	5.7	7.5	6.9
41+	0.0	1.3	1.2
Unknown	0.0	0.1	0.3
Primary Disease (%)**			
Glomerular Diseases	24.8	25.3	27.4
Tubular and Interstitial Disease	8.5	5.9	5.2
Polycystic Kidneys	15.6	12.8	12.3
Congenital, Familial, Metabolic	3.5	4.3	3.6
Diabetes	16.3	22.8	24.8
Renovascular & Vascular Diseases	0.0	0.0	0.1
Neoplasms	0.0	0.7	0.6
Hypertensive Nephrosclerosis	9.2	16.0	14.8
Other Kidney	20.6	11.8	11.0
Missing**	1.4	0.3	0.3

^{*} cPRA is calculated from unacceptable antigens. "Unknown" indicates no unacceptable antigens have been entered. For the purpose of the risk-adjustment models, unknown cPRA is treated as cPRA = 0.

^{**} 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.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

Table C3D. Deceased donor characteristics
Transplants performed between 07/01/2023 and 06/30/2024

	Percentage in each category			
Donor Characteristic	Center (N=126)	Region (N=2,370)	U.S. (N=21,423)	
Cause of Death (%)				
Deceased: Stroke	13.5	24.1	21.9	
Deceased: MVA	11.1	8.6	12.0	
Deceased: Other	75.4	67.3	66.1	
Ethnicity/Race (%)*				
White	60.3	64.4	66.3	
African-American	16.7	18.0	13.7	
Hispanic/Latino	17.5	13.3	15.2	
Asian	4.0	3.0	2.8	
Other	0.8	0.7	1.4	
Not Reported	0.8	0.5	0.6	
Age (%)				
<2 years	3.2	1.0	0.6	
2-11 years	8.7	2.3	2.1	
12-17	4.0	3.0	3.3	
18-34	26.2	24.7	26.5	
35-49 years	33.3	33.9	33.9	
50-64 years	24.6	30.5	29.6	
65-69 years	0.0	3.8	3.4	
70+ years	0.0	0.9	0.6	
Gender (%)				
Male	65.9	62.9	63.4	
Female	34.1	37.1	36.6	
Blood Type (%)				
0	43.7	45.9	48.8	
A	35.7	38.1	36.4	
В	17.5	13.0	11.7	
AB	3.2	2.9	3.1	
Unknown	0.0	0.0	0.0	

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

Table C3L. Living donor characteristics
Transplants performed between 07/01/2023 and 06/30/2024

	Percentage in each category		
Donor Characteristic	Center (N=141)	Region (N=861)	U.S. (N=6,379)
Ethnicity/Race (%)*			
White	87.2	73.2	68.1
African-American	3.5	9.1	7.8
Hispanic/Latino	2.8	10.0	16.2
Asian	5.0	5.6	5.1
Other	0.0	0.8	2.1
Not Reported	1.4	1.4	0.7
Age (%)			
0-11 years	0.0	0.0	0.0
12-17	0.0	0.0	0.0
18-34	19.9	23.3	23.2
35-49 years	32.6	38.1	39.2
50-64 years	36.2	30.4	30.6
65-69 years	7.1	6.0	5.1
70+ years	4.3	2.1	1.8
Gender (%)			
Male	37.6	38.8	35.5
Female	62.4	61.2	64.5
Blood Type (%)			
0	33.3	56.4	59.9
A	53.2	32.4	29.3
В	8.5	8.4	8.9
AB	5.0	2.8	1.9
Unknown	0.0	0.0	0.0

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

Table C4D.	Deceased	donor trai	nsplant c	haracteri	stics
Transplant	s performe	d hetween	07/01/20	123 and 0	6/30/2024

N=126 N=2,370 N=21,423 Cold Ischemic Time (Hours): Local (%)	Transplants performed between 07/01/2023 and 06/30/2024	Percentage in each category		
Deceased: 0-11 hr 14.8 13.7 16.6 Deceased: 12-21 hr 72.1 59.9 56.5 Deceased: 12-31 hr 11.5 23.3 23.3 23.3 Deceased: 22-31 hr 10.0 1.7 2.5 Deceased: 22-31 hr 0.0 1.6 1.2 0.7 0.5 Deceased: 42+ hr 0.0 0.0 0.2 0.4 0.5 0.	Transplant Characteristic			
Deceased: 0-11 hr 14.8 13.7 16.6 Deceased: 12-21 hr 72.1 59.9 56.5 Deceased: 12-31 hr 11.5 23.3 23.3 23.3 Deceased: 22-31 hr 10.0 1.7 2.5 Deceased: 22-31 hr 0.0 1.6 1.2 0.7 0.5 Deceased: 42+ hr 0.0 0.0 0.2 0.4 0.5 0.	Cold Ischemic Time (Hours): Local (%)			
Deceased: 22-91 hr		14.8	13.7	16.6
Deceased: 22-31 hr	Deceased: 12-21 hr	72.1	59.9	56.5
Deceased: 32-41 hr	Deceased: 22-31 hr			
Decased: 42+ hr Not Reported 1.6 1.2 0.7				
Not Reported 1.6 1.2 0.7				
Deceased: 0-11 hr	Not Reported			
Deceased: 0-11 hr 20.0				
Deceased: 12-21 hr 55.4 53.3 51.8 Deceased: 22-31 hr 24.6 32.2 34.0 Deceased: 32-41 hr 0.0 3.8 5.5 Deceased: 32-41 hr 0.0 1.2 0.9 Not Reported 0.0 0.0 1.2 0.9 Not Reported 0.0 0.0 1.0 0.7 Deveased: 42-4 hr 0.0 0.0 1.0 0.7 Deveased: 42-4 hr 0.0 0.0 0.1 0.0 To Deveased: 42-4 hr 0.0 0.0 0.1 0.0 To Deveased: 42-4 hr 0.0 0.0 0.1 0.0 Deveased: 42-4 hr 0.0 0.0 0.1 0.0 Deveased: 42-4 0.0 0.0 0.1 0.2 Deveased: 42-5 0.0 0.0 0.0 Deveased: 42-5		20.0	8.6	7.1
Deceased: 22-31 hr 24.6 32.2 34.0 Deceased: 32-41 hr 0.0 3.8 5.5 Deceased: 42+ hr 0.0 1.0 0.7 Not Reported 0.0 1.0 0.7 Level of Mismatch (%) A Locus Mismatches (%) 0 12.7 11.0 11.6 1 44.4 38.4 38.8 38.8 2 42.9 50.4 49.5 Not Reported 0.0 0.1 0.2 B Locus Mismatches (%) 0 5.6 7.2 6.9 1 22.2 24.1 24.1 2 72.2 68.6 68.9 Not Reported 0.0 0.1 0.2 DR Locus Mismatches (%) 0 12.7 14.5 14.8 1 20 36.5 41.3 39.4 Not Reported 0.0 0.1 0.2 DR Locus Mismatches (%) 0 12.7 14.5 14.8 1 50.8 44.1 45.7 2 36.5 41.3 39.4 Not Reported 0.0 0.1 0.2 Total Mismatches (%) 0 4.0 4.3 4.4 1 2 2 4 4.4 4.2 3 3 4.4 1.1 2 2 4 4.4 4.2 3 3 4.4 4.2 3 4 4 4.2 3 4 4 4.2 3 4 4 4.2 3 4 4 4.2 3 4 4 4.2 3 4 4 4.2 3 5 5 34.5 33.1 6 14.3 17.5 17.0 Not Reported 0.0 0.1 0.2 Procedure Type (%) Single organ 89.7 96.9 94.2 Multi organ 96.9 96.9 Multi organ 96.9 96.9 Multi organ 96.9 96.9 Multi organ 96.9 96.9				
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Multi organ 10.3 3.1 5.8 Dialysis in First Week After Transplant (%) Yes 41.3 35.1 33.5 No 58.7 64.9 66.4 Not Reported 0.0 0.0 0.0 Donor Location (%) Local Donation Service Area (DSA) 48.4 24.6 38.3 Another Donation Service Area (DSA) 51.6 75.4 61.7		89.7	96.9	94.2
Dialysis in First Week After Transplant (%) Yes 41.3 35.1 33.5 No 58.7 64.9 66.4 Not Reported 0.0 0.0 0.0 Donor Location (%) Local Donation Service Area (DSA) 48.4 24.6 38.3 Another Donation Service Area (DSA) 51.6 75.4 61.7				
Yes 41.3 35.1 33.5 No 58.7 64.9 66.4 Not Reported 0.0 0.0 0.0 Donor Location (%) Local Donation Service Area (DSA) 48.4 24.6 38.3 Another Donation Service Area (DSA) 51.6 75.4 61.7				
No 58.7 64.9 66.4 Not Reported 0.0 0.0 0.0 Donor Location (%) 48.4 24.6 38.3 Another Donation Service Area (DSA) 51.6 75.4 61.7		41.3	35.1	33.5
Not Reported 0.0 0.0 0.0 Donor Location (%) 48.4 24.6 38.3 Local Donation Service Area (DSA) 51.6 75.4 61.7				
Donor Location (%)Local Donation Service Area (DSA)48.424.638.3Another Donation Service Area (DSA)51.675.461.7				
Local Donation Service Area (DSA)48.424.638.3Another Donation Service Area (DSA)51.675.461.7		0.0	0.0	0.0
Another Donation Service Area (DSA) 51.6 75.4 61.7		48 4	24.6	38.3
` '				
	Median Time in Hospital After Transplant	4.0 Days	5.0 Days	5.0 Days



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

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

	Percentage in each category		
Transplant Characteristic	Center (N=141)	Region (N=861)	U.S. (N=6,379)
Relation with Donor (%)	((11 001)	(11 3,313)
Related	12.1	33.1	36.3
Unrelated	87.9	66.7	63.0
Not Reported	0.0	0.2	0.7
Level of Mismatch (%)	0.0	0.2	0
A Locus Mismatches (%)			
0	16.3	17.2	16.3
1	46.1	46.9	47.4
2	36.9	34.0	32.7
Not Reported	0.7	1.9	3.7
B Locus Mismatches (%)	0	1.0	0
0	5.7	9.5	9.3
1	36.2	39.4	41.4
2	57.4	49.2	45.6
Not Reported	0.7	1.9	3.7
DR Locus Mismatches (%)	0	1.0	0
0	17.0	15.1	15.4
1	44.7	46.0	46.8
2	37.6	37.0	34.1
Not Reported	0.7	1.9	3.7
Total Mismatches (%)			•
0	1.4	4.4	4.8
1	2.8	3.4	3.5
2	11.3	11.6	11.3
3	18.4	20.9	22.2
4	27.7	19.7	18.1
5	26.2	23.9	23.5
6	11.3	14.2	13.0
Not Reported	0.7	1.9	3.7
Procedure Type (%)			
Single organ	100.0	99.9	100.0
Multi organ	0.0	0.1	0.0
Dialysis in First Week After Transplant (%)	-		-
Yes	7.1	3.5	2.7
No	92.9	96.5	97.2
Not Reported	0.0	0.0	0.1
Median Time in Hospital After Transplant	3.0 Days	4.0 Days	4.0 Days



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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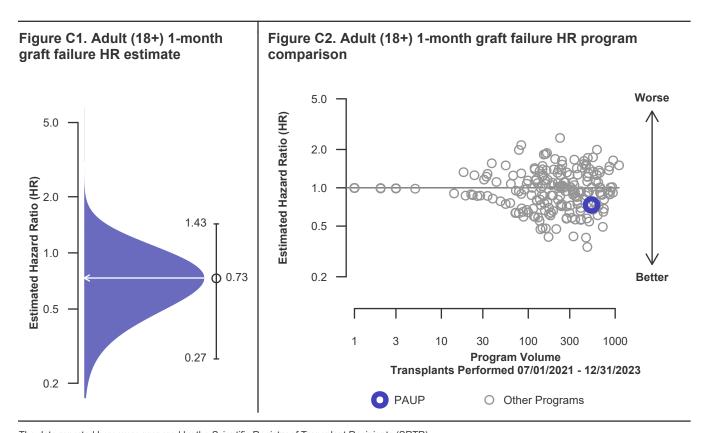
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	534	59,833
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.25% [98.52%-99.98%]	98.51% [98.41%-98.61%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.85%	
Number of observed graft failures (including deaths) during the first month after transplant	4	891
Number of expected graft failures (including deaths) during the first month after transplant	6.18	
Estimated hazard ratio*	0.73	
95% credible interval for the hazard ratio**	[0.27, 1.43]	

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

^{**} The 95% credible interval, [0.27, 1.43], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 27% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 73% reduced risk up to 43% increased risk.





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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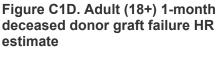
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	296	45,303
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.65% [97.34%-99.97%]	98.25% [98.13%-98.37%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.43%	
Number of observed graft failures (including deaths) during the first month after transplant	4	791
Number of expected graft failures (including deaths) during the first month after transplant	4.68	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.33, 1.75]	

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

^{**} The 95% credible interval, [0.33, 1.75], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 67% reduced risk up to 75% increased risk.



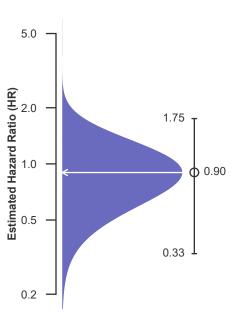
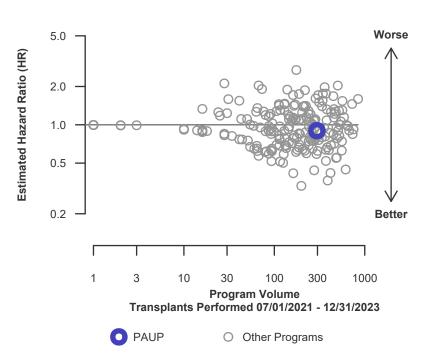


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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Transplant Program (Organ): Kidney Release Date: January 7, 2025

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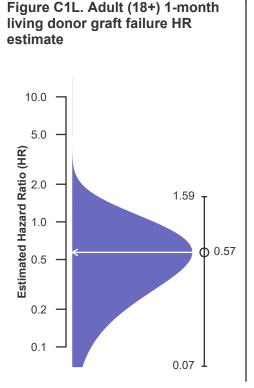
C. Transplant Information

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

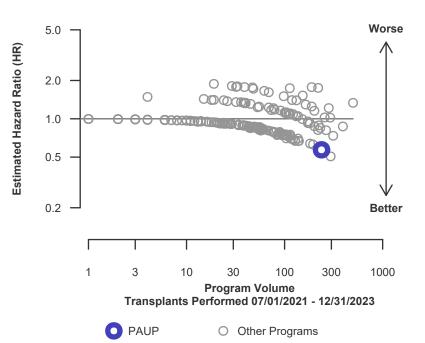
	PAUP	U.S.
Number of transplants evaluated	238	14,530
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.31% [99.18%-99.45%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.37%	
Number of observed graft failures (including deaths) during the first month after transplant	0	100
Number of expected graft failures (including deaths) during the first month after transplant	1.51	
Estimated hazard ratio*	0.57	
95% credible interval for the hazard ratio**	[0.07, 1.59]	

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

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









Center Code: PAUP
Transplant Program (Orga

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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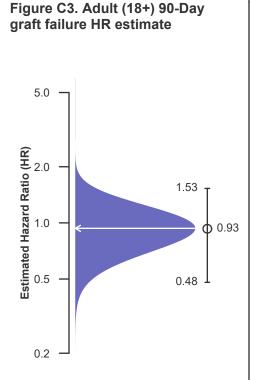
C. Transplant Information

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

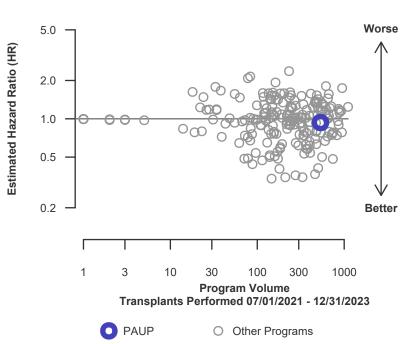
	PAUP	U.S.
Number of transplants evaluated	534	59,833
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	98.13% [96.98%-99.28%]	97.33% [97.20%-97.46%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.98%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	10	1,597
Number of expected graft failures (including deaths) during the first 90 days after transplant	10.83	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.48, 1.53]	

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

^{**} The 95% credible interval, [0.48, 1.53], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 52% reduced risk up to 53% increased risk.









Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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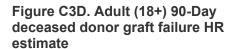
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	296	45,303
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	96.96% [95.02%-98.94%]	96.81% [96.65%-96.97%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.12%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	9	1,446
Number of expected graft failures (including deaths) during the first 90 days after transplant	8.56	
Estimated hazard ratio*	1.04	
95% credible interval for the hazard ratio**	[0.52, 1.74]	

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

^{**} The 95% credible interval, [0.52, 1.74], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 4% higher risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 48% reduced risk up to 74% increased risk.



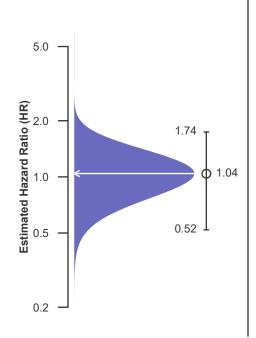
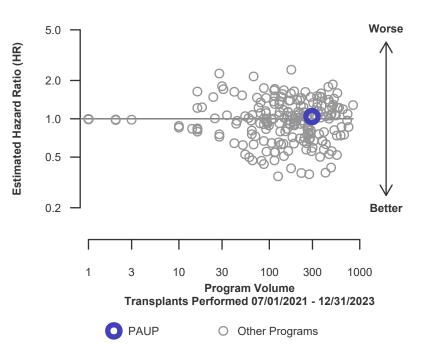


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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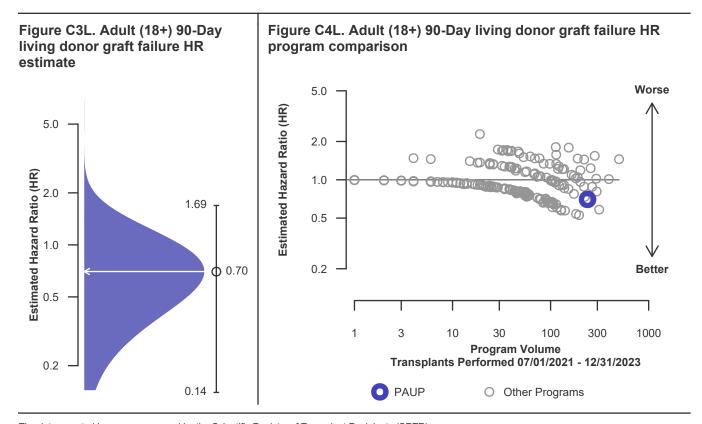
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	238	14,530
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	99.58% [98.76%-100.00%]	98.96% [98.80%-99.13%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	99.05%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	151
Number of expected graft failures (including deaths) during the first 90 days after transplant	2.28	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.14, 1.69]	

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

^{**} The 95% credible interval, [0.14, 1.69], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 30% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 86% reduced risk up to 69% increased risk.





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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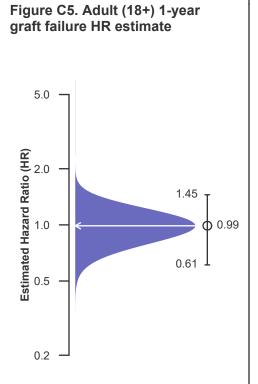
C. Transplant Information

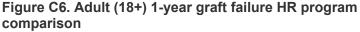
Table C7. Adult (18+) 1-year survival with a functioning graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

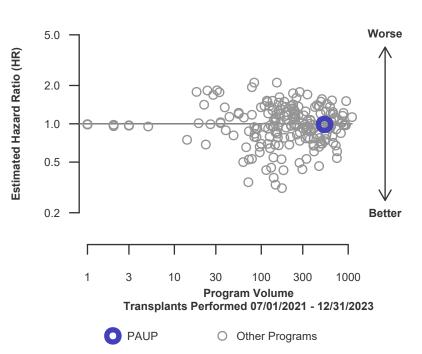
	PAUP	U.S.
Number of transplants evaluated	534	59,833
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.07% [94.34%-97.84%]	94.97% [94.78%-95.15%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	96.14%	
Number of observed graft failures (including deaths) during the first year after transplant	19	2,826
Number of expected graft failures (including deaths) during the first year after transplant	19.24	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.61, 1.45]	

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

^{**} The 95% credible interval, [0.61, 1.45], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 39% reduced risk up to 45% increased risk.









Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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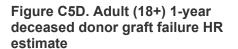
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	296	45,303
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	94.58% [91.93%-97.31%]	94.02% [93.79%-94.25%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.58%	
Number of observed graft failures (including deaths) during the first year after transplant	15	2,545
Number of expected graft failures (including deaths) during the first year after transplant	15.13	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.58, 1.52]	

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

^{**} The 95% credible interval, [0.58, 1.52], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 42% reduced risk up to 52% increased risk.



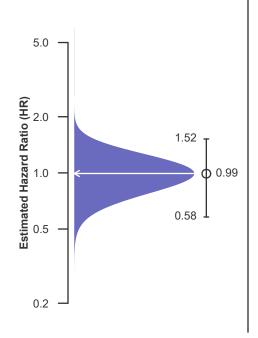
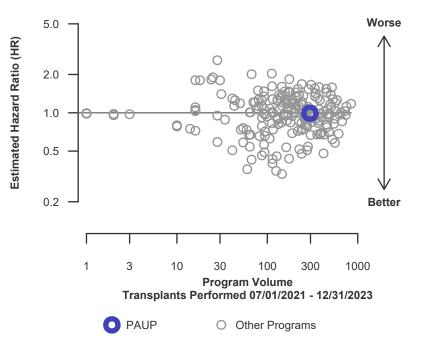


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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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 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	PAUP	U.S.
Number of transplants evaluated	238	14,530
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.96% [95.98%-99.99%]	97.91% [97.67%-98.16%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.08%	
Number of observed graft failures (including deaths) during the first year after transplant	4	281
Number of expected graft failures (including deaths) during the first year after transplant	4.11	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.36, 1.91]	

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

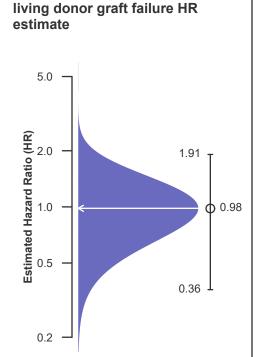
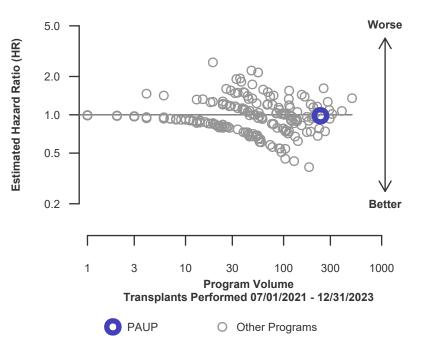


Figure C5L. Adult (18+) 1-year





^{**} The 95% credible interval, [0.36, 1.91], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 64% reduced risk up to 91% increased risk.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

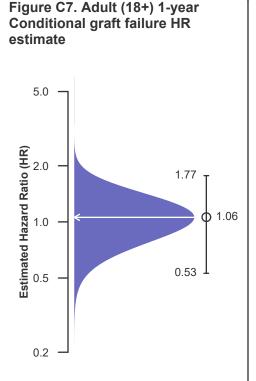
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Table C8. Adult (18+) 1-year Conditional survival with a functioning graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

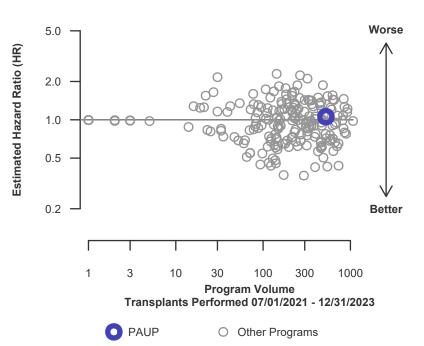
	PAUP	U.S.
Number of transplants evaluated	524	58,236
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [unadjusted for patient and donor characteristics]	97.91% 97.27%-98.54%]	97.57% [97.51%-97.63%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	98.12%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	9	1,229
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	8.40	
Estimated hazard ratio*	1.06	
95% credible interval for the hazard ratio**	[0.53, 1.77]	

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

^{**} The 95% credible interval, [0.53, 1.77], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 6% higher risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 47% reduced risk up to 77% increased risk.









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Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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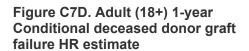
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	287	43,857
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [unadjusted for patient and donor characteristics]	97.55% 96.75%-98.35%]	97.12% [97.05%-97.19%]
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)	97.38%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	6	1,099
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	6.57	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.40, 1.68]	

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

^{**} The 95% credible interval, [0.40, 1.68], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 60% reduced risk up to 68% increased risk.



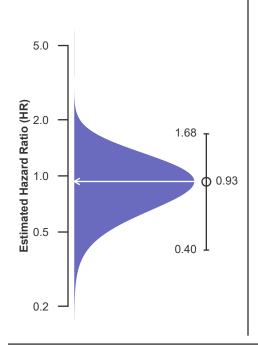
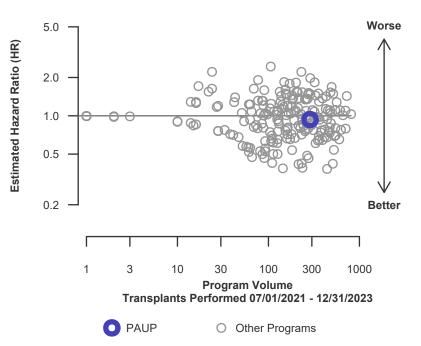


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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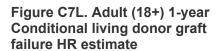
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	237	14,379
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [9] (unadjusted for patient and donor characteristics)	98.38% 97.18%-99.99%]	98.94% [98.86%-99.02%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.03%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	3	130
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	1.83	
Estimated hazard ratio*	1.31	
95% credible interval for the hazard ratio**	[0.42, 2.67]	

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

^{**} The 95% credible interval, [0.42, 2.67], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 31% higher risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 58% reduced risk up to 167% increased risk.



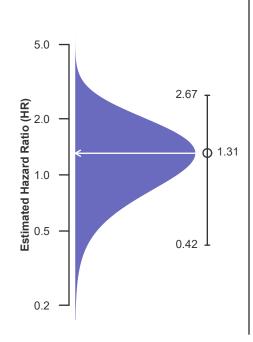
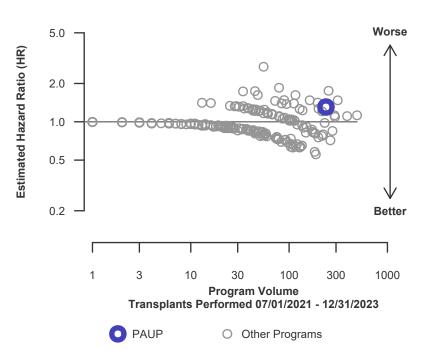


Figure C8L. Adult (18+) 1-year Conditional living donor graft failure HR program comparison





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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C. Transplant Information

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

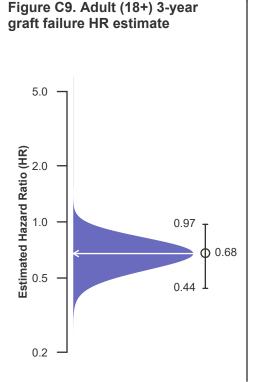
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

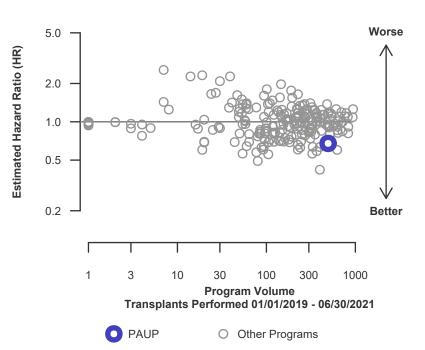
	PAUP	U.S.
Number of transplants evaluated	494	49,802
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	93.05% [90.20%-96.00%]	87.02% [86.64%-87.41%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.36%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	23	4,123
Number of expected graft failures (including deaths) during the first 3 years after transplant	34.97	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.44, 0.97]	

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

^{**} The 95% credible interval, [0.44, 0.97], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 32% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 56% reduced risk up to 3% reduced risk.









Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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C. Transplant Information

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

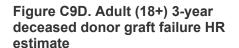
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	PAUP	U.S.
Number of transplants evaluated	312	36,011
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	89.98% [85.90%-94.26%]	84.76% [84.28%-85.25%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.62%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	22	3,587
Number of expected graft failures (including deaths) during the first 3 years after transplant	28.57	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.50, 1.13]	

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

^{**} The 95% credible interval, [0.50, 1.13], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 50% reduced risk up to 13% increased risk.



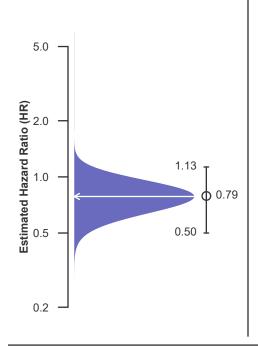
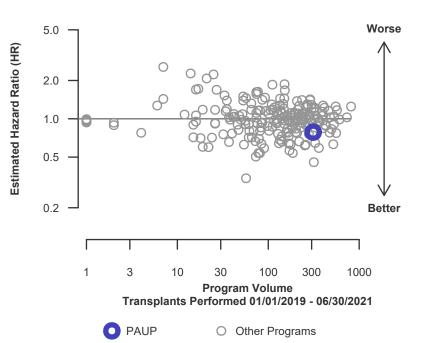


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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C. Transplant Information

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

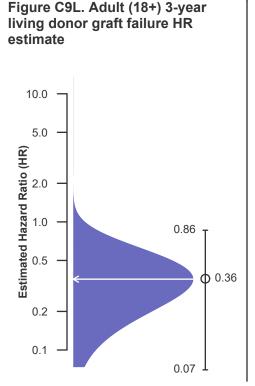
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

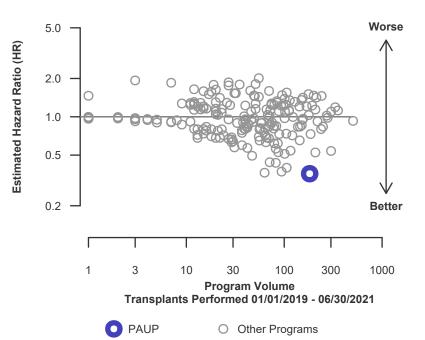
	PAUP	U.S.
Number of transplants evaluated	182	13,791
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	98.67% [96.10%-100.00%]	93.38% [92.81%-93.96%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	94.07%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	536
Number of expected graft failures (including deaths) during the first 3 years after transplant	6.40	
Estimated hazard ratio*	0.36	
95% credible interval for the hazard ratio**	[0.07, 0.86]	

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

^{**} The 95% credible interval, [0.07, 0.86], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 64% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 93% reduced risk up to 14% reduced risk.









Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

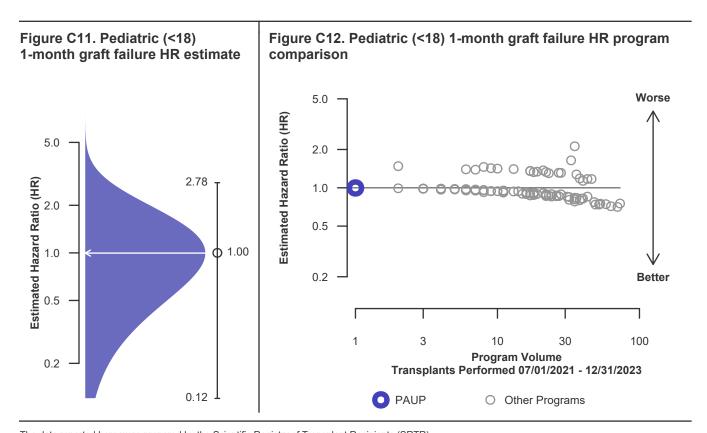
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Table C10. Pediatric (<18) 1-month survival with a functioning graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	PAUP	U.S.
Number of transplants evaluated	1	2,116
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.77% [98.30%-99.24%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.39%	
Number of observed graft failures (including deaths) during the first month after transplant	0	26
Number of expected graft failures (including deaths) during the first month after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

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

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





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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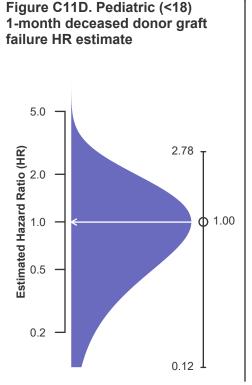
http://www.srtr.org

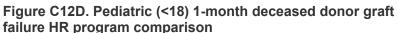
Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

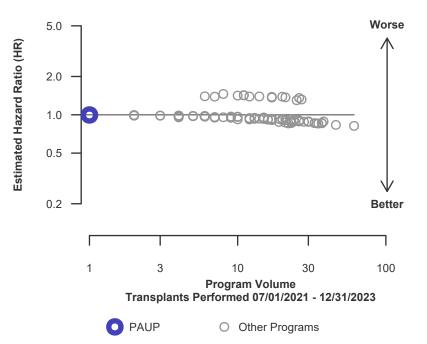
	PAUP	U.S.
Number of transplants evaluated	1	1,491
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.99% [98.49%-99.50%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.39%	
Number of observed graft failures (including deaths) during the first month after transplant	0	15
Number of expected graft failures (including deaths) during the first month after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

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

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









Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

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

This center did not perform any transplants relevant to this table during 07/01/2021-12/31/2023

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 07/01/2021-12/31/2023

This center did not perform any transplants relevant to this figure during 07/01/2021-12/31/2023



Center Code: PAUP Transplant Program (Organ): Kidney

Release Date: January 7, 2025

Based on Data Available: October 31, 2024

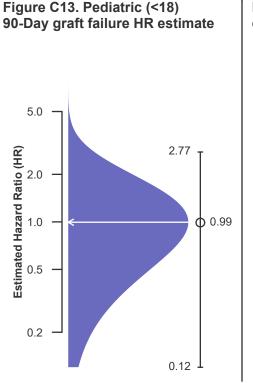
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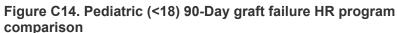
Table C11. Pediatric (<18) 90-Day survival with a functioning graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

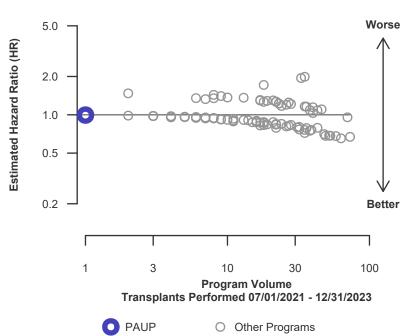
	PAUP	U.S.
Number of transplants evaluated	1	2,116
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.25% [97.69%-98.81%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.97%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	37
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

^{*} The hazard ratio provides an estimate of how Hospital of the University of Pennsylvania'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 PAUP'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 PAUP's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 177% increased risk.









Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

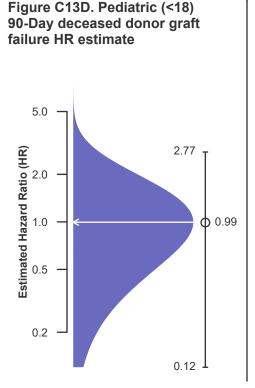
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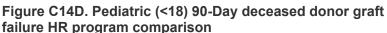
Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

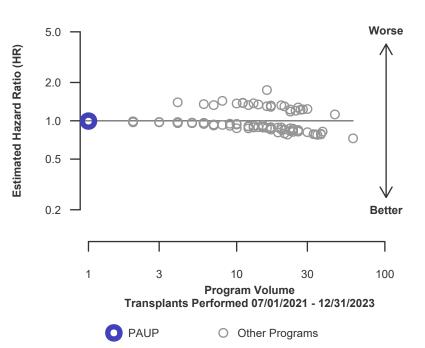
	PAUP	U.S.
Number of transplants evaluated	1	1,491
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.32% [97.67%-98.98%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.97%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	25
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

^{*} The hazard ratio provides an estimate of how Hospital of the University of Pennsylvania'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 PAUP'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 PAUP's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 177% increased risk.









Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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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 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2021-12/31/2023

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 07/01/2021-12/31/2023

This center did not perform any transplants relevant to this figure during 07/01/2021-12/31/2023



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

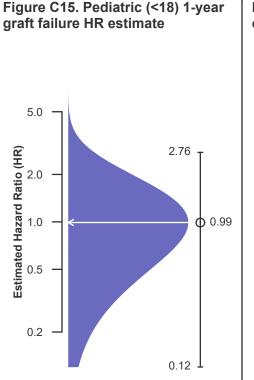
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Table C12. Pediatric (<18) 1-year survival with a functioning graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

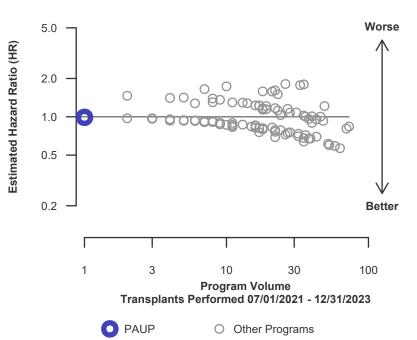
	PAUP	U.S.
Number of transplants evaluated	1	2,116
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.21% [96.49%-97.94%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.14%	
Number of observed graft failures (including deaths) during the first year after transplant	0	56
Number of expected graft failures (including deaths) during the first year after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

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

^{**} The 95% credible interval, [0.12, 2.76], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 176% increased risk.









Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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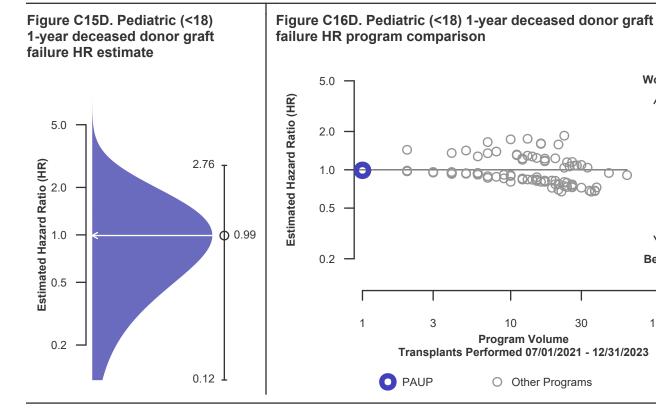
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	1	1,491
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.01% [96.12%-97.91%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.14%	
Number of observed graft failures (including deaths) during the first year after transplant	0	42
Number of expected graft failures (including deaths) during the first year after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

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

^{**} The 95% credible interval, [0.12, 2.76], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 176% increased risk.



Worse

Better

100

30



Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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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 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2021-12/31/2023

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 07/01/2021-12/31/2023

This center did not perform any transplants relevant to this figure during 07/01/2021-12/31/2023



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

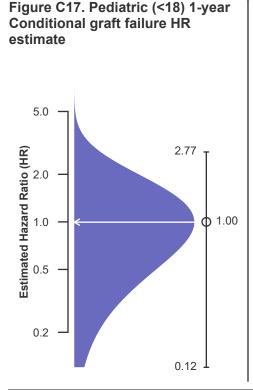
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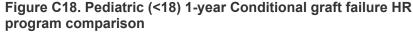
Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft Single organ transplants performed between 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

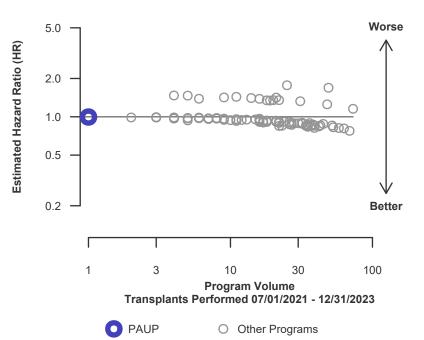
	PAUP	U.S.
Number of transplants evaluated	1	2,079
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10] (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	98.95% [98.77%-99.12%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.16%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	19
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

^{*} The hazard ratio provides an estimate of how Hospital of the University of Pennsylvania'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 PAUP'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 PAUP's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 177% increased risk.









Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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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 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

	PAUP	U.S.
Number of transplants evaluated	1	1,466
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	98.67% [98.41%-98.92%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.16%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	17
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

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

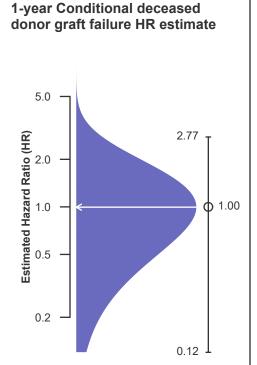
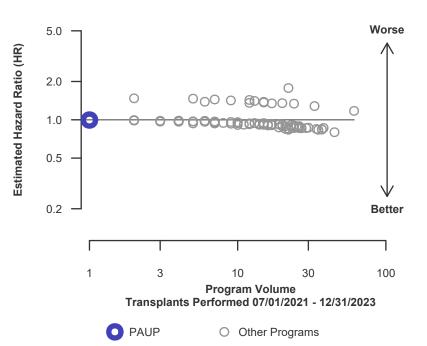


Figure C17D. Pediatric (<18)





^{**} The 95% credible interval, [0.12, 2.77], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 177% increased risk.



Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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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 07/01/2021 and 12/31/2023 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2021-12/31/2023

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 07/01/2021-12/31/2023

This center did not perform any transplants relevant to this figure during 07/01/2021-12/31/2023



Center Code: PAUP Transplant Program (Organ): Kidney

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

C. Transplant Information

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

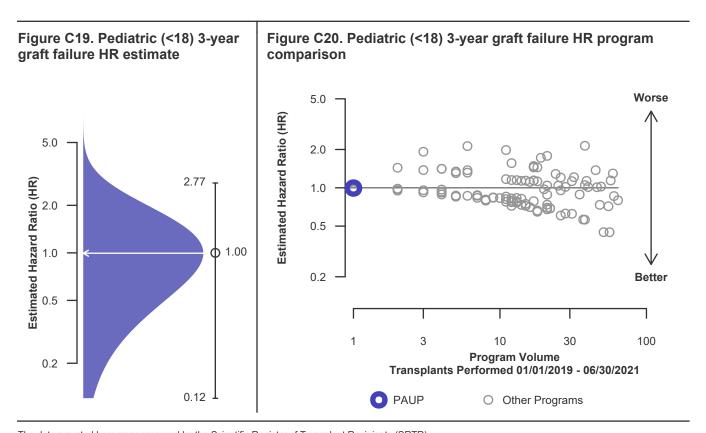
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	PAUP	U.S.
Number of transplants evaluated	1	1,996
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	93.07% [91.63%-94.53%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.50%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	88
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

^{*} The hazard ratio provides an estimate of how Hospital of the University of Pennsylvania'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 PAUP'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 PAUP's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 177% increased risk.





Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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C. Transplant Information

Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 01/01/2019-06/30/2021

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 01/01/2019-06/30/2021

This center did not perform any transplants relevant to this figure during 01/01/2019-06/30/2021



Center Code: PAUP Transplant Program (Organ): Kidney

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

C. Transplant Information

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

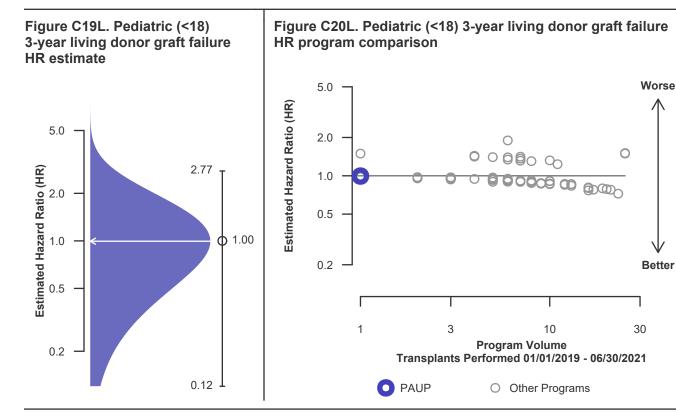
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	PAUP	U.S.
Number of transplants evaluated	1	609
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.49% [93.39%-97.64%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.50%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	18
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

^{*} The hazard ratio provides an estimate of how Hospital of the University of Pennsylvania'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 PAUP'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 PAUP's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but PAUP's performance could plausibly range from 88% reduced risk up to 177% increased risk.





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

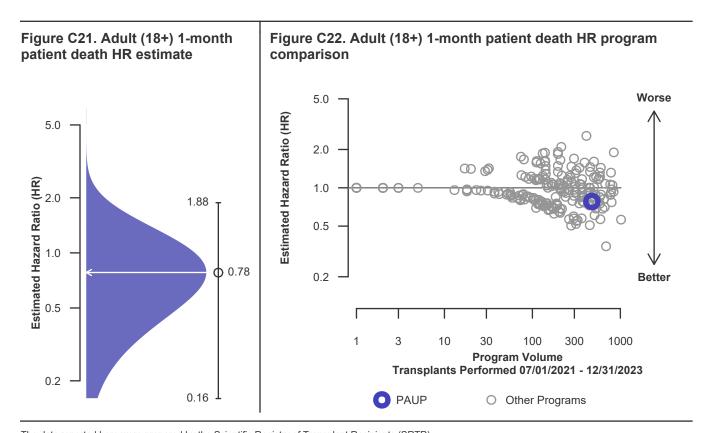
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Table C15. Adult (18+) 1-month patient survival
Single organ transplants performed between 07/01/2021 and 12/31/2023
Retransplants excluded

	PAUP	U.S.
Number of transplants evaluated	475	53,688
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.79% [99.38%-100.00%]	99.49% [99.43%-99.55%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.61%	
Number of observed deaths during the first month after transplant	1	272
Number of expected deaths during the first month after transplant	1.84	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.16, 1.88]	

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

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





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

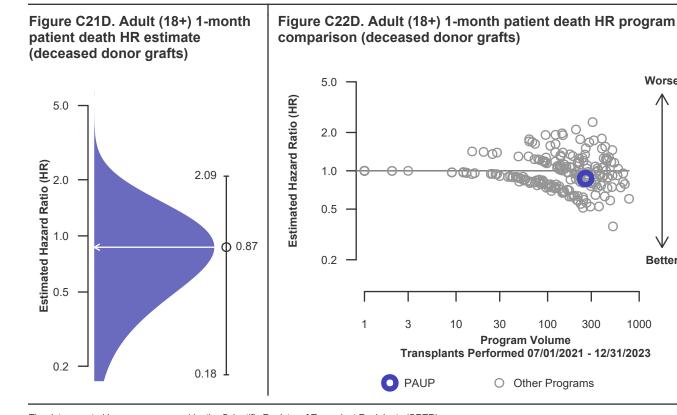
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	260	40,446
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.62% [98.87%-100.00%]	99.39% [99.32%-99.47%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.44%	
Number of observed deaths during the first month after transplant	1	246
Number of expected deaths during the first month after transplant	1.45	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.18, 2.09]	

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

^{**} The 95% credible interval, [0.18, 2.09], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 13% lower risk of patient death compared to an average program, but PAUP's performance could plausibly range from 82% reduced risk up to 109% increased risk.



Worse

Better

1000



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

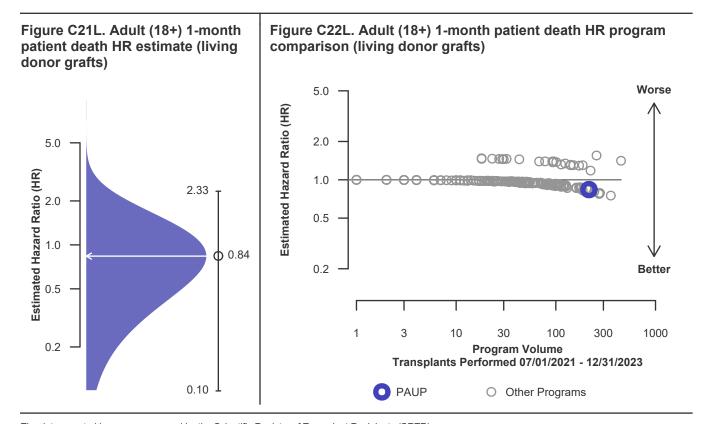
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Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	PAUP	U.S.
Number of transplants evaluated	215	13,242
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.80% [99.73%-99.88%]
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	26
Number of expected deaths during the first month after transplant	0.39	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.10, 2.33]	

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

^{**} The 95% credible interval, [0.10, 2.33], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 16% lower risk of patient death compared to an average program, but PAUP's performance could plausibly range from 90% reduced risk up to 133% increased risk.





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

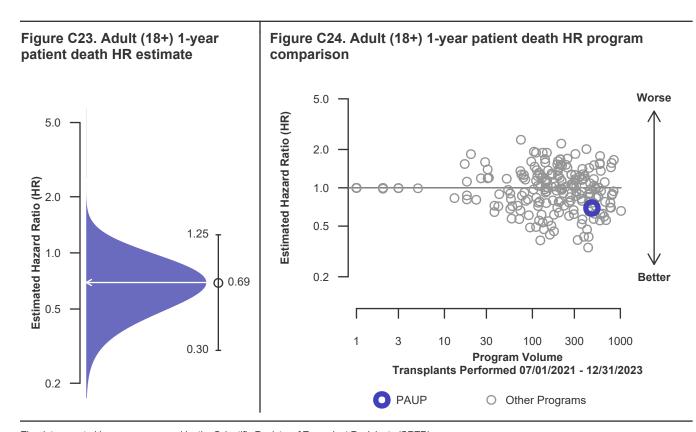
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Table C16. Adult (18+) 1-year patient survival
Single organ transplants performed between 07/01/2021 and 12/31/2023
Retransplants excluded

	PAUP	U.S.
Number of transplants evaluated	475	53,688
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	98.45% [97.22%-99.70%]	97.14% [96.99%-97.29%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.80%	
Number of observed deaths during the first year after transplant	6	1,400
Number of expected deaths during the first year after transplant	9.53	
Estimated hazard ratio*	0.69	
95% credible interval for the hazard ratio**	[0.30, 1.25]	

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

^{**} The 95% credible interval, [0.30, 1.25], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 31% lower risk of patient death compared to an average program, but PAUP's performance could plausibly range from 70% reduced risk up to 25% increased risk.





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

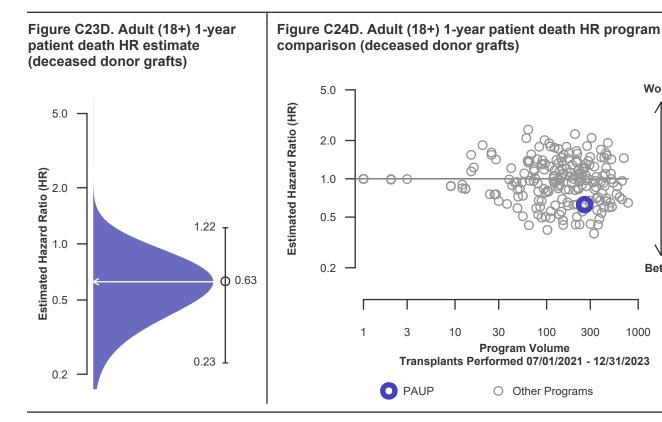
C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	260	40,446
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	98.25% [96.56%-99.98%]	96.59% [96.40%-96.78%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.86%	
Number of observed deaths during the first year after transplant	4	1,261
Number of expected deaths during the first year after transplant	7.58	
Estimated hazard ratio*	0.63	
95% credible interval for the hazard ratio**	[0.23, 1.22]	

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

^{**} The 95% credible interval, [0.23, 1.22], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 37% lower risk of patient death compared to an average program, but PAUP's performance could plausibly range from 77% reduced risk up to 22% increased risk.



Worse

Better



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

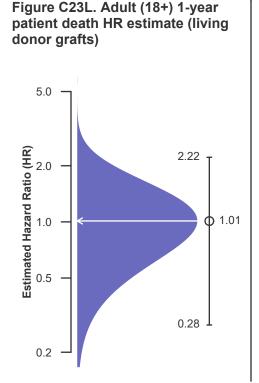
Based on Data Available: October 31, 2024

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

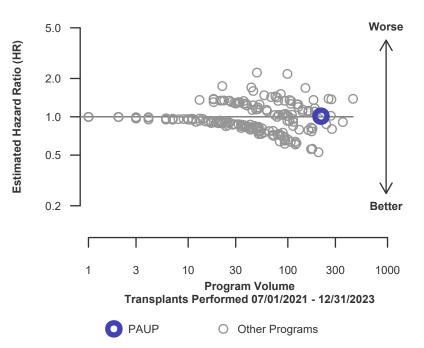
Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	PAUP	U.S.
Number of transplants evaluated	215	13,242
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	98.68% [96.87%-100.00%]	98.83% [98.64%-99.03%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	98.92%	
Number of observed deaths during the first year after transplant	2	139
Number of expected deaths during the first year after transplant	1.95	
Estimated hazard ratio*	1.01	
95% credible interval for the hazard ratio**	[0.28, 2.22]	

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







^{**} The 95% credible interval, [0.28, 2.22], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 1% higher risk of patient death compared to an average program, but PAUP's performance could plausibly range from 72% reduced risk up to 122% increased risk.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

http://www.srtr.org

C. Transplant Information

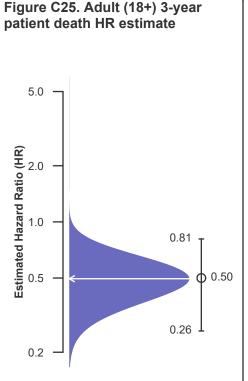
Table C17. Adult (18+) 3-year patient survival

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

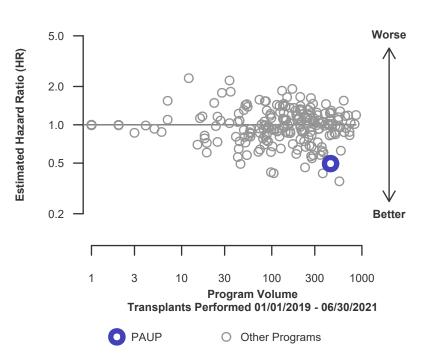
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	PAUP	U.S.
Number of transplants evaluated	449	44,410
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.07% [93.64%-98.57%]	90.83% [90.47%-91.19%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.44%	
Number of observed deaths during the first 3 years after transplant	10	2,474
Number of expected deaths during the first 3 years after transplant	22.21	
Estimated hazard ratio*	0.50	
95% credible interval for the hazard ratio**	[0.26, 0.81]	

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







^{**} The 95% credible interval, [0.26, 0.81], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 50% lower risk of patient death compared to an average program, but PAUP's performance could plausibly range from 74% reduced risk up to 19% reduced risk.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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

C. Transplant Information

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

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

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

	PAUP	U.S.
Number of transplants evaluated	281	31,874
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	94.69% [91.27%-98.24%]	89.12% [88.67%-89.57%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.13%	
Number of observed deaths during the first 3 years after transplant	9	2,166
Number of expected deaths during the first 3 years after transplant	18.68	
Estimated hazard ratio*	0.53	
95% credible interval for the hazard ratio**	[0.27, 0.89]	

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

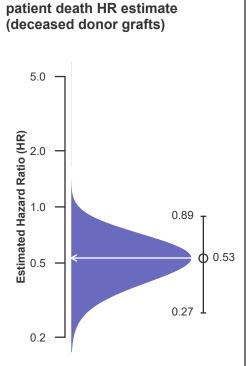
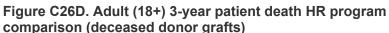
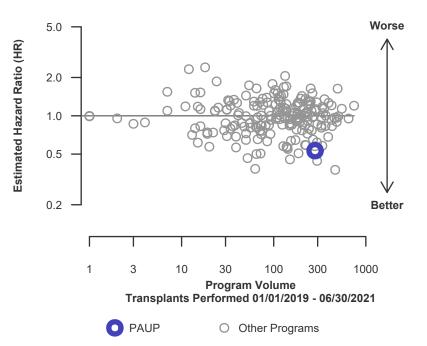


Figure C25D. Adult (18+) 3-year





^{**} The 95% credible interval, [0.27, 0.89], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 47% lower risk of patient death compared to an average program, but PAUP's performance could plausibly range from 73% reduced risk up to 11% reduced risk.



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

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

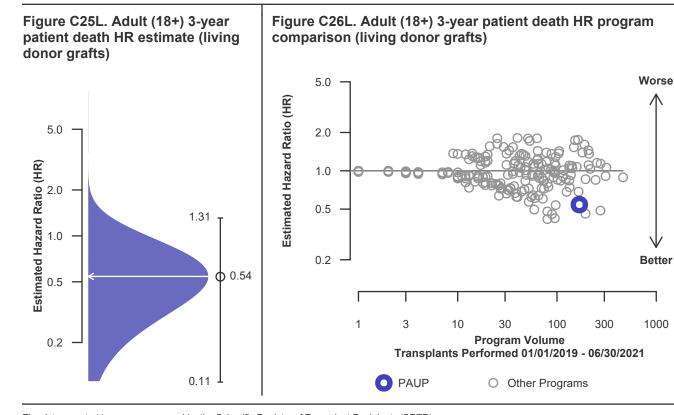
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	PAUP	U.S.
Number of transplants evaluated	168	12,536
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	98.59% [95.89%-100.00%]	95.54% [95.03%-96.05%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	96.30%	
Number of observed deaths during the first 3 years after transplant	1	308
Number of expected deaths during the first 3 years after transplant	3.53	
Estimated hazard ratio*	0.54	
95% credible interval for the hazard ratio**	[0.11, 1.31]	

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

^{**} The 95% credible interval, [0.11, 1.31], indicates the location of PAUP's true hazard ratio with 95% probability. The best estimate is 46% lower risk of patient death compared to an average program, but PAUP's performance could plausibly range from 89% reduced risk up to 31% increased risk.





Center Code: PAUP Transplant Program (Organ): Kidney

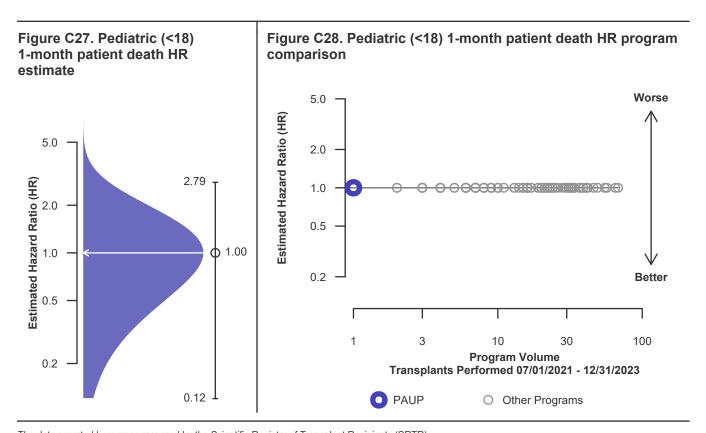
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Table C18. Pediatric (<18) 1-month patient survival
Single organ transplants performed between 07/01/2021 and 12/31/2023
Retransplants excluded

	PAUP	U.S.
Number of transplants evaluated	1	1,939
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	100.00% [100.00%-100.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

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

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





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Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

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

	PAUP	U.S.
Number of transplants evaluated	1	1,350
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	100.00% [100.00%-100.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

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

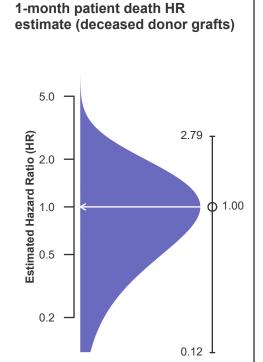
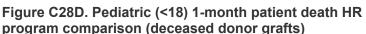
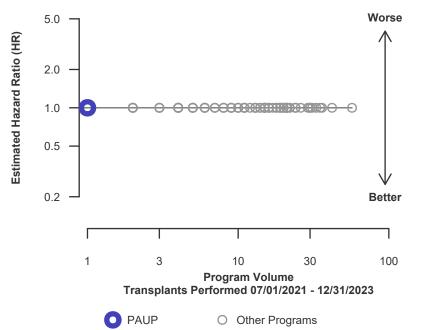


Figure C27D. Pediatric (<18)





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



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C. Transplant Information

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

This center did not perform any transplants relevant to this table during 07/01/2021-12/31/2023

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 07/01/2021-12/31/2023

This center did not perform any transplants relevant to this figure during 07/01/2021-12/31/2023



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

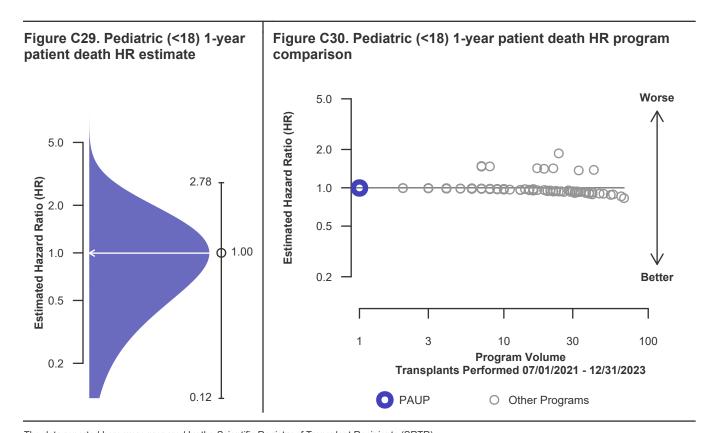
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Table C19. Pediatric (<18) 1-year patient survival
Single organ transplants performed between 07/01/2021 and 12/31/2023
Retransplants excluded

	PAUP	U.S.
Number of transplants evaluated	1	1,939
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.44% [99.10%-99.79%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.28%	
Number of observed deaths during the first year after transplant	0	10
Number of expected deaths during the first year after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

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

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





Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

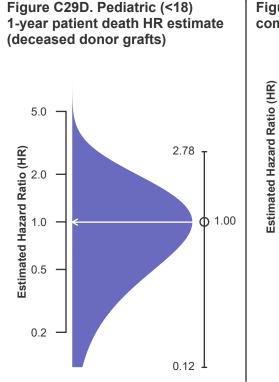
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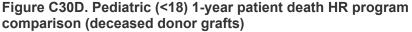
http://www.srtr.org

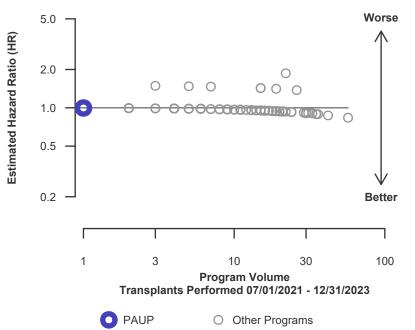
Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2021 and 12/31/2023 Retransplants excluded

	PAUP	U.S.
Number of transplants evaluated	1	1,350
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.28% [98.81%-99.75%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.28%	
Number of observed deaths during the first year after transplant	0	9
Number of expected deaths during the first year after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

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







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



Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

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

This center did not perform any transplants relevant to this table during 07/01/2021-12/31/2023

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 07/01/2021-12/31/2023

This center did not perform any transplants relevant to this figure during 07/01/2021-12/31/2023



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

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

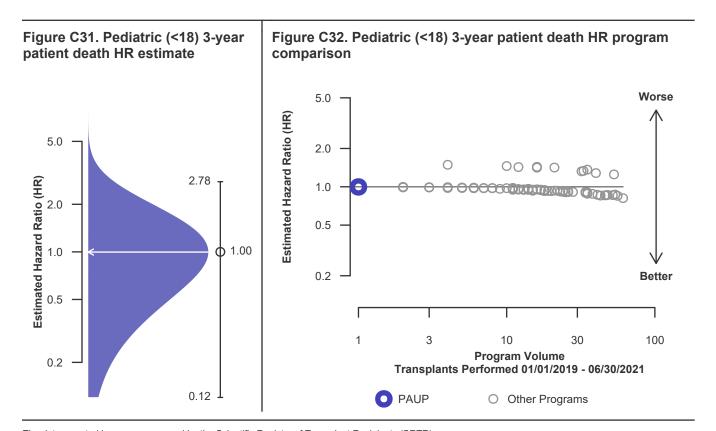
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	PAUP	U.S.
Number of transplants evaluated	1	1,833
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.03% [98.49%-99.57%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.66%	
Number of observed deaths during the first 3 years after transplant	0	13
Number of expected deaths during the first 3 years after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

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

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





Center Code: PAUP Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021
Retransplants excluded
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 01/01/2019-06/30/2021

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 01/01/2019-06/30/2021

This center did not perform any transplants relevant to this figure during 01/01/2019-06/30/2021



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

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

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

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

	PAUP	U.S.
Number of transplants evaluated	1	571
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.65% [97.56%-99.76%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.66%	
Number of observed deaths during the first 3 years after transplant	0	6
Number of expected deaths during the first 3 years after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

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

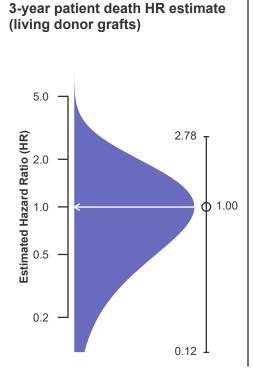
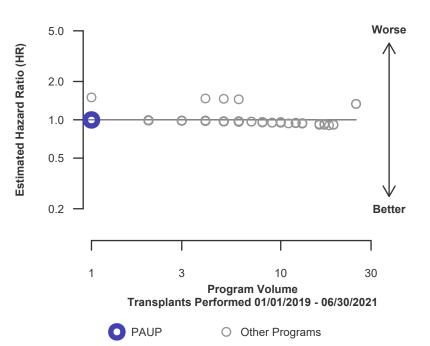


Figure C31L. Pediatric (<18)





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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

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C. Transplant Information

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

Adult (18+) Transplants

First-Year Outcomes

Transplants Transplant Type Performed		Performed Graft Failures		Estimated Kidney Graft Survival		
	PAUP-TX1	USA	PAUP-TX1	USA	PAUP-TX1	USA
Kidney-Heart	5	973	0	145	100.0%	85.1%
Kidney-Liver	25	1,938	1	228	96.0%	88.2%
Kidney-Pancreas	39	1,992	1	92	97.4%	95.4%

Pediatric (<18) Transplants

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

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

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Transplants Performed Patient Deaths			•			•		
	PAUP-TX1	USA	PAUP-TX1	USA	PAUP-TX1	USA			
Kidney-Heart	5	973	0	101	100.0%	89.6%			
Kidney-Liver	25	1,938	1	174	96.0%	91.0%			
Kidney-Pancreas	39	1,992	1	67	97.4%	96.6%			

Pediatric (<18) Transplants

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



Center Code: PAUP

Transplant Program (Organ): Kidney Release Date: January 7, 2025

Based on Data Available: October 31, 2024

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D. Living Donor Information

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

		This Center		United States		
Living Donor Follow-Up	07/2021- 06/2022	07/2022- 06/2023	07/2023- 12/2023	07/2021- 06/2022	07/2022- 06/2023	07/2023- 12/2023
Number of Living Donors	84	102	51	5,867	6,074	3,214
6-Month Follow-Up Donors due for follow-up	84	102	43	5,866	6,073	2,652
Timely clinical data	84 100.0%	98 96.1%	43 100.0%	5,035 85.8%	4,967 81.8%	2,245 84.7%
Timely lab data	84 100.0%	97 95.1%	43 100.0%	4,799 81.8%	4,845 79.8%	2,175 82.0%
12-Month Follow-Up Donors due for follow-up	84	96		5,866	5,484	
Timely clinical data	82 97.6%	84 87.5%		4,581 78.1%	4,261 77.7%	
Timely lab data	79 94.0%	84 87.5%		4,383 74.7%	4,025 73.4%	
24-Month Follow-Up Donors due for follow-up	76			5,325		
Timely clinical data	65 85.5%			3,737 70.2%		
Timely lab data	65 85.5%			3,521 66.1%		

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