



COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

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

Modifications for the July 2023 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the July 2023 reporting cycle. These changes will remain in force beyond the July 2023 reporting cycle, unless otherwise amended:

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

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 1/1/2020-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-6/30/2022, follow-up through 12/31/2022.

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2017-12/31/2019; follow-up through 3/12/2020.

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

Days after listing (and before transplant) between 1/1/2021 and 12/31/2022.



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

Candidates on the waitlist 1/1/2021-12/31/2022.

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

Evaluation period: 1/1/2021-12/31/2022.

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

Offers received 1/1/2022-12/31/2022.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 6, 2023. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for January 2024.

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



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This report contains a wide range of useful information about the liver transplant program at University of Pittsburgh Medical Center. The report has three main sections:

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

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

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

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

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



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 106.2 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 01/01/2017 and 06/30/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.1 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2022 to calculate a particular percentile of transplant times.

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



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of offers.

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

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

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

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

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

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



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A. Program Summary

Figure A1. Waiting list and transplant activity

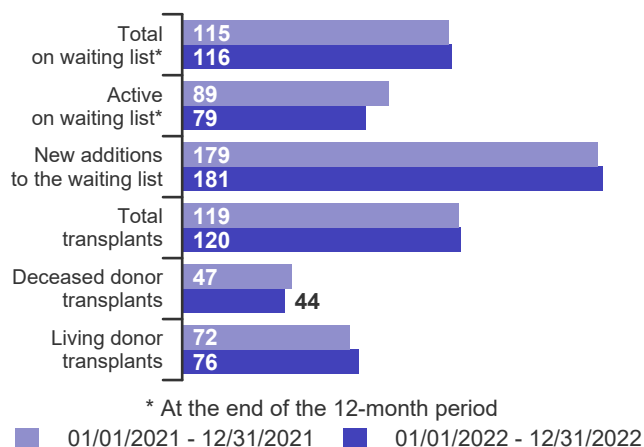


Table A1. Census of transplant recipients

Recipients	01/01/2021-12/31/2021	01/01/2022-12/31/2022
Transplanted at this center	119	120
Followed by this center*	1,229	1,214
...transplanted at this program	1,167	1,149
...transplanted elsewhere	62	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
01/01/2021 - 12/31/2022

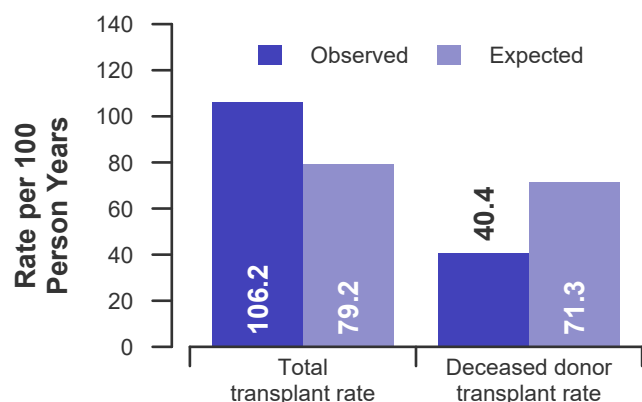


Figure A3. Pre-transplant mortality rates
01/01/2021 - 12/31/2022

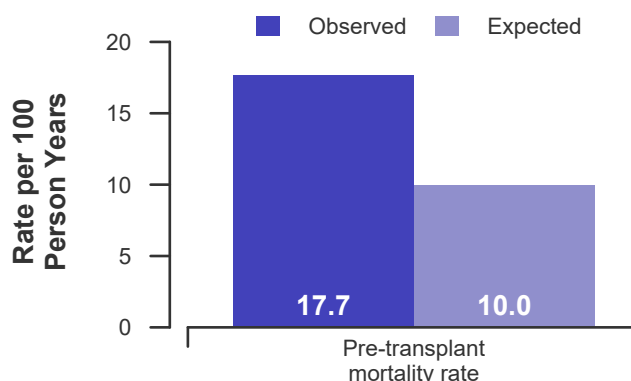


Figure A4. First-year adult graft and patient survival:
01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022

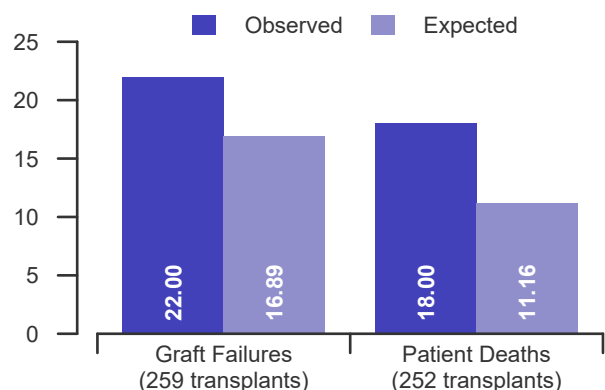
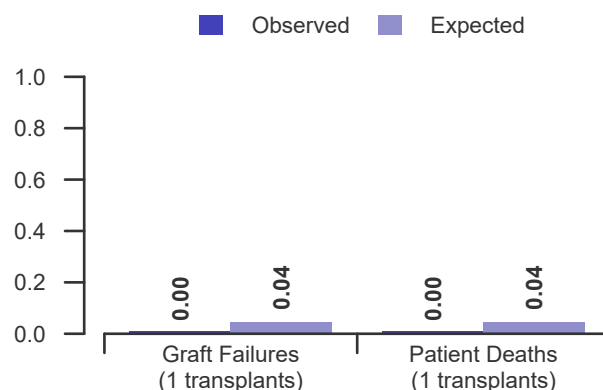


Figure A5. First-year pediatric graft & patient survival:
01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022





B. Waiting List Information

Table B1. Waiting list activity summary: 01/01/2021 - 12/31/2022

Waiting List Registrations	Counts for this center		Activity for 01/01/2022 to 12/31/2022 as percent of registrants on waiting list on 01/01/2022		
	01/01/2021-12/31/2021	01/01/2022-12/31/2022	This Center (%)	OPTN Region (%)	U.S. (%)
On waiting list at start	105	115	100.0	100.0	100.0
Additions					
New listings at this center	179	181	157.4	94.4	116.1
Removals					
Transferred to another center	0	0	0.0	0.8	1.0
Received living donor transplant*	72	76	66.1	8.7	5.1
Received deceased donor transplant*	47	44	38.3	53.0	76.1
Died	12	16	13.9	9.4	8.9
Transplanted at another center	4	4	3.5	2.9	2.8
Deteriorated	12	18	15.7	9.9	9.6
Recovered	6	4	3.5	6.1	9.1
Other reasons	16	18	15.7	10.6	9.8
On waiting list at end of period	115	116	100.9	93.0	93.7

* 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.



B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidates**Candidates registered on the waiting list between 01/01/2022 and 12/31/2022**

Demographic Characteristic	New Waiting List Registrations 01/01/2022 to 12/31/2022 (%)			All Waiting List Registrations on 12/31/2022 (%)		
	This Center (N=181)	OPTN Region (N=1,506)	U.S. (N=13,611)	This Center (N=116)	OPTN Region (N=1,484)	U.S. (N=10,983)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	96.1	74.5	68.3	94.8	74.9	66.2
African-American	1.7	11.7	6.7	1.7	11.7	6.9
Hispanic/Latino	1.1	8.2	18.7	1.7	8.2	20.0
Asian	1.1	4.9	4.4	1.7	4.4	5.2
Other	0.0	0.7	1.9	0.0	0.7	1.7
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	0.0	2.8	2.4	0.0	1.7	1.4
2-11 years	0.0	2.0	1.7	0.0	1.4	1.4
12-17 years	0.6	1.3	1.4	0.0	1.1	1.2
18-34 years	6.1	6.8	6.9	6.0	6.7	6.7
35-49 years	25.4	21.0	21.4	19.0	18.3	19.3
50-64 years	40.3	44.7	44.8	44.8	51.0	49.2
65-69 years	18.2	15.5	15.5	19.8	15.2	15.7
70+ years	9.4	6.0	6.0	10.3	4.5	5.1
Gender (%)						
Male	68.0	63.7	61.1	65.5	61.3	60.7
Female	32.0	36.3	38.9	34.5	38.7	39.3

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



B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates

Candidates registered on the waiting list between 01/01/2022 and 12/31/2022

Medical Characteristic	New Waiting List Registrations 01/01/2022 to 12/31/2022 (%)			All Waiting List Registrations on 12/31/2022 (%)		
	This Center (N=181)	OPTN Region (N=1,506)	U.S. (N=13,611)	This Center (N=116)	OPTN Region (N=1,484)	U.S. (N=10,983)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
O	42.5	43.5	46.9	49.1	46.1	49.8
A	38.7	39.6	37.3	37.9	39.2	38.4
B	14.4	13.7	11.8	12.9	12.4	9.8
AB	4.4	3.3	3.9	0.0	2.3	2.0
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	3.9	4.2	4.2	6.0	3.3	3.4
No	96.1	95.8	95.8	94.0	96.7	96.6
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Acute Hepatic Necrosis	1.7	4.5	3.7	0.9	1.5	1.5
Non-Cholestatic Cirrhosis	42.5	47.7	54.1	54.3	60.6	61.6
Cholestatic Liver Disease/Cirrhosis	15.5	7.2	6.3	8.6	7.4	7.6
Biliary Atresia	0.0	2.2	2.0	0.0	1.5	1.9
Metabolic Diseases	0.6	2.2	1.8	0.0	2.2	1.5
Malignant Neoplasms	22.7	13.8	10.5	17.2	12.5	11.3
Other	17.1	22.3	21.3	19.0	14.2	14.4
Missing	0.0	0.1	0.3	0.0	0.1	0.3
Medical Urgency Status/MELD/PELD at Listing (%)*						
Status 1A	0.6	3.1	2.9	0.0	0.3	0.3
Status 1B	0.0	0.4	0.4	0.0	0.1	0.1
Status 2A	0.0	0.0	0.0	0.0	0.0	0.0
Status 2B	0.0	0.0	0.0	0.0	0.1	0.0
Status 3	0.0	0.0	0.0	0.0	0.0	0.2
MELD 6-10	21.5	16.1	14.3	23.3	33.2	27.1
MELD 11-14	10.5	10.4	11.5	19.8	20.1	21.8
MELD 15-20	26.5	19.5	20.7	37.9	23.6	27.2
MELD 21-30	19.9	21.2	24.5	14.7	12.2	14.1
MELD 31-40	4.4	14.4	13.6	0.0	1.3	1.0
PELD less than or equal to 10	0.0	2.1	1.6	0.0	2.0	1.8
PELD 11-14	0.0	0.5	0.3	0.0	0.3	0.2
PELD 15-20	0.0	0.3	0.4	0.0	0.1	0.2
PELD 21-30	0.0	0.4	0.3	0.0	0.1	0.1
PELD 31 or greater	0.0	0.2	0.2	0.0	0.0	0.0
Temporarily Inactive	16.0	8.1	5.3	4.3	6.4	5.9

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



B. Waiting List Information

Table B4. Transplant rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	105	198	1,630	12,165
Person Years**	225.0	414.5	3,157.8	23,323.3
Removals for Transplant	239	419	1,966	18,762
Adult (18+) Candidates				
Count on waiting list at start*	105	173	1,567	11,763
Person Years**	225.0	374.4	3,039.3	22,500.3
Removals for transplant	238	368	1,818	17,712
Pediatric (<18) Candidates				
Count on waiting list at start*	0	25	63	402
Person Years**	0.0	40.1	118.5	823.0
Removals for transplant	1	51	148	1,050

* 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 January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.

Figure B1. Observed and expected transplant rates: 01/01/2021 - 12/31/2022

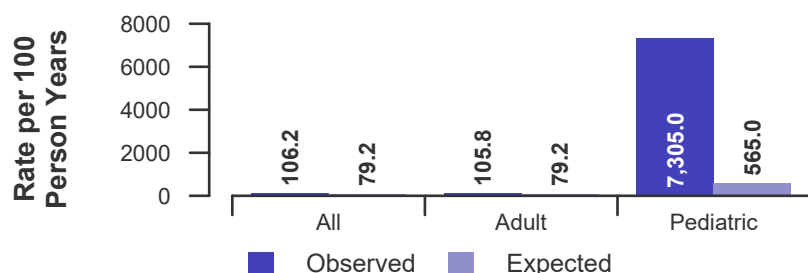


Figure B2. Transplant rate ratio estimate

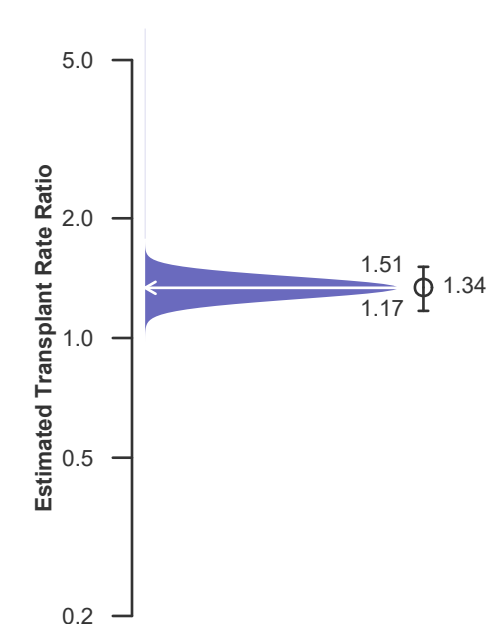
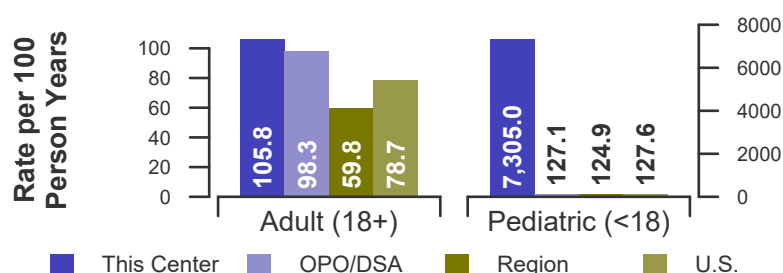


Figure B3. Observed adult (18+) and pediatric (<18) transplant rates: 01/01/2021 - 12/31/2022





B. Waiting List Information

Table B4D. Deceased donor transplant rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	105	198	1,630	12,165
Person Years**	225.0	414.5	3,157.8	23,323.3
Removals for Transplant	91	254	1,689	17,590
Adult (18+) Candidates				
Count on waiting list at start*	105	173	1,567	11,763
Person Years**	225.0	374.4	3,039.3	22,500.3
Removals for transplant	91	216	1,579	16,705
Pediatric (<18) Candidates				
Count on waiting list at start*	0	25	63	402
Person Years**	0.0	40.1	118.5	823.0
Removals for transplant	0	38	110	885

* 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 January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.

Figure B1D. Observed and expected deceased donor transplant rates: 01/01/2021 - 12/31/2022

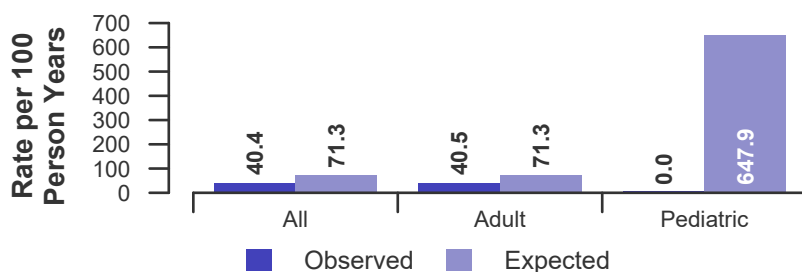


Figure B2D. Deceased donor transplant rate ratio estimate

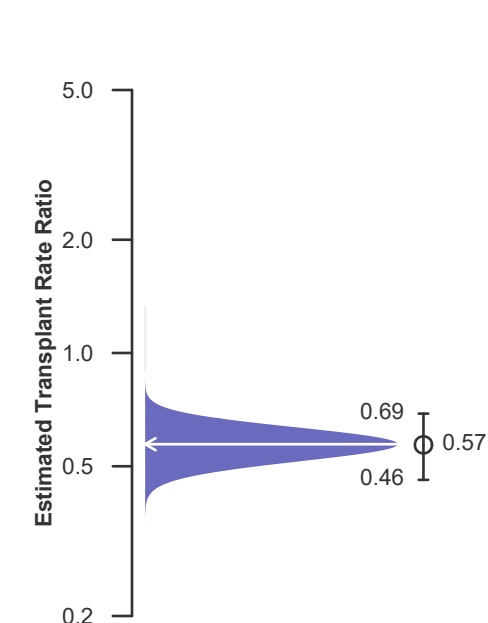
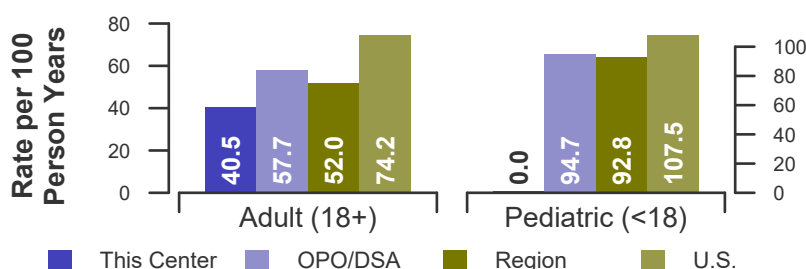


Figure B3D. Observed adult (18+) and pediatric (<18) deceased donor transplant rates: 01/01/2021 - 12/31/2022





B. Waiting List Information

Table B5. Pre-transplant mortality rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	105	198	1,630	12,165
Person Years**	271.9	491.2	3,623.1	27,268.0
Number of deaths	48	67	446	3,414
Adult (18+) Candidates				
Count on waiting list at start*	105	173	1,567	11,763
Person Years**	271.9	446.8	3,497.2	26,355.0
Number of deaths	48	66	443	3,364
Pediatric (<18) Candidates				
Count on waiting list at start*	0	25	63	402
Person Years**	0.0	44.4	125.9	913.0
Number of deaths	0	1	3	50

* 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 January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or December 31.

Figure B4. Observed and expected pre-transplant mortality rates: 01/01/2021 - 12/31/2022

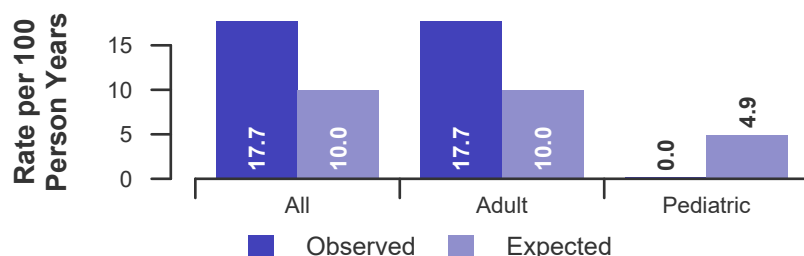


Figure B5. Pre-transplant mortality rate ratio estimate

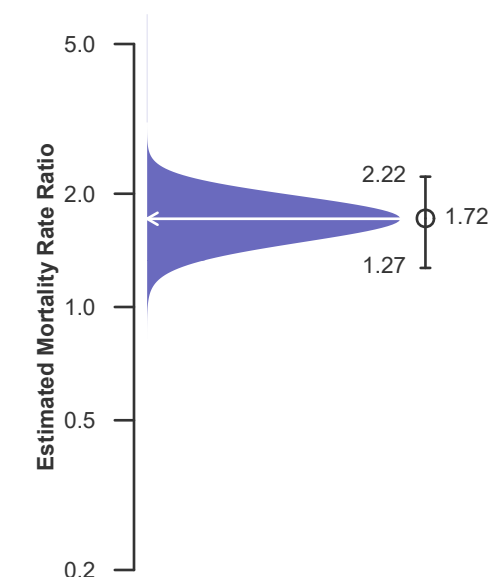
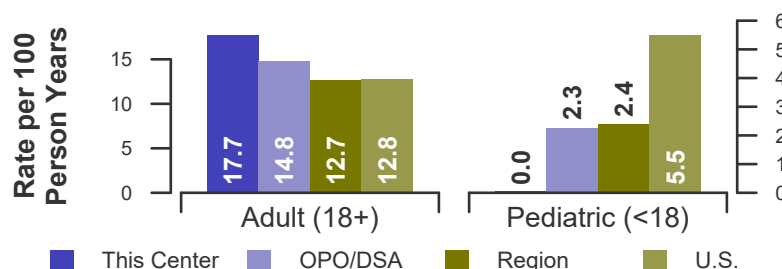


Figure B6. Observed adult (18+) and pediatric (<18) pre-transplant mortality rates: 01/01/2021 - 12/31/2022





B. Waiting List Information

Table B6. Rates of patient mortality after listing: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	978	1,813	9,091	78,092
Person-years*	1,327.4	2,424.1	12,095.6	104,795.6
Number of Deaths	105	178	917	7,187
Adult (18+) Patients				
Count at risk during the evaluation period	977	1,626	8,503	73,681
Person-years*	1,326.9	2,172.3	11,293.2	98,781.2
Number of Deaths	105	174	901	7,039
Pediatric (<18) Patients				
Count at risk during the evaluation period	1	187	588	4,411
Person-years*	0.5	251.7	802.5	6,014.4
Number of Deaths	0	4	16	148

* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2021, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 2022.

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

Figure B7. Observed and expected rates of patient mortality after listing: 01/01/2021 - 12/31/2022

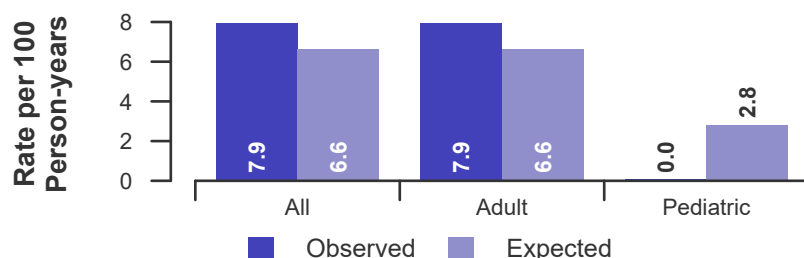


Figure B8. HR estimate of patient mortality after listing

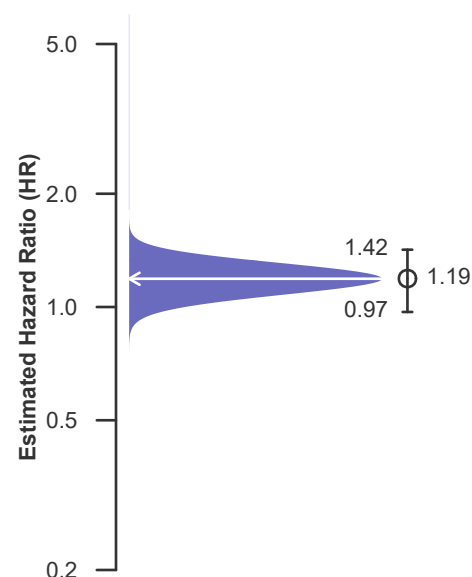
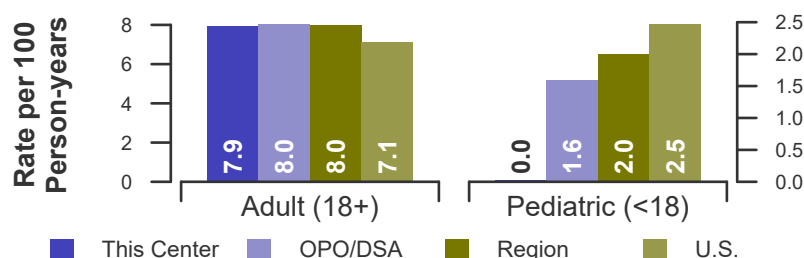


Figure B9. Observed adult (18+) and pediatric (<18) rates of patient mortality after listing: 01/01/2021 - 12/31/2022





B. Waiting List Information

Table B7. Waiting list candidate status after listing
Candidates registered on waiting list between 07/01/2020 and 06/30/2021

Waiting list status (survival status)	This Center (N=175)			U.S. (N=13,827)		
	Months Since Listing			Months Since Listing		
	6	12	18	6	12	18
Alive on waiting list (%)	35.4	12.0	9.1	38.4	22.8	15.4
Died on the waiting list without transplant (%)	4.6	7.4	7.4	4.3	5.5	6.2
Removed without transplant (%):						
Condition worsened (status unknown)	1.1	2.9	3.4	4.0	5.5	6.4
Condition improved (status unknown)	0.6	2.9	2.9	1.4	2.4	3.4
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.3	0.5
Other	1.1	5.1	6.3	1.8	2.9	4.1
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	35.4	38.3	26.3	2.5	3.1	2.0
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.1
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.6	2.3	2.3	0.1	0.1	0.2
Status Yet Unknown**	0.0	1.1	14.3	0.0	0.2	1.4
Transplant (deceased donor) (%):						
Functioning (alive)	17.7	21.7	16.0	43.3	46.6	33.0
Failed-Retransplanted (alive)	0.0	0.0	0.6	0.4	0.6	0.7
Failed-alive not retransplanted	0.0	0.6	0.0	0.0	0.0	0.0
Died	1.7	1.7	2.3	1.9	3.0	4.2
Status Yet Unknown*	1.7	4.0	9.1	1.6	6.3	21.9
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.4	0.6
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	6.9	11.4	12.0	6.2	8.7	10.5
Total % known died or removed as unstable	8.0	14.3	15.4	10.3	14.2	16.9
Total % removed for transplant	57.1	69.7	70.9	49.8	60.0	63.5
Total % with known functioning transplant (alive)	53.1	60.0	42.3	45.8	49.7	35.0

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



B. Waiting List Information

Table B7S1. Medical urgency status 1 candidate status after listing**Candidates registered on the waiting list between 07/01/2020 and 06/30/2021**

Waiting list status (survival status)	This Center (N=3)			U.S. (N=447)		
	Months Since listing			Months Since listing		
	6	12	18	6	12	18
Alive on waiting list (%)	0.0	0.0	0.0	2.5	1.6	0.9
Died on the waiting list without transplant (%)	0.0	0.0	0.0	5.4	5.4	5.4
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	7.2	7.2	7.2
Condition improved (status unknown)	0.0	0.0	0.0	15.9	16.8	17.4
Refused transplant (status unknown)	0.0	0.0	0.0	0.4	0.4	0.4
Other	0.0	0.0	0.0	0.7	0.7	0.7
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	1.3	1.3	1.3
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.2	0.2	0.2
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.0	0.0
Transplant (deceased donor) (%):						
Functioning (alive)	66.7	66.7	66.7	56.4	45.0	32.7
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.9	0.9	0.9
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	33.3	33.3	33.3	6.7	8.5	8.9
Status Yet Unknown*	0.0	0.0	0.0	2.0	11.6	23.5
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.4	0.4
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	33.3	33.3	33.3	12.3	14.1	14.5
Total % known died or removed as unstable	33.3	33.3	33.3	19.5	21.3	21.7
Total % removed for transplant	100.0	100.0	100.0	67.6	67.6	67.6
Total % with known functioning transplant (alive)	66.7	66.7	66.7	57.7	46.3	34.0

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



B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics
Candidates registered on the waiting list between 01/01/2017 and 12/31/2019

Characteristic	N	Percent transplanted at time periods since listing									
		This Center					United States				
		30 day	1 year	2 years	3 years		30 day	1 year	2 years	3 years	
All	269	19.3	47.6	50.2	52.4	38,721	21.2	51.2	57.7	59.5	
Ethnicity/Race*											
White	246	19.9	47.6	50.4	52.8	26,571	21.2	52.0	58.1	59.7	
African-American	19	10.5	52.6	52.6	52.6	3,169	24.1	54.8	61.3	63.0	
Hispanic/Latino	2	0.0	0.0	0.0	0.0	6,476	19.8	47.8	55.4	57.5	
Asian	2	50.0	50.0	50.0	50.0	1,815	19.4	44.5	53.6	56.1	
Other	0	--	--	--	--	690	24.8	52.5	58.1	59.9	
Unknown	0	--	--	--	--	0	--	--	--	--	
Age											
<2 years	0	--	--	--	--	861	22.1	72.0	75.0	76.2	
2-11 years	0	--	--	--	--	671	27.4	70.2	75.6	76.9	
12-17 years	0	--	--	--	--	446	20.9	58.1	65.9	67.7	
18-34 years	15	13.3	33.3	33.3	33.3	2,314	31.2	53.2	58.1	59.9	
35-49 years	52	25.0	48.1	50.0	51.9	6,650	30.7	54.8	59.8	61.4	
50-64 years	126	21.4	49.2	50.8	51.6	19,523	19.4	50.1	57.0	58.9	
65-69 years	56	12.5	48.2	51.8	57.1	6,512	14.2	46.0	53.8	55.9	
70+ years	20	15.0	45.0	55.0	60.0	1,744	14.4	46.3	53.6	54.5	
Gender											
Male	183	21.3	53.0	56.8	58.5	24,131	20.9	52.3	59.1	60.9	
Female	86	15.1	36.0	36.0	39.5	14,590	21.5	49.3	55.4	57.1	

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



B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics
Candidates registered on the waiting list between 01/01/2017 and 12/31/2019

Characteristic	N	Percent transplanted at time periods since listing					United States				
		This Center									
		30 day	1 year	2 years	3 years		30 day	1 year	2 years	3 years	
All	269	19.3	47.6	50.2	52.4	38,721	21.2	51.2	57.7	59.5	
Blood Type											
O	126	14.3	38.1	40.5	44.4	18,066	20.1	48.7	55.6	57.6	
A	101	21.8	52.5	54.5	55.4	14,419	20.1	49.6	56.2	58.0	
B	34	20.6	58.8	64.7	64.7	4,721	24.6	59.1	64.8	66.2	
AB	8	62.5	87.5	87.5	87.5	1,515	32.8	70.7	74.0	74.7	
Previous Transplant											
Yes	17	0.0	11.8	17.6	17.6	1,894	29.1	53.2	58.1	59.3	
No	252	20.6	50.0	52.4	54.8	36,827	20.8	51.1	57.7	59.5	
Primary Disease											
Acute Hepatic Necrosis	7	57.1	57.1	57.1	57.1	1,738	53.2	62.1	64.4	65.2	
Non-Cholestatic Cirrhosis	171	19.9	48.5	50.9	53.2	25,688	21.9	50.4	56.2	58.0	
Cholestatic Liver Disease/Cirrhosis	22	4.5	27.3	27.3	27.3	2,632	17.3	49.1	57.3	59.8	
Biliary Atresia	0	--	--	--	--	759	15.4	65.0	70.4	72.3	
Metabolic Diseases	0	--	--	--	--	932	25.3	68.7	73.4	75.3	
Malignant Neoplasms	34	0.0	38.2	44.1	50.0	4,872	7.9	47.4	58.0	59.7	
Other	35	37.1	62.9	65.7	65.7	2,084	21.4	50.4	57.8	59.8	
Missing	0	--	--	--	--	16	25.0	31.2	37.5	37.5	
Medical Urgency Status/MELD/PELD at Listing*											
Status 1	0	--	--	--	--	0	--	--	--	--	
Status 1A	7	28.6	28.6	28.6	28.6	1,215	60.6	61.1	61.2	61.3	
Status 1B	0	--	--	--	--	142	47.2	82.4	82.4	82.4	
Status 2A	0	--	--	--	--	0	--	--	--	--	
Status 2B	0	--	--	--	--	0	--	--	--	--	
Status 3	0	--	--	--	--	0	--	--	--	--	
MELD 6-10	58	0.0	36.2	43.1	44.8	7,437	2.6	37.7	49.1	51.8	
MELD 11-14	34	0.0	29.4	35.3	38.2	5,205	2.8	33.2	43.4	46.6	
MELD 15-20	57	3.5	38.6	40.4	45.6	8,259	9.5	44.7	52.8	55.0	
MELD 21-30	70	25.7	60.0	60.0	61.4	8,751	26.8	61.0	64.6	65.7	
MELD 31-40	27	70.4	74.1	74.1	74.1	4,079	69.6	79.1	79.3	79.5	
PELD less than or equal to 10	0	--	--	--	--	687	10.6	70.7	77.6	79.9	
PELD 11-14	0	--	--	--	--	107	16.8	74.8	80.4	81.3	
PELD 15-20	0	--	--	--	--	172	19.8	76.2	78.5	79.1	
PELD 21-30	0	--	--	--	--	133	30.8	78.2	79.7	79.7	
PELD 31 or greater	0	--	--	--	--	36	44.4	66.7	66.7	66.7	
Temporarily Inactive	16	68.8	68.8	68.8	68.8	2,498	35.9	53.8	57.4	58.1	

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



B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 01/01/2017 and 06/30/2022

Percentile	Center	Months to Transplant**		U.S.
		OPO/DSA	Region	
5th	0.1	0.1	0.1	0.1
10th	0.3	0.2	0.2	0.2
25th	1.4	1.3	1.1	0.9
50th (median time to transplant)	4.6	5.3	8.8	7.5
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 12/31/2022. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



B. Waiting List Information

Table B11. Offer Acceptance Practices: 01/01/2022 - 12/31/2022

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	3,537	6,960	44,240	285,031
Number of Acceptances	36	110	748	7,816
Expected Acceptances	56.3	159.3	1,000.4	7,816.0
Offer Acceptance Ratio*	0.65	0.69	0.75	1.00
95% Credible Interval**	[0.46, 0.88]	--	--	--
PHS increased infectious risk				
Number of Offers	708	1,201	7,739	51,802
Number of Acceptances	9	23	147	1,498
Expected Acceptances	10.0	26.6	176.6	1,497.0
Offer Acceptance Ratio*	0.91	0.87	0.83	1.00
95% Credible Interval**	[0.46, 1.53]	--	--	--
DCD donor				
Number of Offers	1,173	1,315	9,694	73,823
Number of Acceptances	14	18	59	914
Expected Acceptances	10.2	16.2	88.7	916.3
Offer Acceptance Ratio*	1.32	1.10	0.67	1.00
95% Credible Interval**	[0.75, 2.04]	--	--	--
HCV+ donor				
Number of Offers	22	89	1,269	11,031
Number of Acceptances	3	5	38	381
Expected Acceptances	1.1	5.6	47.9	382.6
Offer Acceptance Ratio*	1.59	0.92	0.80	1.00
95% Credible Interval**	[0.52, 3.26]	--	--	--
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	2,853	3,857	28,582	173,665
Number of Acceptances	6	10	119	1,085
Expected Acceptances	17.2	36.1	202.9	1,198.8
Offer Acceptance Ratio*	0.42	0.31	0.59	0.91
95% Credible Interval**	[0.18, 0.75]	--	--	--
Donor more than 500 miles away				
Number of Offers	969	1,666	9,354	83,150
Number of Acceptances	3	13	66	942
Expected Acceptances	4.9	16.3	96.9	882.5
Offer Acceptance Ratio*	0.73	0.82	0.69	1.07
95% Credible Interval**	[0.24, 1.49]	--	--	--

* The offer acceptance ratio estimates the relative offer acceptance practice of University of Pittsburgh Medical Center compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer), while a ratio below one indicates the program is less likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a 25% less likely to accept an offer).

** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.46, 0.88], indicates the location of PAPT's true offer acceptance ratio with 95% probability. The best estimate is 35% less likely to accept an offer compared to national acceptance behavior, but PAPT's performance could plausibly range from 54% reduced acceptance up to 12% reduced acceptance.



B. Waiting List Information

Figure B10. Offer acceptance: Overall

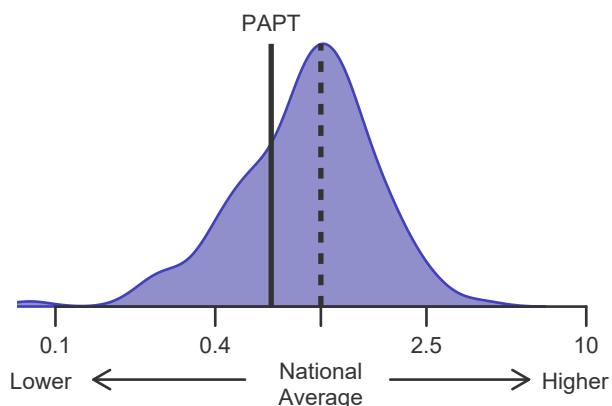


Figure B11. Offer acceptance: PHS increased infectious risk

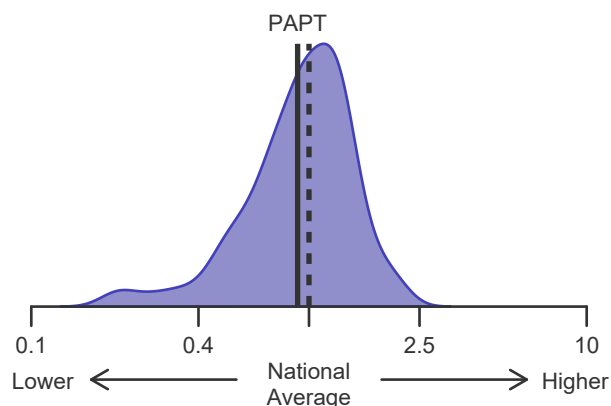


Figure B12. Offer acceptance: DCD Donor

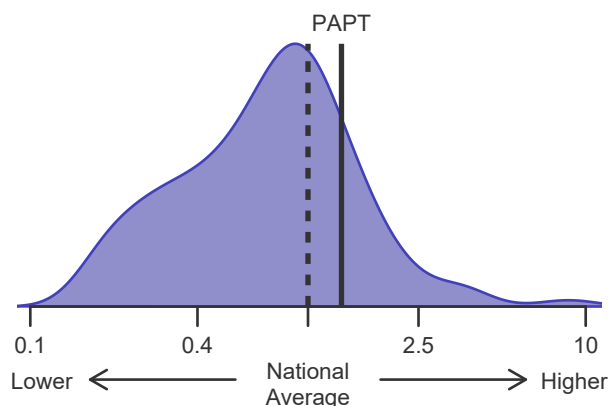


Figure B13. Offer acceptance: HCV+ Donor

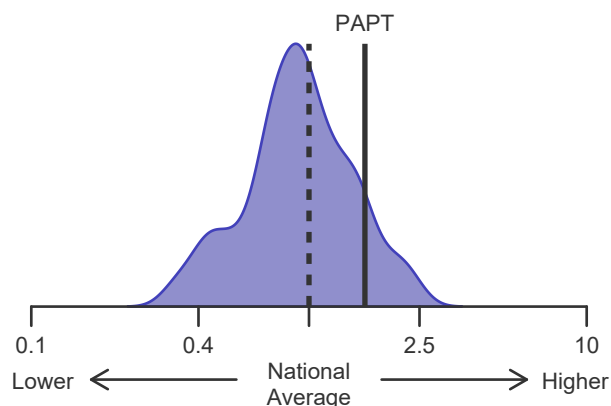


Figure B14. Offer acceptance: Offer number > 50

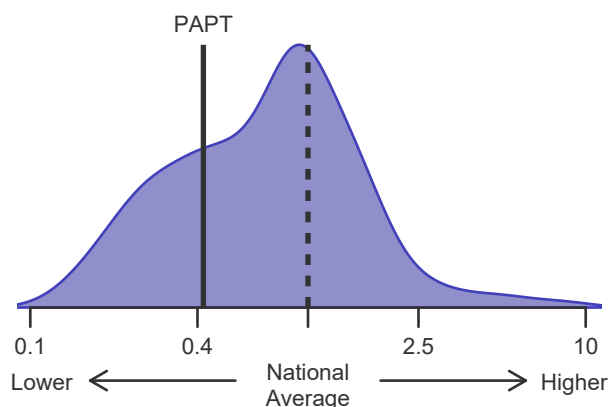
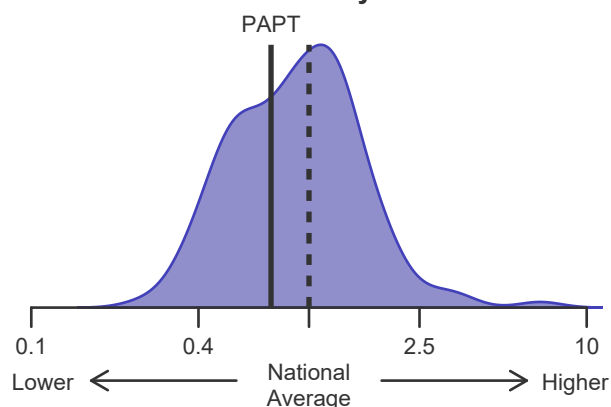


Figure B15. Offer acceptance: Donor more than 500 miles away





C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics

Patients transplanted between 01/01/2022 and 12/31/2022

Characteristic	Percentage in each category		
	Center (N=44)	Region (N=845)	U.S. (N=8,924)
Ethnicity/Race (%)*			
White	95.5	72.9	68.5
African-American	2.3	14.3	7.0
Hispanic/Latino	2.3	8.3	18.3
Asian	0.0	4.1	4.4
Other	0.0	0.4	1.8
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	2.5	1.9
2-11 years	0.0	2.4	1.6
12-17	0.0	1.3	1.4
18-34	4.5	6.6	6.8
35-49 years	34.1	21.5	21.7
50-64 years	40.9	45.0	45.7
65-69 years	11.4	13.7	14.9
70+ years	9.1	7.0	5.8
Gender (%)			
Male	81.8	65.3	62.6
Female	18.2	34.7	37.4

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



C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics

Patients transplanted between 01/01/2022 and 12/31/2022

Characteristic	Percentage in each category		
	Center (N=76)	Region (N=139)	U.S. (N=603)
Ethnicity/Race (%)*			
White	96.1	89.2	74.1
African-American	3.9	7.2	4.5
Hispanic/Latino	0.0	2.2	16.3
Asian	0.0	1.4	3.8
Other	0.0	0.0	1.3
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	5.8	9.0
2-11 years	0.0	5.0	4.5
12-17	1.3	2.2	1.0
18-34	10.5	11.5	10.8
35-49 years	17.1	18.7	18.4
50-64 years	46.1	38.1	37.1
65-69 years	17.1	12.2	13.4
70+ years	7.9	6.5	5.8
Gender (%)			
Male	67.1	59.7	51.7
Female	32.9	40.3	48.3

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



C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics
Patients transplanted between 01/01/2022 and 12/31/2022

Characteristic	Percentage in each category		
	Center (N=44)	Region (N=845)	U.S. (N=8,924)
Blood Type (%)			
O	36.4	45.0	45.6
A	47.7	36.6	35.9
B	11.4	14.6	13.7
AB	4.5	3.9	4.9
Previous Transplant (%)			
Yes	4.5	4.9	4.3
No	95.5	95.1	95.7
Body Mass Index (%)			
0-20	6.8	11.8	11.1
21-25	25.0	25.3	26.3
26-30	29.5	31.0	29.5
31-35	22.7	17.8	18.7
36-40	6.8	7.3	8.8
41+	4.5	4.5	3.8
Unknown	4.5	2.2	1.6
Primary Disease (%)			
Acute Hepatic Necrosis	0.0	4.5	3.9
Non-Cholestatic Cirrhosis	36.4	48.2	51.1
Cholestatic Liver Disease/Cirrhosis	2.3	4.6	5.9
Biliary Atresia	0.0	2.0	1.8
Metabolic Diseases	2.3	2.7	2.3
Malignant Neoplasms	29.5	12.0	11.8
Other	29.5	26.0	23.3
Missing	0.0	0.0	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	2.3	3.4	3.0
Status 1B	0.0	1.8	1.2
MELD 6-10	15.9	12.0	10.2
MELD 11-14	15.9	6.7	6.8
MELD 15-20	13.6	13.5	15.2
MELD 21-30	27.3	27.2	30.3
MELD 31-40	20.5	26.0	24.7
PELD less than or equal to 10	0.0	1.7	1.0
PELD 11-14	0.0	0.2	0.1
PELD 15-20	0.0	0.4	0.4
PELD 21-30	0.0	0.2	0.4
PELD 31 or greater	0.0	0.2	0.2
Temporarily Inactive	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	90.9	58.8	57.6
Hospitalized	6.8	27.2	25.3
ICU	2.3	14.0	16.8
Unknown	0.0	0.0	0.3

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



C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics
Patients transplanted between 01/01/2022 and 12/31/2022

Characteristic	Percentage in each category		
	Center (N=76)	Region (N=139)	U.S. (N=603)
Blood Type (%)			
O	43.4	42.4	46.8
A	39.5	43.9	41.8
B	13.2	11.5	9.5
AB	3.9	2.2	2.0
Previous Transplant (%)			
Yes	3.9	2.2	1.8
No	96.1	97.8	98.2
Body Mass Index (%)			
0-20	11.8	24.5	24.2
21-25	22.4	24.5	29.9
26-30	39.5	33.8	27.5
31-35	14.5	10.8	12.3
36-40	7.9	4.3	5.0
41+	2.6	1.4	0.8
Unknown	1.3	0.7	0.3
Primary Disease (%)			
Acute Hepatic Necrosis	3.9	2.2	3.0
Non-Cholestatic Cirrhosis	39.5	36.7	42.5
Cholestatic Liver Disease/Cirrhosis	27.6	25.9	20.9
Biliary Atresia	0.0	8.6	11.1
Metabolic Diseases	0.0	2.2	1.8
Malignant Neoplasms	19.7	15.8	10.0
Other	9.2	8.6	10.8
Missing	0.0	0.0	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	0.0	0.7	2.0
Status 1B	0.0	1.4	1.0
MELD 6-10	23.7	24.5	24.0
MELD 11-14	14.5	17.3	19.9
MELD 15-20	35.5	29.5	26.4
MELD 21-30	21.1	15.1	12.9
MELD 31-40	3.9	2.2	1.0
PELD less than or equal to 10	0.0	6.5	4.6
PELD 11-14	0.0	0.7	1.5
PELD 15-20	0.0	0.0	2.2
PELD 21-30	0.0	0.7	1.2
PELD 31 or greater	0.0	0.7	1.3
Temporarily Inactive	1.3	0.7	2.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	100.0	96.4	88.1
Hospitalized	0.0	2.9	8.5
ICU	0.0	0.7	3.5
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C3D. Deceased donor characteristics**Transplants performed between 01/01/2022 and 12/31/2022**

Donor Characteristic	Percentage in each category		
	Center (N=44)	Region (N=845)	U.S. (N=8,924)
Cause of Death (%)			
Deceased: Stroke	29.5	27.5	25.4
Deceased: MVA	13.6	10.3	12.4
Deceased: Other	56.8	62.2	62.2
Ethnicity/Race (%)*			
White	86.4	64.5	61.5
African-American	13.6	22.7	18.9
Hispanic/Latino	0.0	9.2	15.6
Asian	0.0	3.4	2.9
Other	0.0	0.1	1.1
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.6	0.8
2-11 years	0.0	3.2	2.1
12-17	4.5	5.3	4.5
18-34	34.1	28.5	31.4
35-49 years	36.4	28.6	30.4
50-64 years	20.5	25.9	23.4
65-69 years	4.5	3.8	4.3
70+ years	0.0	4.0	3.1
Gender (%)			
Male	63.6	62.7	62.5
Female	36.4	37.3	37.5
Blood Type (%)			
O	45.5	49.6	49.4
A	43.2	36.7	36.5
B	9.1	11.0	11.4
AB	2.3	2.7	2.7
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C3L. Living donor characteristics**Transplants performed between 01/01/2022 and 12/31/2022**

Donor Characteristic	Percentage in each category		
	Center (N=76)	Region (N=139)	U.S. (N=603)
Ethnicity/Race (%)*			
White	97.4	93.5	78.4
African-American	0.0	2.2	3.6
Hispanic/Latino	1.3	1.4	13.6
Asian	1.3	2.9	3.6
Other	0.0	0.0	0.7
Not Reported	0.0	0.0	0.0
Age (%)			
0-11 years	0.0	0.0	0.3
12-17	0.0	1.4	0.5
18-34	34.2	38.1	43.6
35-49 years	55.3	49.6	41.6
50-64 years	10.5	10.8	13.9
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	39.5	40.3	41.5
Female	60.5	59.7	58.5
Blood Type (%)			
O	60.5	62.6	65.2
A	28.9	28.8	28.4
B	7.9	7.2	5.6
AB	2.6	1.4	0.8
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C4D. Deceased donor transplant characteristics
Transplants performed between 01/01/2022 and 12/31/2022

Transplant Characteristic	Percentage in each category		
	Center (N=44)	Region (N=845)	U.S. (N=8,924)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-5 hr	35.0	60.8	63.7
Deceased: 6-10 hr	55.0	37.7	28.6
Deceased: 11-15 hr	5.0	0.7	4.5
Deceased: 16-20 hr	5.0	0.7	1.0
Deceased: 21+ hr	0.0	0.0	0.1
Not Reported	0.0	0.0	2.0
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-5 hr	41.7	40.7	43.0
Deceased: 6-10 hr	45.8	57.2	49.7
Deceased: 11-15 hr	8.3	1.7	4.6
Deceased: 16-20 hr	0.0	0.0	1.1
Deceased: 21+ hr	0.0	0.0	0.2
Not Reported	4.2	0.3	1.4
Procedure Type (%)			
Single organ	84.1	91.0	89.7
Multi organ	15.9	9.0	10.3
Donor Location (%)			
Local Donation Service Area (DSA)	45.5	32.3	35.6
Another Donation Service Area (DSA)	54.5	67.7	64.4
Median Time in Hospital After Transplant	10.0 Days	11.0 Days	10.0 Days



C. Transplant Information

Table C4L. Living donor transplant characteristics
Transplants performed between 01/01/2022 and 12/31/2022

Transplant Characteristic	Percentage in each category		
	Center (N=76)	Region (N=139)	U.S. (N=603)
Relation with Donor (%)			
Related	42.1	47.5	53.7
Unrelated	46.1	45.3	44.4
Not Reported	11.8	7.2	1.8
Procedure Type (%)			
Single organ	100.0	100.0	99.8
Multi organ	0.0	0.0	0.2
Median Time in Hospital After Transplant	7.0 Days	9.0 Days	10.0 Days



C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	259	17,587
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	96.07%	96.76%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.12%	--
Number of observed graft failures (including deaths) during the first month after transplant	10	563
Number of expected graft failures (including deaths) during the first month after transplant	7.19	--
Estimated hazard ratio*	1.31	--
95% credible interval for the hazard ratio**	[0.67, 2.14]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.67, 2.14], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 31% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 33% reduced risk up to 114% increased risk.

Figure C1. Adult (18+) 1-month graft failure HR estimate

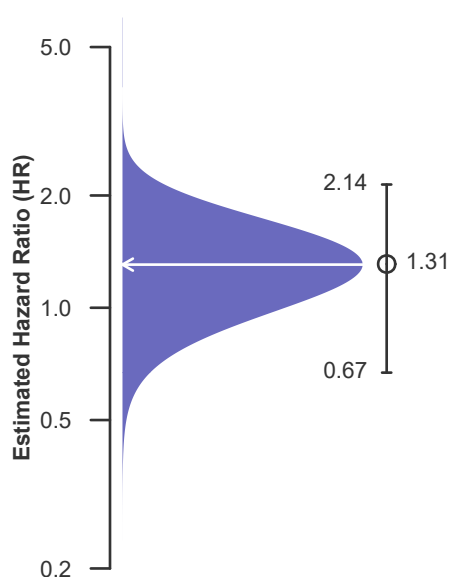
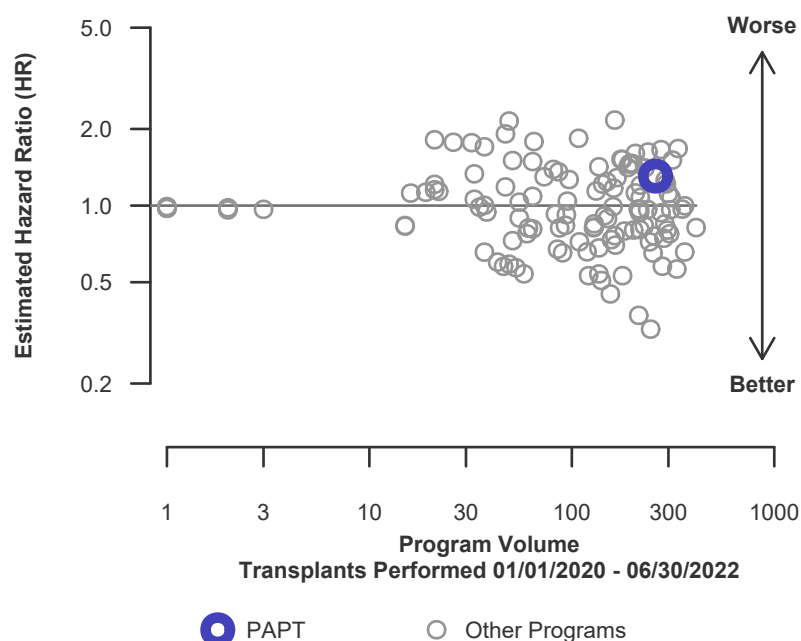


Figure C2. Adult (18+) 1-month graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	94	16,486
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	91.37%	96.72%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.75%	--
Number of observed graft failures (including deaths) during the first month after transplant	8	534
Number of expected graft failures (including deaths) during the first month after transplant	2.84	--
Estimated hazard ratio*	2.06	--
95% credible interval for the hazard ratio**	[0.99, 3.53]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.99, 3.53], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 106% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 1% reduced risk up to 253% increased risk.

Figure C1D. Adult (18+) 1-month deceased donor graft failure HR estimate

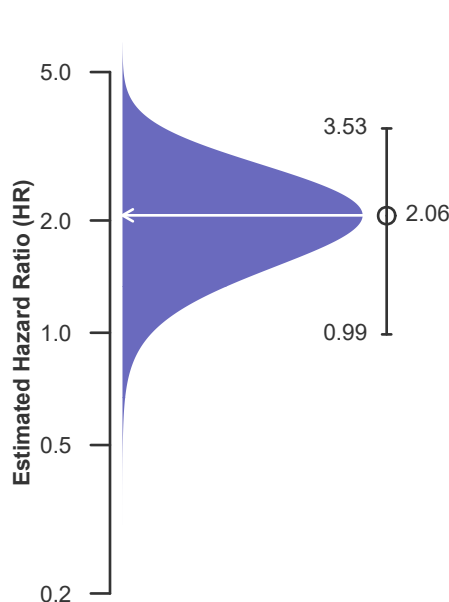
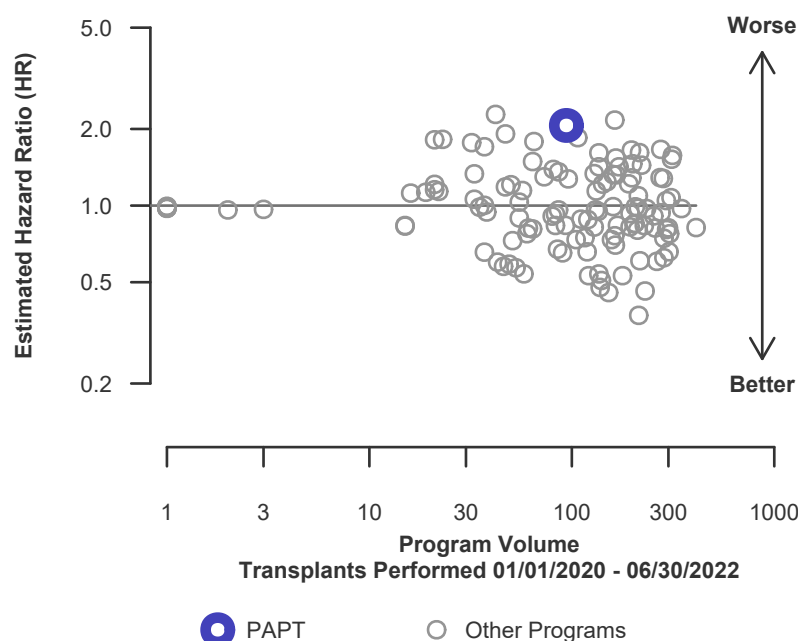


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	165	1,101
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.75%	97.33%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.33%	--
Number of observed graft failures (including deaths) during the first month after transplant	2	29
Number of expected graft failures (including deaths) during the first month after transplant	4.35	--
Estimated hazard ratio*	0.63	--
95% credible interval for the hazard ratio**	[0.17, 1.38]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.17, 1.38], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 37% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 83% reduced risk up to 38% increased risk.

Figure C1L. Adult (18+) 1-month living donor graft failure HR estimate

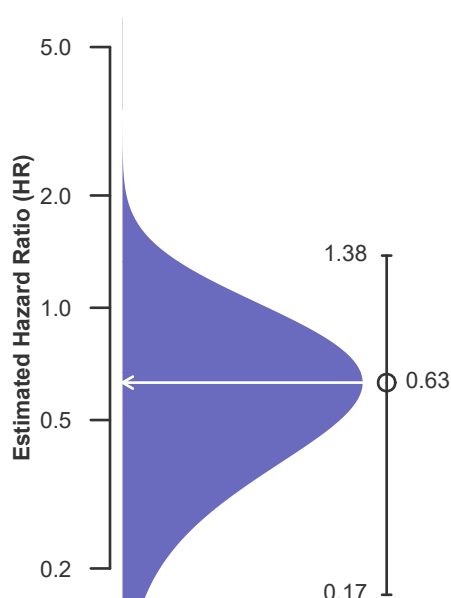
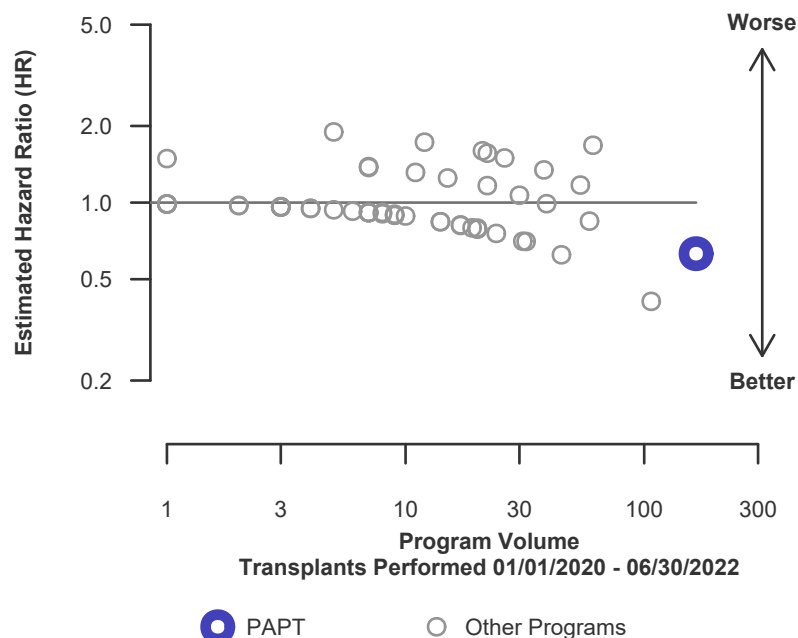


Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	259	17,587
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	93.91%	95.02%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.37%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	15	848
Number of expected graft failures (including deaths) during the first 90 days after transplant	11.12	--
Estimated hazard ratio*	1.30	--
95% credible interval for the hazard ratio**	[0.75, 1.98]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.75, 1.98], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 30% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 25% reduced risk up to 98% increased risk.

Figure C3. Adult (18+) 90-Day graft failure HR estimate

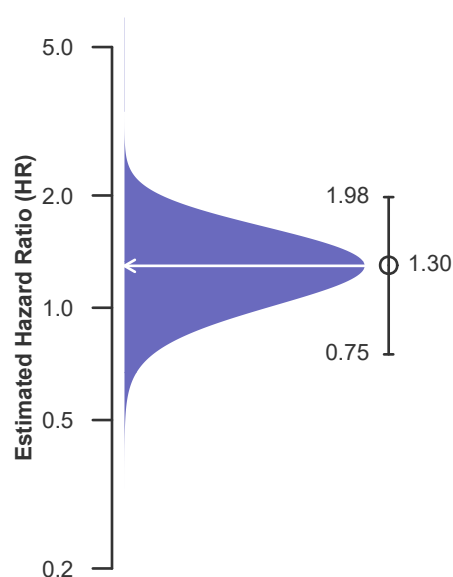
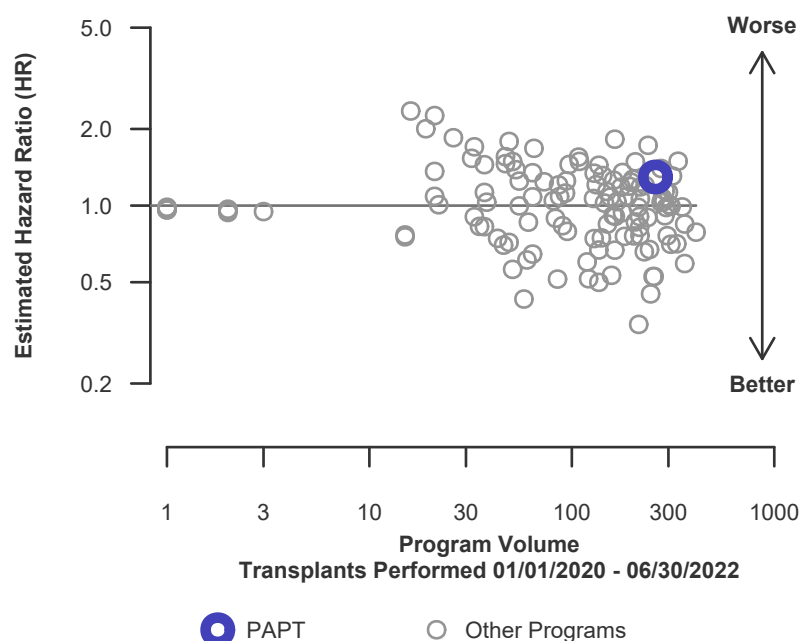


Figure C4. Adult (18+) 90-Day graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	94	16,486
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	87.77%	94.97%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.84%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	11	802
Number of expected graft failures (including deaths) during the first 90 days after transplant	4.26	--
Estimated hazard ratio*	2.08	--
95% credible interval for the hazard ratio**	[1.11, 3.35]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [1.11, 3.35], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 108% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 11% increased risk up to 235% increased risk.

Figure C3D. Adult (18+) 90-Day deceased donor graft failure HR estimate

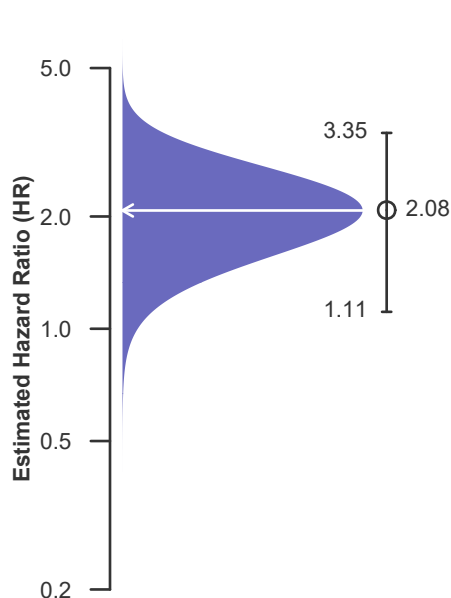
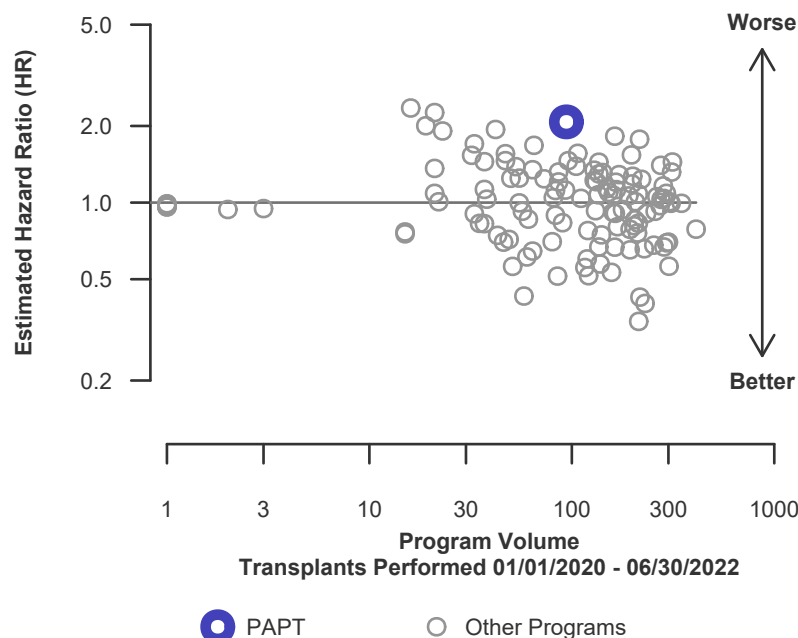


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	165	1,101
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	97.39%	95.67%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.68%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	4	46
Number of expected graft failures (including deaths) during the first 90 days after transplant	6.86	--
Estimated hazard ratio*	0.68	--
95% credible interval for the hazard ratio**	[0.25, 1.32]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.25, 1.32], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 32% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 75% reduced risk up to 32% increased risk.

Figure C3L. Adult (18+) 90-Day living donor graft failure HR estimate

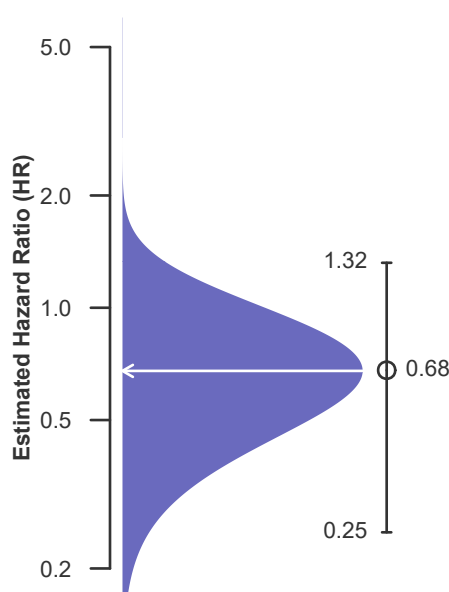
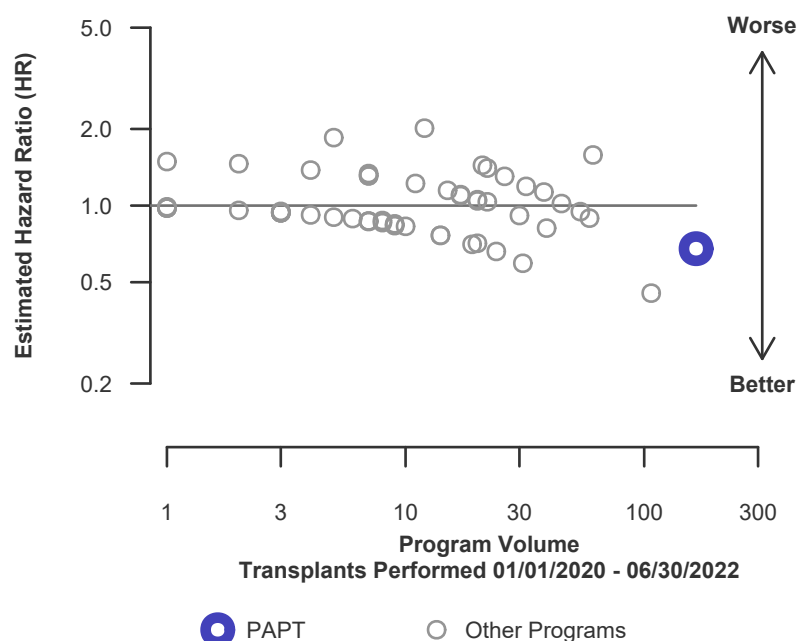


Figure C4L. Adult (18+) 90-Day living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	259	17,587
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	90.05%	91.74%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.34%	--
Number of observed graft failures (including deaths) during the first year after transplant	22	1,300
Number of expected graft failures (including deaths) during the first year after transplant	16.89	--
Estimated hazard ratio*	1.27	--
95% credible interval for the hazard ratio**	[0.81, 1.83]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.81, 1.83], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 27% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 19% reduced risk up to 83% increased risk.

Figure C5. Adult (18+) 1-year graft failure HR estimate

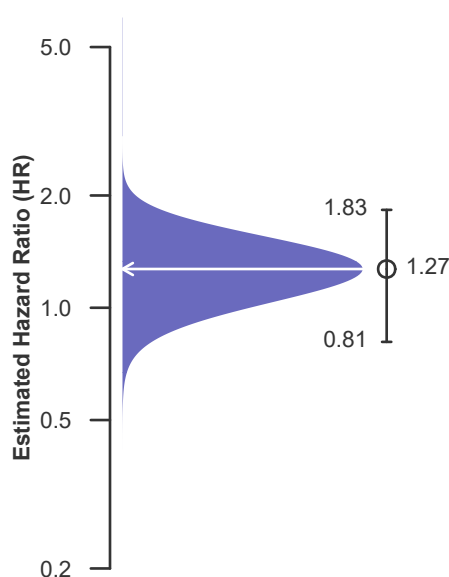
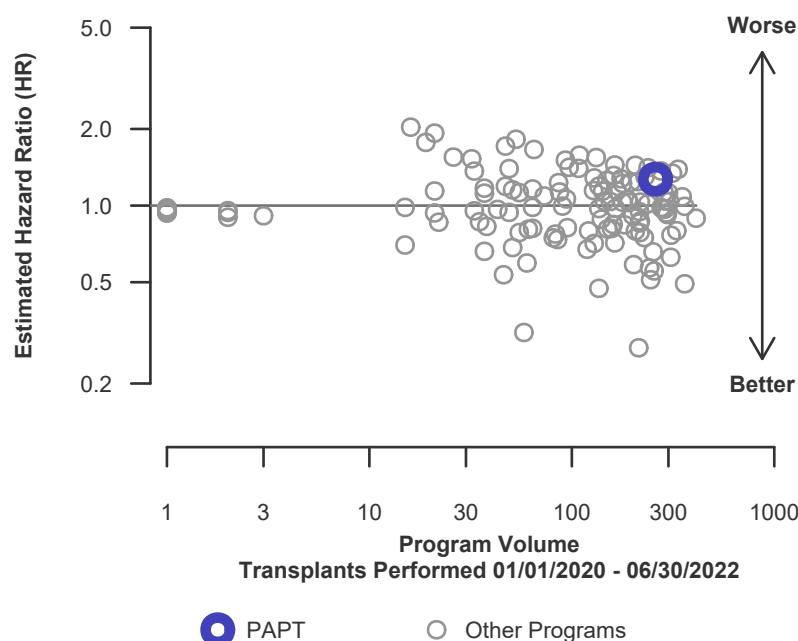


Figure C6. Adult (18+) 1-year graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	94	16,486
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	86.23%	91.66%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.26%	--
Number of observed graft failures (including deaths) during the first year after transplant	12	1,231
Number of expected graft failures (including deaths) during the first year after transplant	6.62	--
Estimated hazard ratio*	1.63	--
95% credible interval for the hazard ratio**	[0.89, 2.58]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.89, 2.58], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 63% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 11% reduced risk up to 158% increased risk.

Figure C5D. Adult (18+) 1-year deceased donor graft failure HR estimate

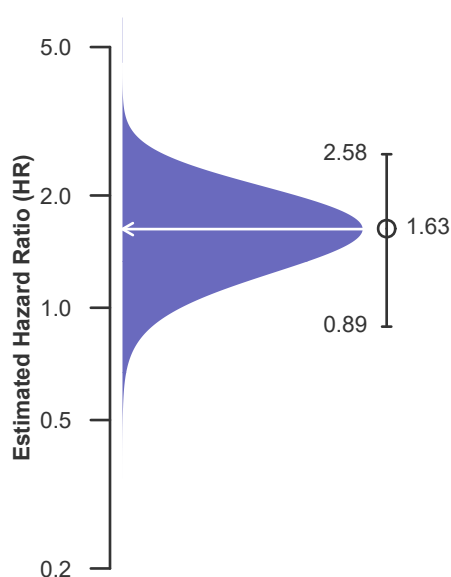
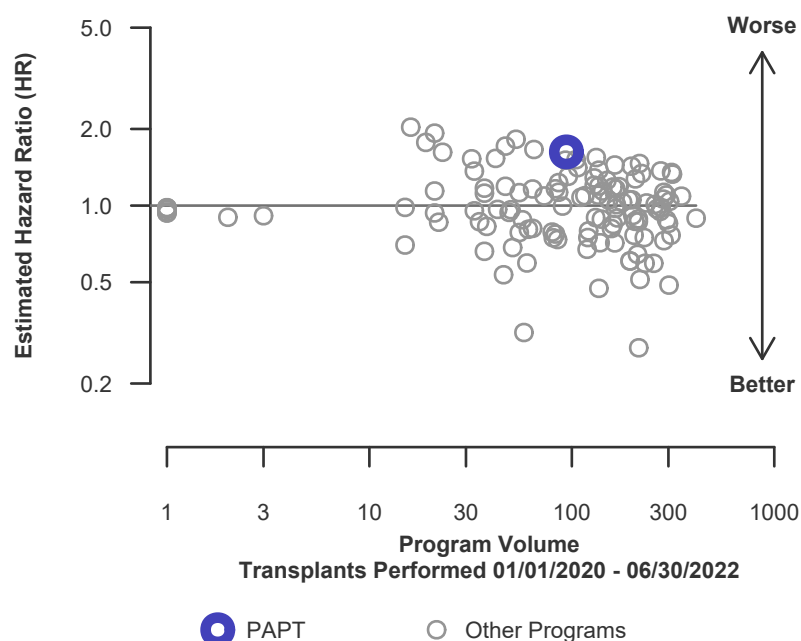


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	165	1,101
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	92.19%	92.95%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.95%	--
Number of observed graft failures (including deaths) during the first year after transplant	10	69
Number of expected graft failures (including deaths) during the first year after transplant	10.28	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.50, 1.60]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.50, 1.60], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 50% reduced risk up to 60% increased risk.

Figure C5L. Adult (18+) 1-year living donor graft failure HR estimate

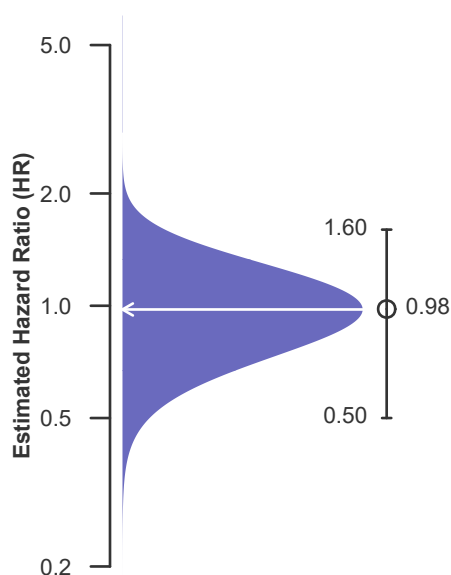
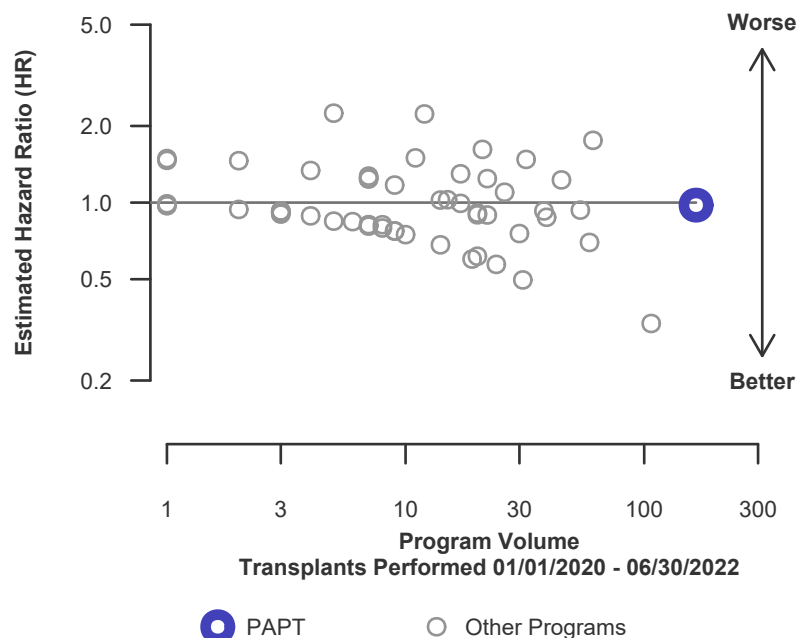


Figure C6L. Adult (18+) 1-year living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	211	15,233
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	95.88%	96.55%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.82%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	7	452
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	5.77	--
Estimated hazard ratio*	1.16	--
95% credible interval for the hazard ratio**	[0.53, 2.03]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.53, 2.03], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 16% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 47% reduced risk up to 103% increased risk.

Figure C7. Adult (18+) 1-year Conditional graft failure HR estimate

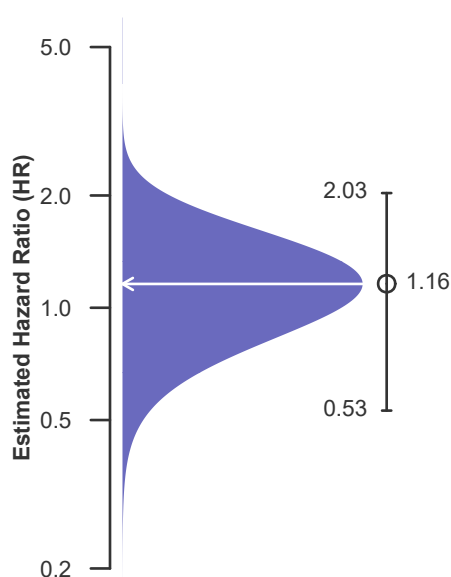
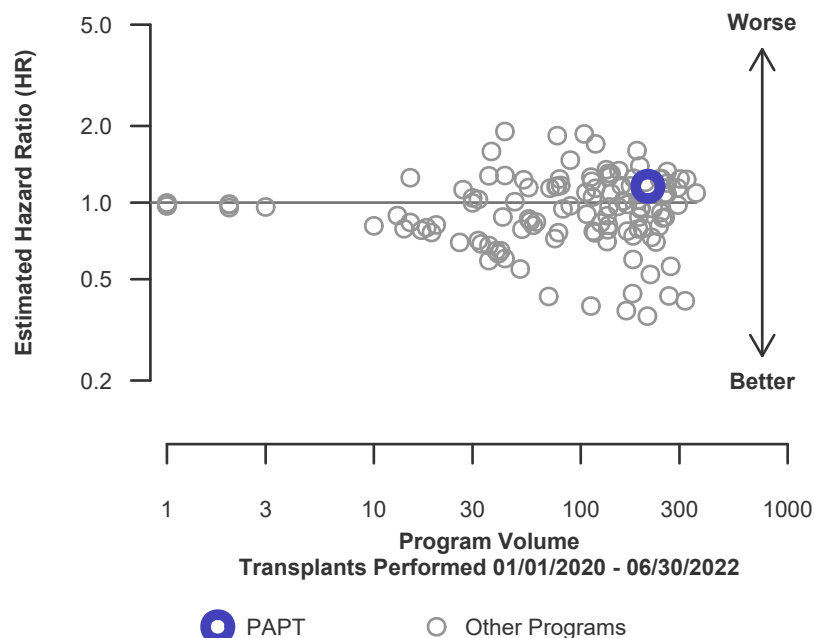


Figure C8. Adult (18+) 1-year Conditional graft failure HR program comparison





C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	PAPT	U.S.
Number of transplants evaluated	69	14,270
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	98.25%	96.51%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.22%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	429
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	2.35	--
Estimated hazard ratio*	0.69	--
95% credible interval for the hazard ratio**	[0.14, 1.66]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.14, 1.66], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 31% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 86% reduced risk up to 66% increased risk.

Figure C7D. Adult (18+) 1-year Conditional deceased donor graft failure HR estimate

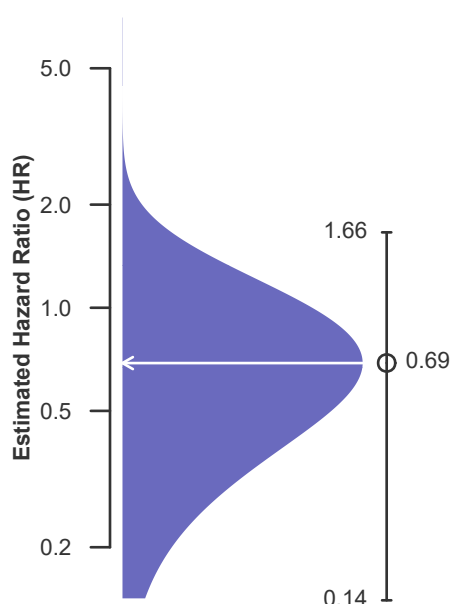
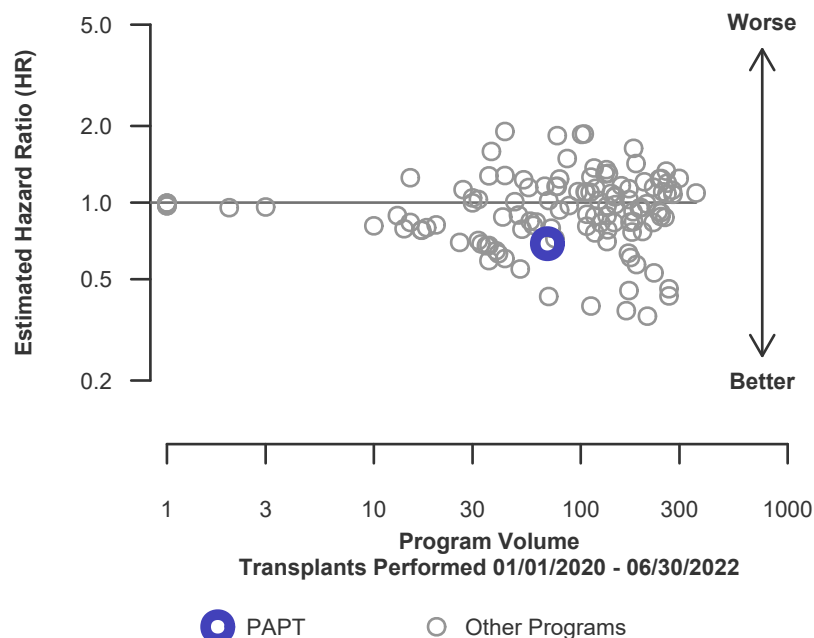


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	142	963
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	94.66%	97.15%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.15%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	6	23
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	3.42	--
Estimated hazard ratio*	1.48	--
95% credible interval for the hazard ratio**	[0.64, 2.66]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.64, 2.66], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 48% higher risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 36% reduced risk up to 166% increased risk.

Figure C7L. Adult (18+) 1-year Conditional living donor graft failure HR estimate

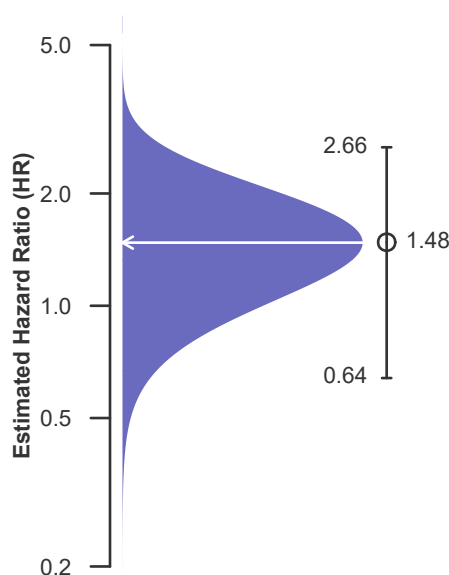
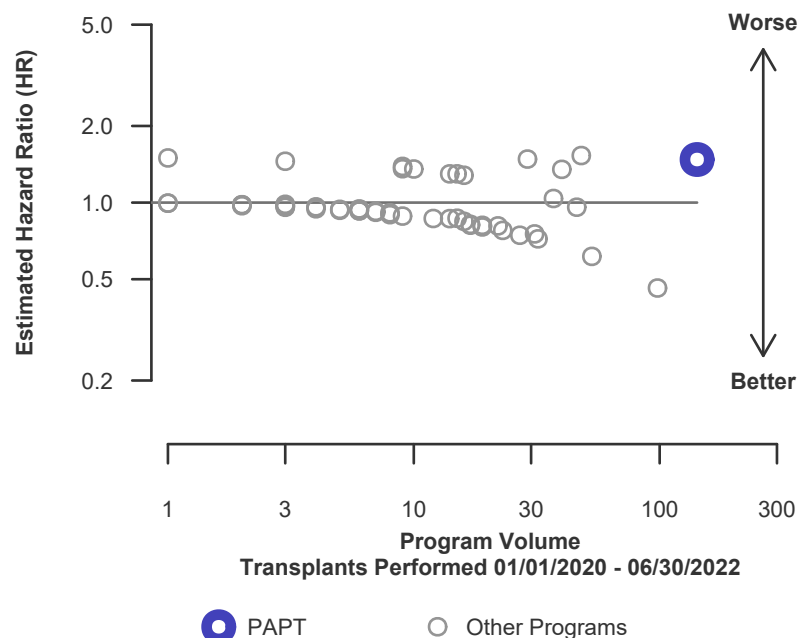


Figure C8L. Adult (18+) 1-year Conditional living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	280	17,821
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	90.46%	87.29%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.12%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	17	1,614
Number of expected graft failures (including deaths) during the first 3 years after transplant	24.70	--
Estimated hazard ratio*	0.71	--
95% credible interval for the hazard ratio**	[0.43, 1.07]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.43, 1.07], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 29% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 57% reduced risk up to 7% increased risk.

Figure C9. Adult (18+) 3-year graft failure HR estimate

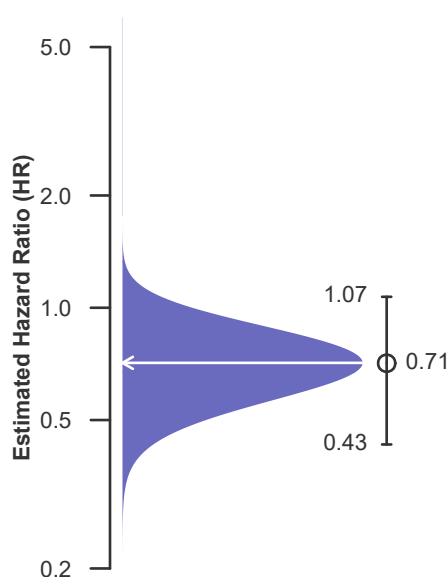
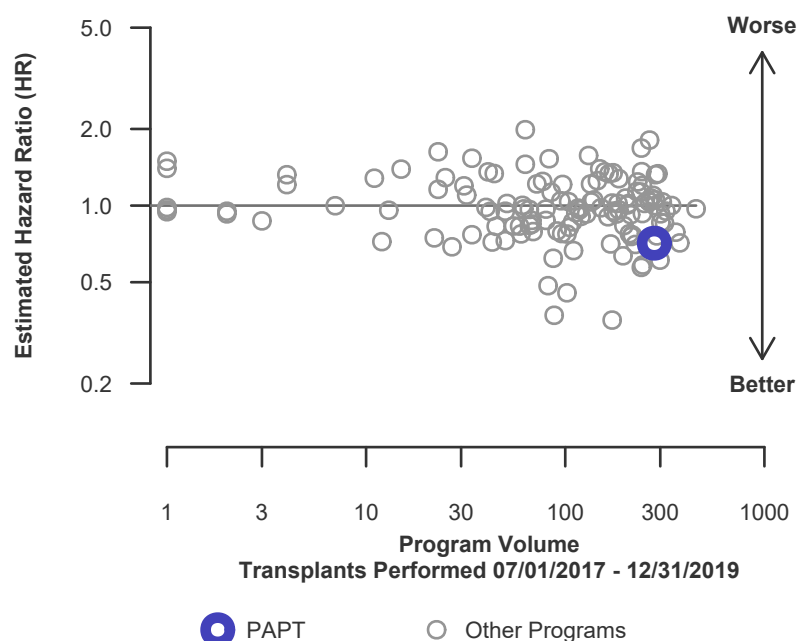


Figure C10. Adult (18+) 3-year graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	116	16,891
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	90.38%	87.22%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.95%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	6	1,538
Number of expected graft failures (including deaths) during the first 3 years after transplant	11.11	--
Estimated hazard ratio*	0.61	--
95% credible interval for the hazard ratio**	[0.26, 1.10]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.26, 1.10], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 39% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 74% reduced risk up to 10% increased risk.

Figure C9D. Adult (18+) 3-year deceased donor graft failure HR estimate

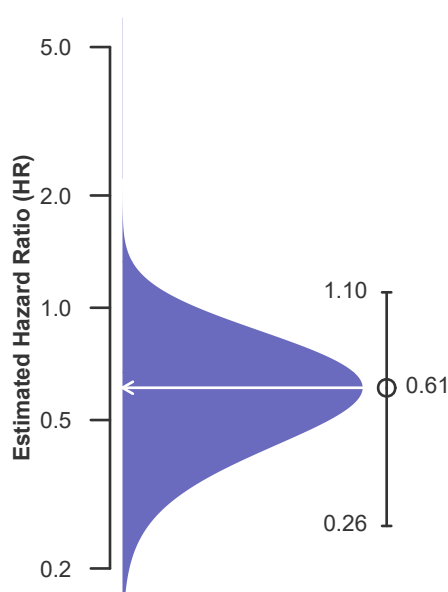
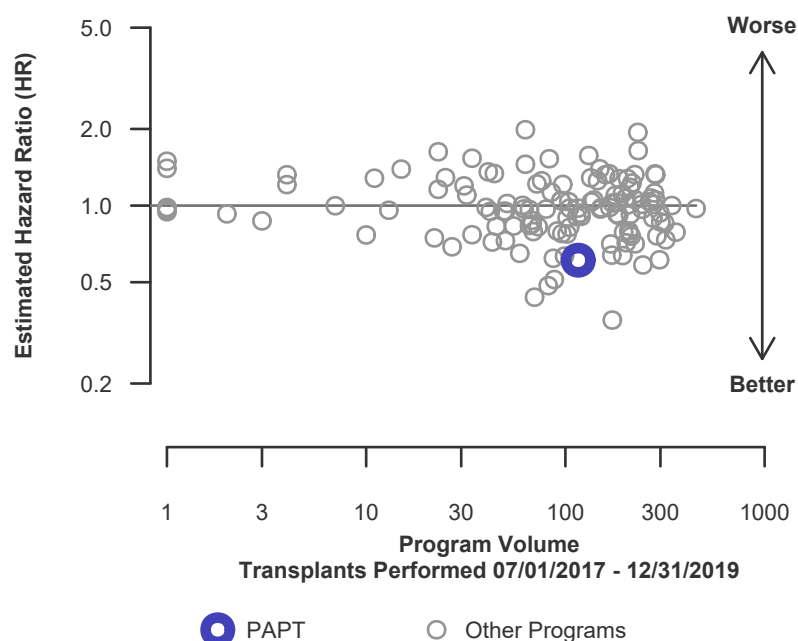


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	164	930
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	90.27%	88.93%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.94%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	11	76
Number of expected graft failures (including deaths) during the first 3 years after transplant	13.59	--
Estimated hazard ratio*	0.83	--
95% credible interval for the hazard ratio**	[0.44, 1.34]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.44, 1.34], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 56% reduced risk up to 34% increased risk.

Figure C9L. Adult (18+) 3-year living donor graft failure HR estimate

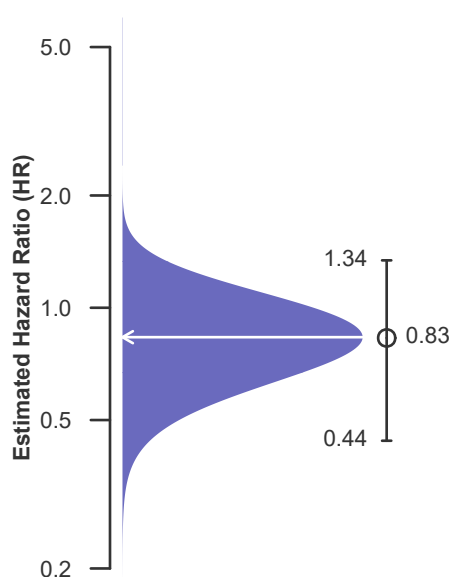
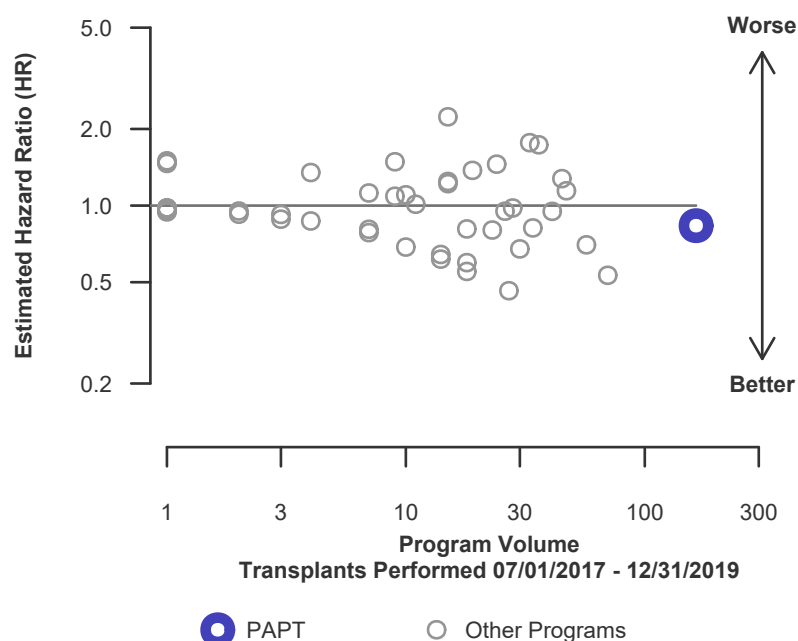


Figure C10L. Adult (18+) 3-year living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	1	1,111
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	95.81%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.65%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	46
Number of expected graft failures (including deaths) during the first month after transplant	0.02	--
Estimated hazard ratio*	0.99	--
95% credible interval for the hazard ratio**	[0.12, 2.75]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

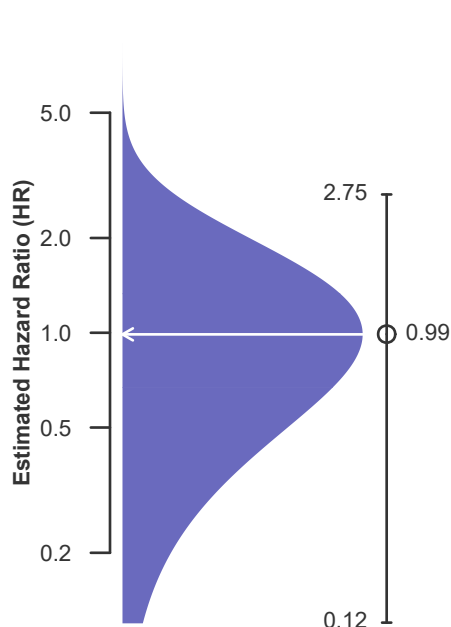
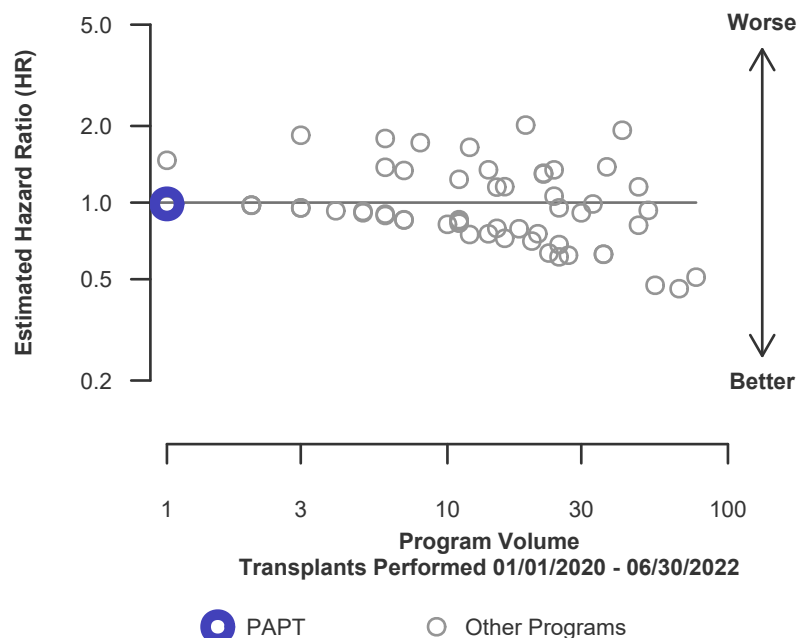


Figure C12. Pediatric (<18) 1-month graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

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
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022



C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	1	174
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.65%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.65%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	4
Number of expected graft failures (including deaths) during the first month after transplant	0.02	--
Estimated hazard ratio*	0.99	--
95% credible interval for the hazard ratio**	[0.12, 2.75]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

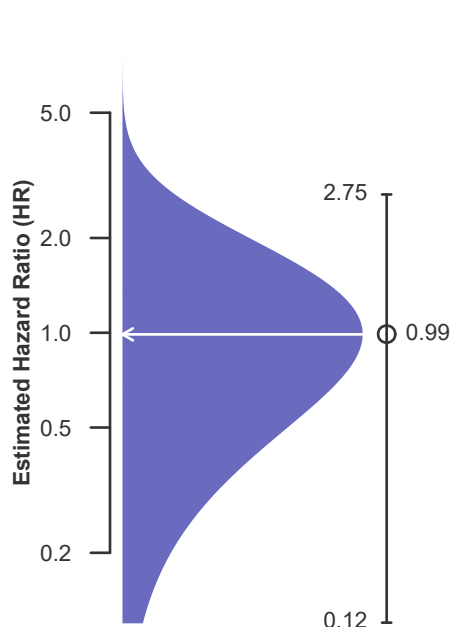
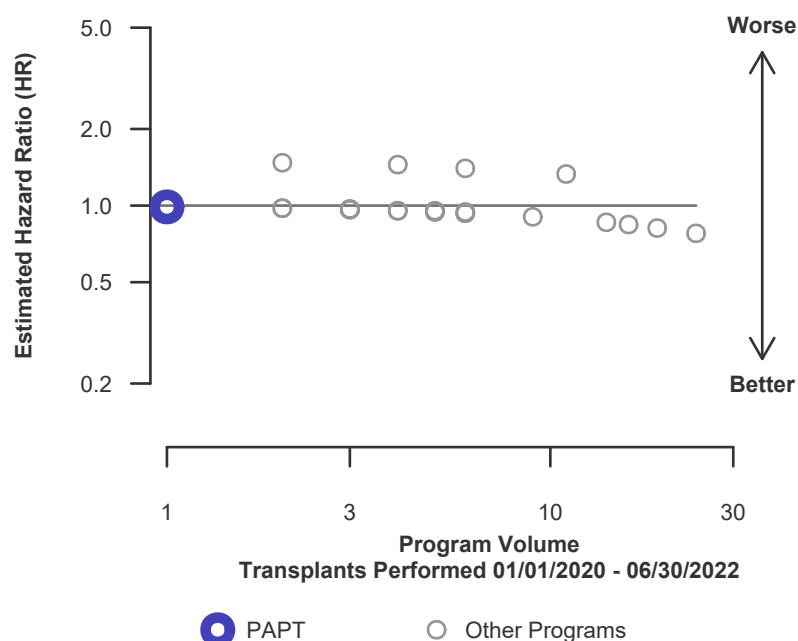


Figure C12L. Pediatric (<18) 1-month living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	1	1,111
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	94.54%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.37%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	59
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.04	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.12, 2.74]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

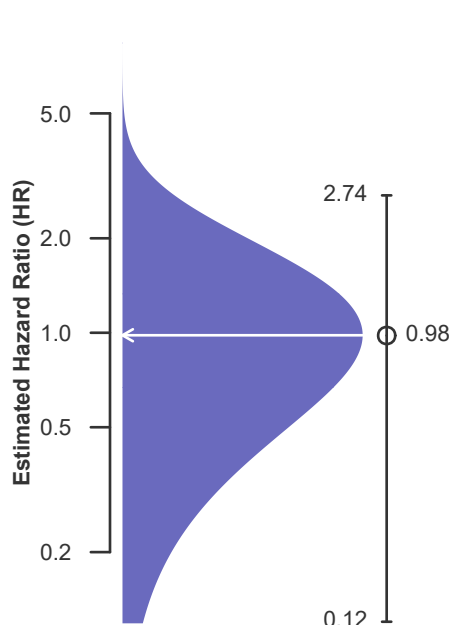
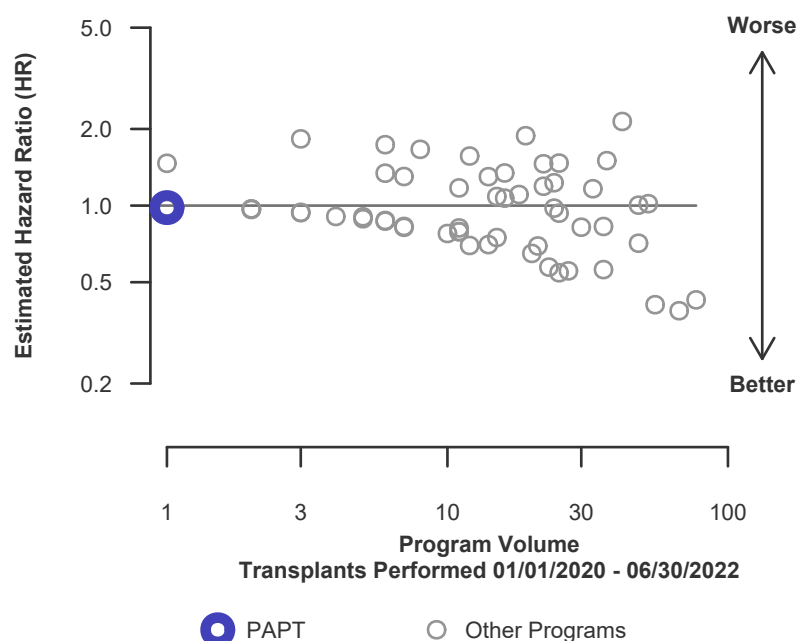


Figure C14. Pediatric (<18) 90-Day graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

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
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022



C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	1	174
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	96.36%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.37%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	6
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.04	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.12, 2.74]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

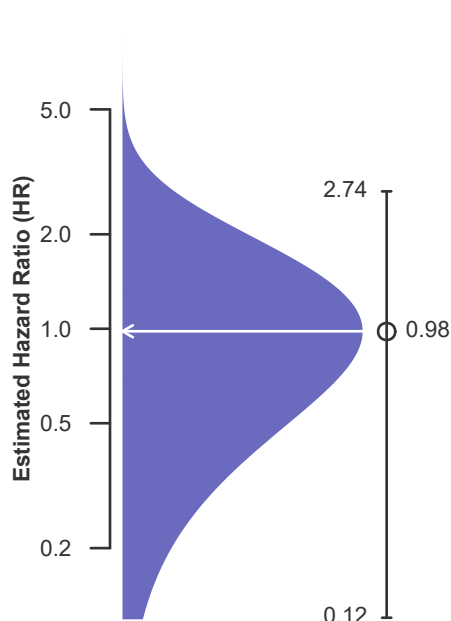
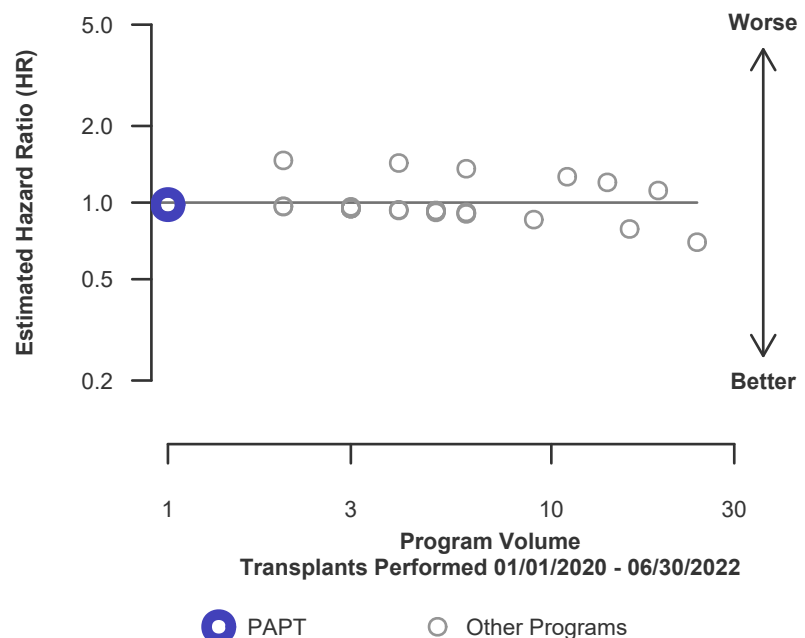


Figure C14L. Pediatric (<18) 90-Day living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	1	1,111
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	92.65%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.82%	--
Number of observed graft failures (including deaths) during the first year after transplant	0	75
Number of expected graft failures (including deaths) during the first year after transplant	0.04	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.12, 2.73]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

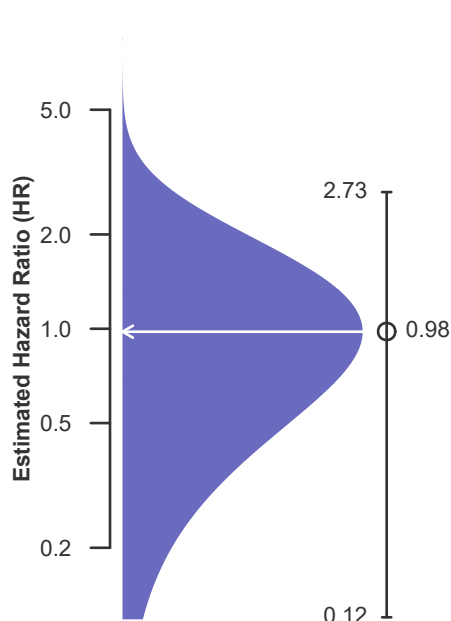
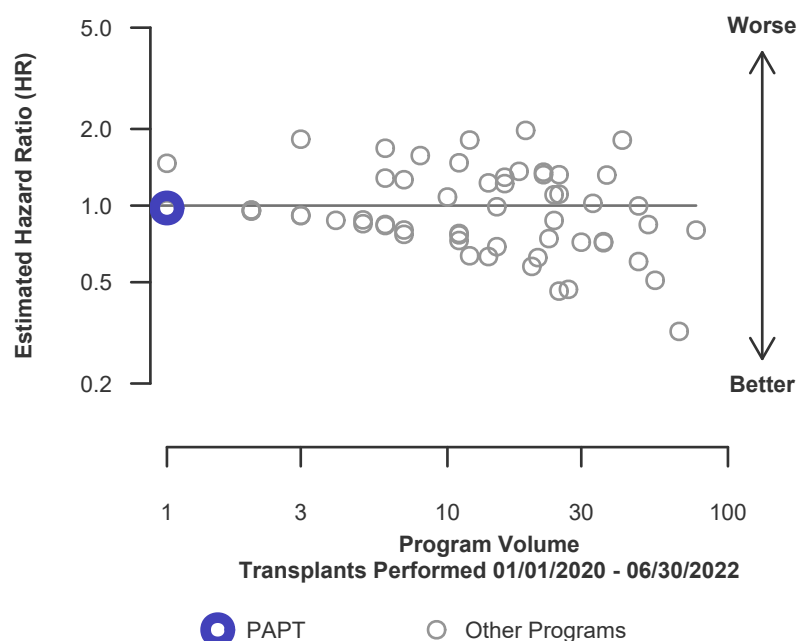


Figure C16. Pediatric (<18) 1-year graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

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
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022



C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	1	174
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	94.81%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.82%	--
Number of observed graft failures (including deaths) during the first year after transplant	0	8
Number of expected graft failures (including deaths) during the first year after transplant	0.04	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.12, 2.73]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

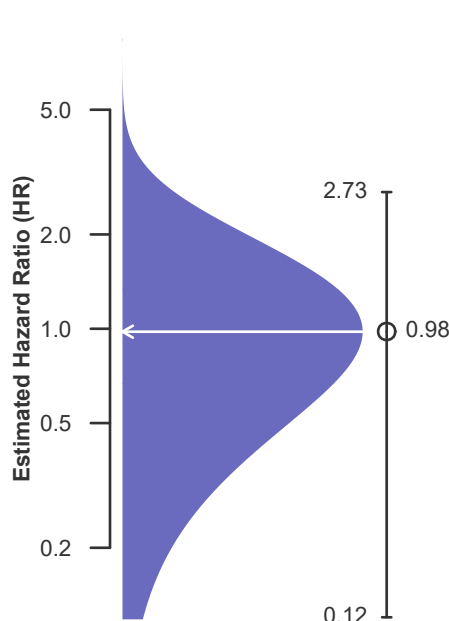
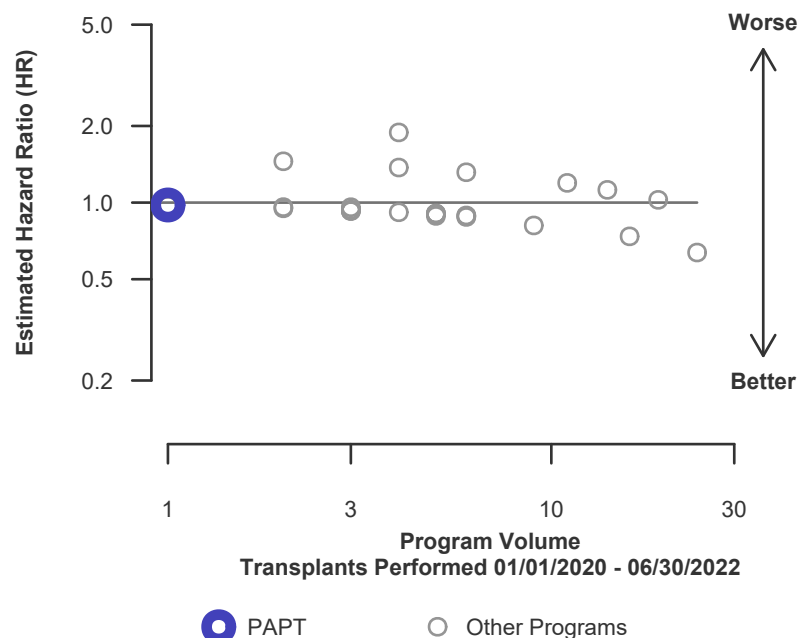


Figure C16L. Pediatric (<18) 1-year living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Deaths and retransplants are considered graft failures

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

	PAPT	U.S.
Number of transplants evaluated	1	958
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	98.00%
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)	98.40%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	16
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, 2.78]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT'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 PAPT's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 88% reduced risk up to 178% increased risk.

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

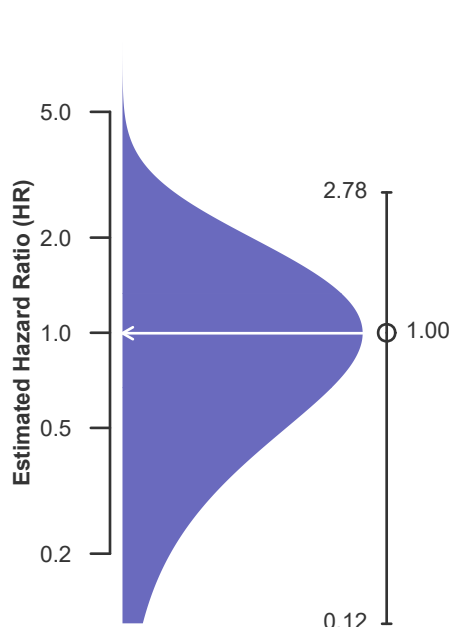
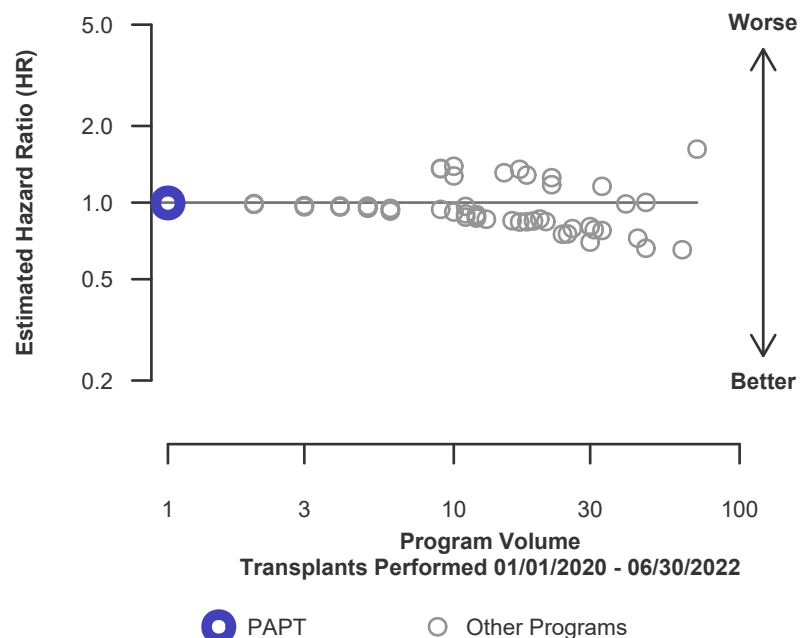


Figure C18. Pediatric (<18) 1-year Conditional graft failure HR program comparison





C. Transplant Information

Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022



C. Transplant Information

Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	PAPT	U.S.
Number of transplants evaluated	1	147
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	98.39%
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)	98.40%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	2
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, 2.78]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT'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 PAPT's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure compared to an average program, but PAPT's performance could plausibly range from 88% reduced risk up to 178% increased risk.

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

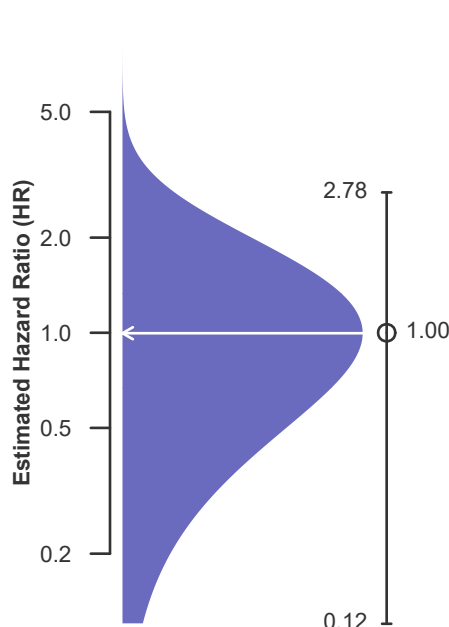
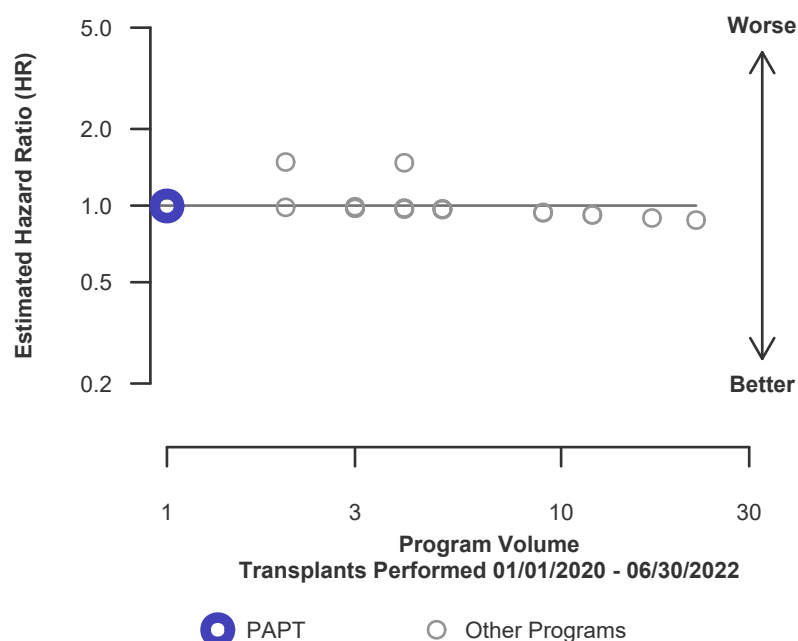


Figure C18L. Pediatric (<18) 1-year Conditional living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Deaths and retransplants are considered graft failures

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

This center did not perform any
transplants relevant to
this table during
07/01/2017-12/31/2019

Figure C19. Pediatric (<18) 3-year graft failure HR estimate

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019

Figure C20. Pediatric (<18) 3-year graft failure HR program comparison

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019



C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Deaths and retransplants are considered graft failures

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

This center did not perform any
transplants relevant to
this table during
07/01/2017-12/31/2019

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

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019

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
07/01/2017-12/31/2019



C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Deaths and retransplants are considered graft failures

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

This center did not perform any
transplants relevant to
this table during
07/01/2017-12/31/2019

Figure C19L. Pediatric (<18) 3-year living donor graft failure HR estimate

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019

Figure C20L. Pediatric (<18) 3-year living donor graft failure HR program comparison

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019



C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	252	16,942
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	97.57%	98.08%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.75%	--
Number of observed deaths during the first month after transplant	6	322
Number of expected deaths during the first month after transplant	3.07	--
Estimated hazard ratio*	1.58	--
95% credible interval for the hazard ratio**	[0.68, 2.85]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.68, 2.85], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 58% higher risk of patient death compared to an average program, but PAPT's performance could plausibly range from 32% reduced risk up to 185% increased risk.

Figure C21. Adult (18+) 1-month patient death HR estimate

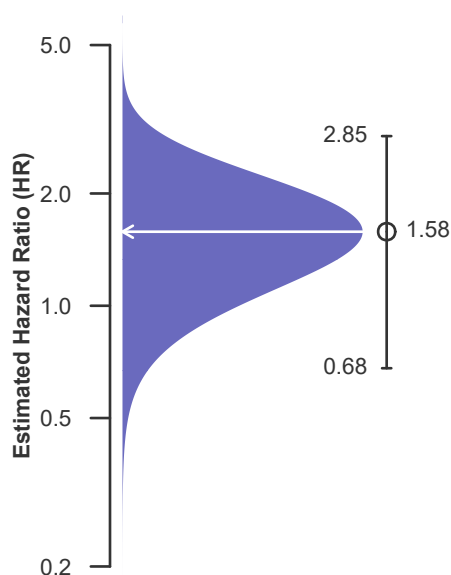
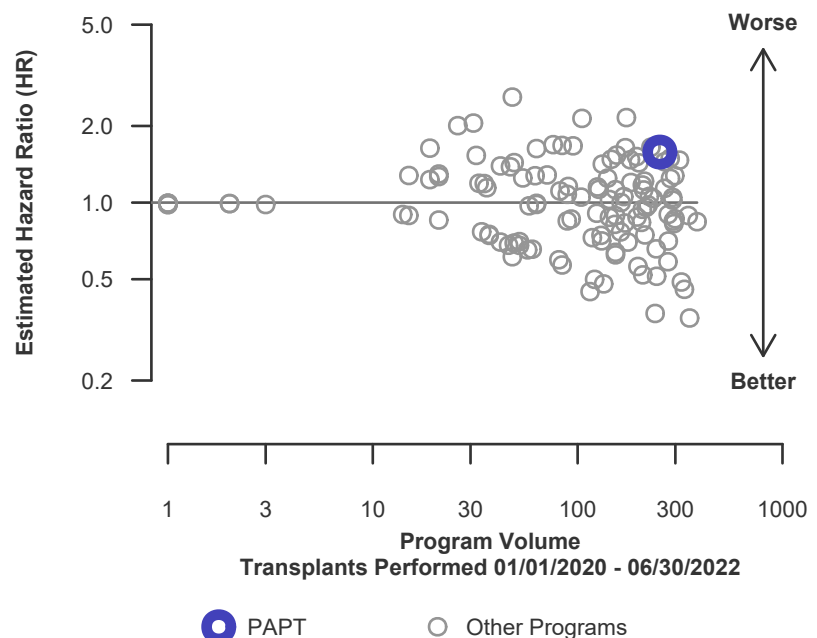


Figure C22. Adult (18+) 1-month patient death HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	91	15,852
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	95.54%	98.01%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.17%	--
Number of observed deaths during the first month after transplant	4	312
Number of expected deaths during the first month after transplant	1.59	--
Estimated hazard ratio*	1.67	--
95% credible interval for the hazard ratio**	[0.61, 3.25]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.61, 3.25], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 67% higher risk of patient death compared to an average program, but PAPT's performance could plausibly range from 39% reduced risk up to 225% increased risk.

Figure C21D. Adult (18+) 1-month patient death HR estimate (deceased donor grafts)

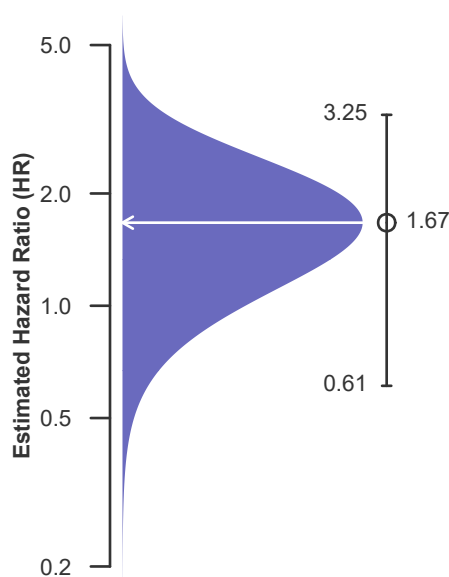
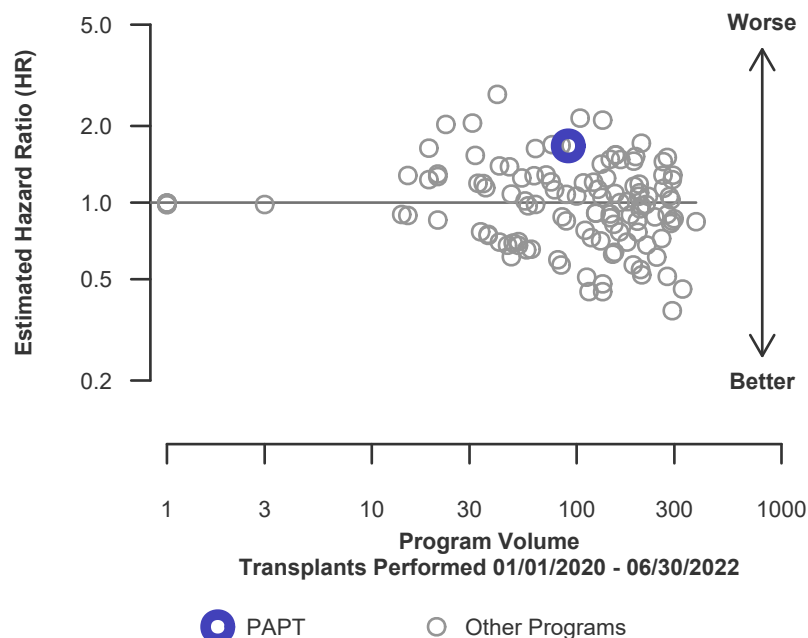


Figure C22D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	161	1,090
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	98.71%	99.07%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.08%	--
Number of observed deaths during the first month after transplant	2	10
Number of expected deaths during the first month after transplant	1.47	--
Estimated hazard ratio*	1.15	--
95% credible interval for the hazard ratio**	[0.31, 2.52]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.31, 2.52], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 15% higher risk of patient death compared to an average program, but PAPT's performance could plausibly range from 69% reduced risk up to 152% increased risk.

Figure C21L. Adult (18+) 1-month patient death HR estimate (living donor grafts)

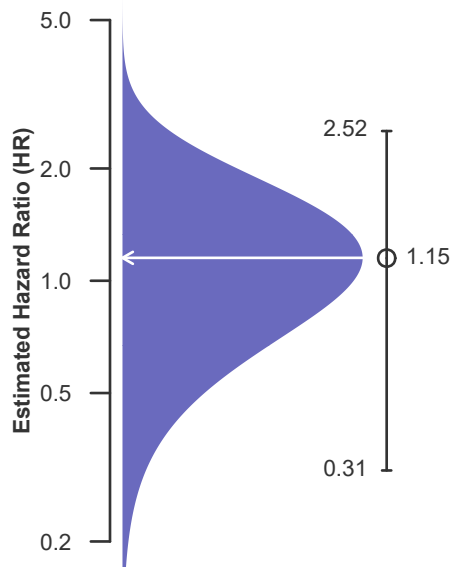
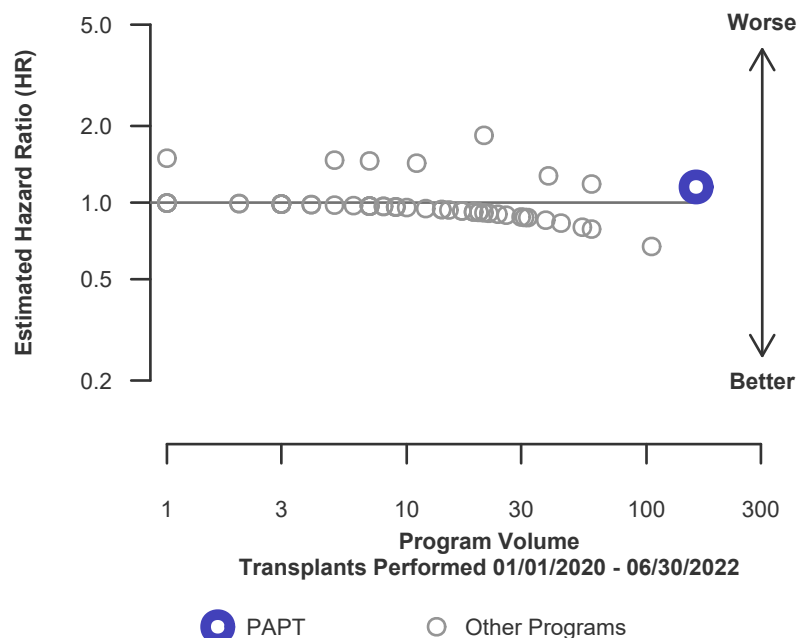


Figure C22L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	252	16,942
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	91.38%	93.71%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.69%	--
Number of observed deaths during the first year after transplant	18	937
Number of expected deaths during the first year after transplant	11.16	--
Estimated hazard ratio*	1.52	--
95% credible interval for the hazard ratio**	[0.93, 2.25]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.93, 2.25], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 52% higher risk of patient death compared to an average program, but PAPT's performance could plausibly range from 7% reduced risk up to 125% increased risk.

Figure C23. Adult (18+) 1-year patient death HR estimate

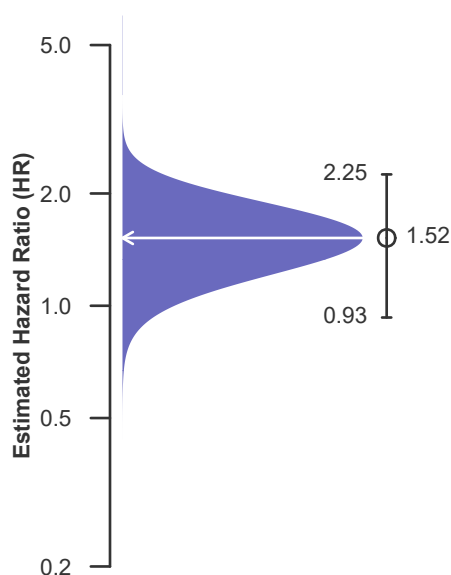
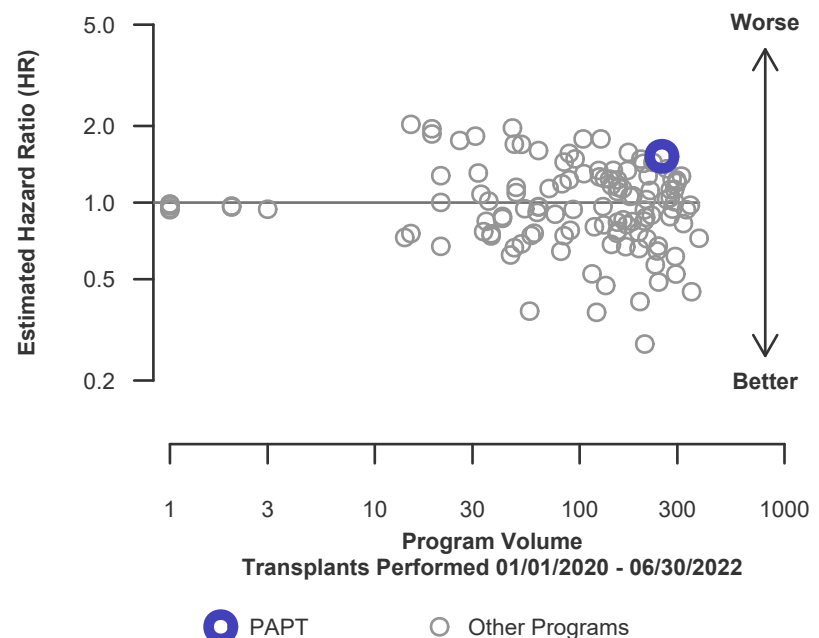


Figure C24. Adult (18+) 1-year patient death HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	91	15,852
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	90.22%	93.61%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.78%	--
Number of observed deaths during the first year after transplant	8	892
Number of expected deaths during the first year after transplant	4.68	--
Estimated hazard ratio*	1.50	--
95% credible interval for the hazard ratio**	[0.72, 2.56]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.72, 2.56], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 50% higher risk of patient death compared to an average program, but PAPT's performance could plausibly range from 28% reduced risk up to 156% increased risk.

Figure C23D. Adult (18+) 1-year patient death HR estimate (deceased donor grafts)

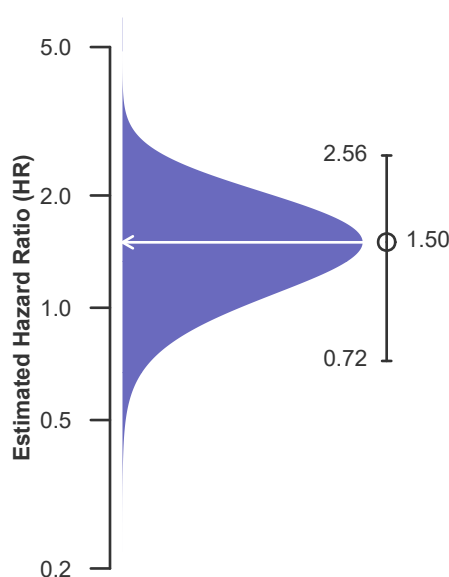
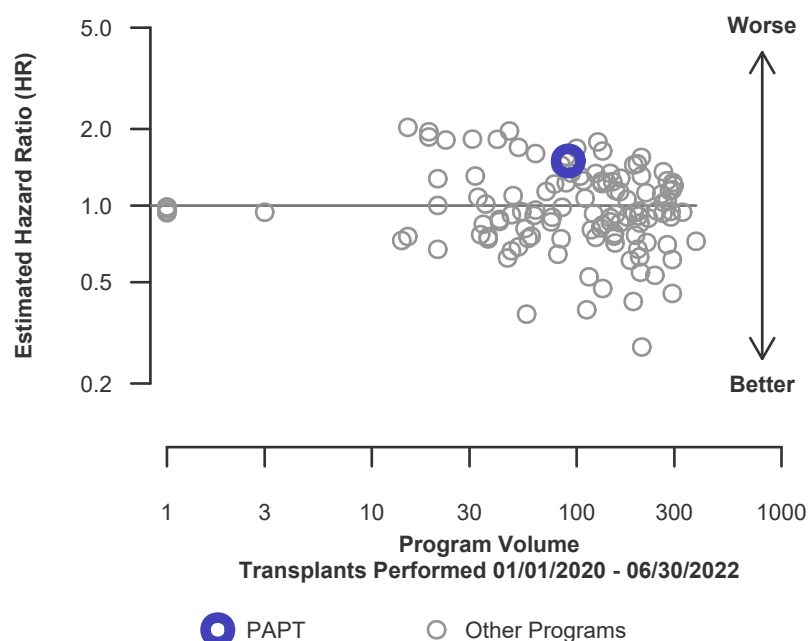


Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	161	1,090
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	92.02%	95.20%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.21%	--
Number of observed deaths during the first year after transplant	10	45
Number of expected deaths during the first year after transplant	6.49	--
Estimated hazard ratio*	1.41	--
95% credible interval for the hazard ratio**	[0.73, 2.32]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.73, 2.32], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 41% higher risk of patient death compared to an average program, but PAPT's performance could plausibly range from 27% reduced risk up to 132% increased risk.

Figure C23L. Adult (18+) 1-year patient death HR estimate (living donor grafts)

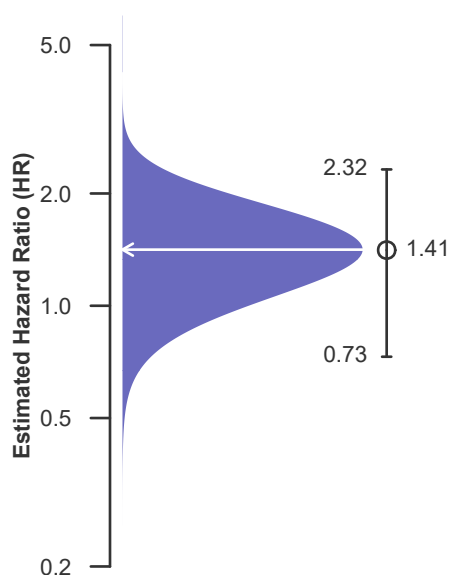
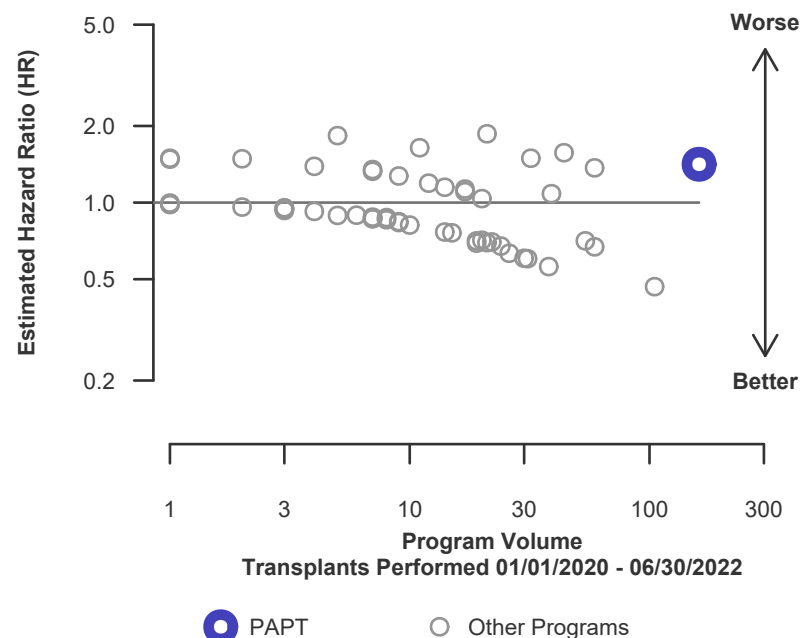


Figure C24L. Adult (18+) 1-year patient death HR program comparison (living donor grafts)





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	273	17,167
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	91.12%	89.26%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.83%	--
Number of observed deaths during the first 3 years after transplant	15	1,233
Number of expected deaths during the first 3 years after transplant	16.82	--
Estimated hazard ratio*	0.90	--
95% credible interval for the hazard ratio**	[0.53, 1.38]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.53, 1.38], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 10% lower risk of patient death compared to an average program, but PAPT's performance could plausibly range from 47% reduced risk up to 38% increased risk.

Figure C25. Adult (18+) 3-year patient death HR estimate

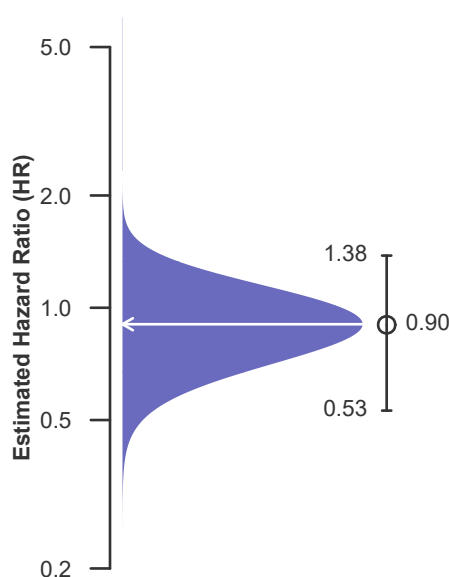
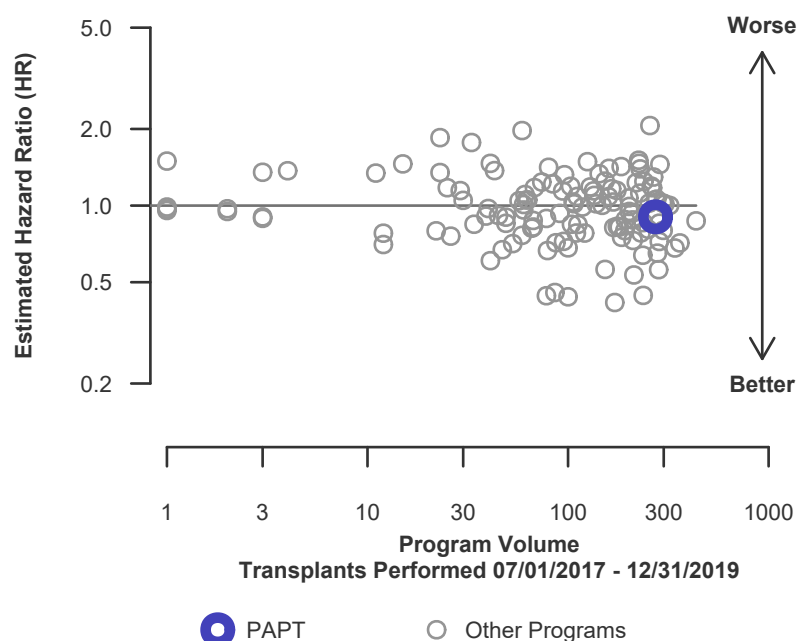


Figure C26. Adult (18+) 3-year patient death HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	113	16,248
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	91.09%	89.10%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.79%	--
Number of observed deaths during the first 3 years after transplant	5	1,187
Number of expected deaths during the first 3 years after transplant	8.88	--
Estimated hazard ratio*	0.64	--
95% credible interval for the hazard ratio**	[0.26, 1.20]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.26, 1.20], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 36% lower risk of patient death compared to an average program, but PAPT's performance could plausibly range from 74% reduced risk up to 20% increased risk.

Figure C25D. Adult (18+) 3-year patient death HR estimate (deceased donor grafts)

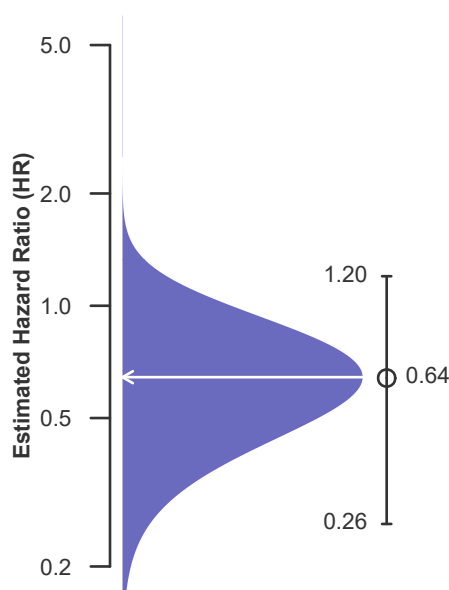
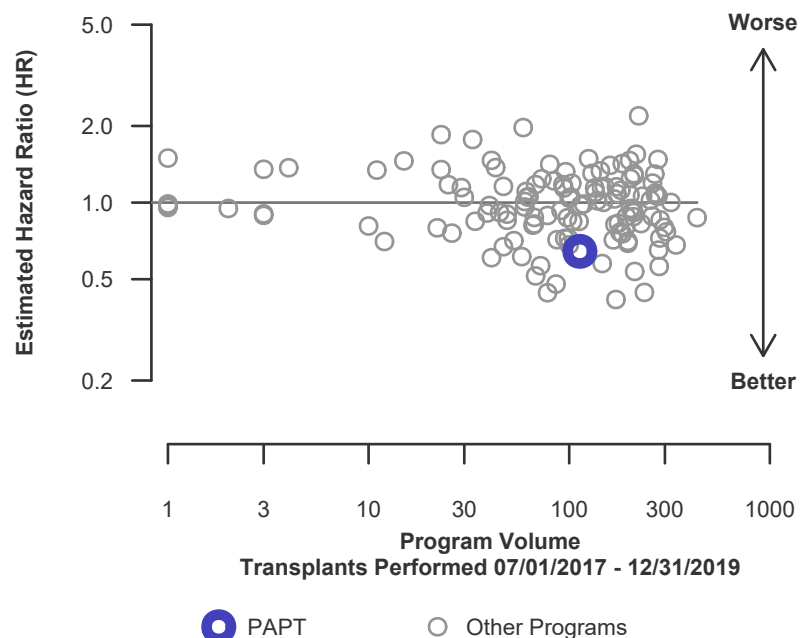


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	160	919
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	90.86%	92.26%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.27%	--
Number of observed deaths during the first 3 years after transplant	10	46
Number of expected deaths during the first 3 years after transplant	7.94	--
Estimated hazard ratio*	1.21	--
95% credible interval for the hazard ratio**	[0.62, 1.98]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.62, 1.98], indicates the location of PAPT's true hazard ratio with 95% probability. The best estimate is 21% higher risk of patient death compared to an average program, but PAPT's performance could plausibly range from 38% reduced risk up to 98% increased risk.

Figure C25L. Adult (18+) 3-year patient death HR estimate (living donor grafts)

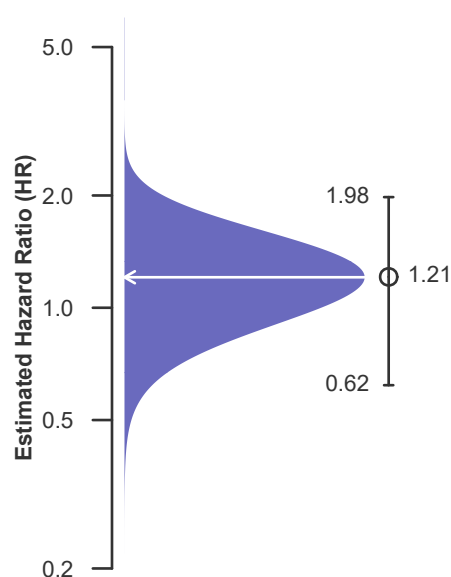
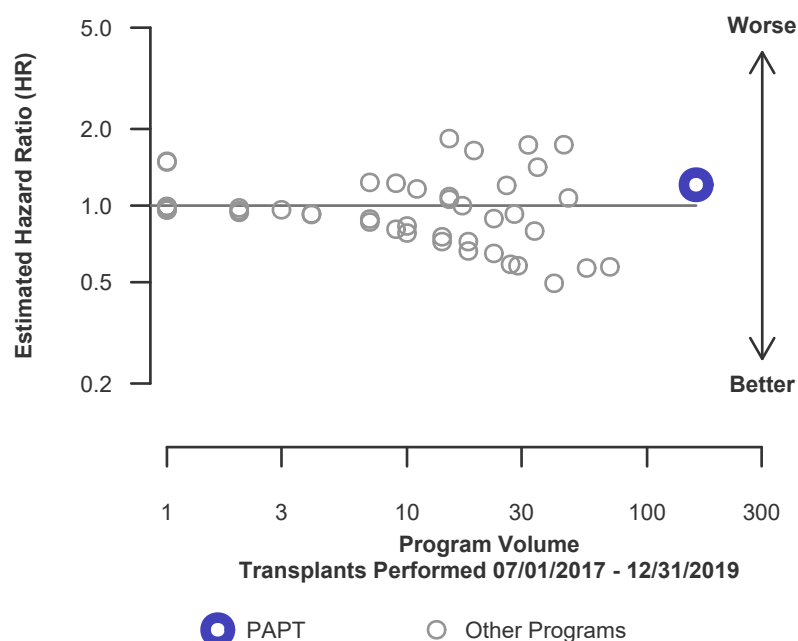


Figure C26L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	1	1,051
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.79%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.63%	--
Number of observed deaths during the first month after transplant	0	23
Number of expected deaths during the first month after transplant	0.02	--
Estimated hazard ratio*	0.99	--
95% credible interval for the hazard ratio**	[0.12, 2.75]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

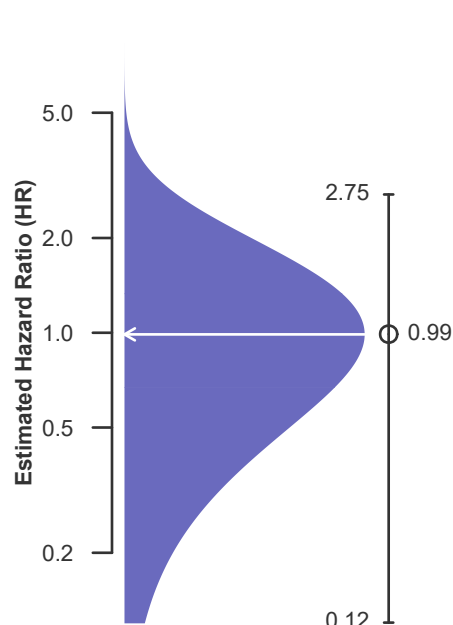
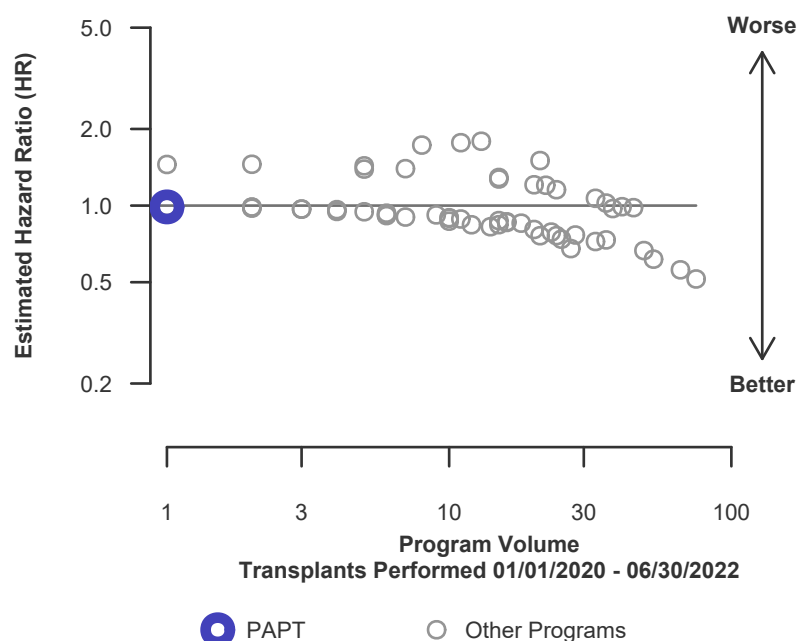


Figure C28. Pediatric (<18) 1-month patient death HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

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
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022



C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	1	172
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.62%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.63%	--
Number of observed deaths during the first month after transplant	0	4
Number of expected deaths during the first month after transplant	0.02	--
Estimated hazard ratio*	0.99	--
95% credible interval for the hazard ratio**	[0.12, 2.75]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

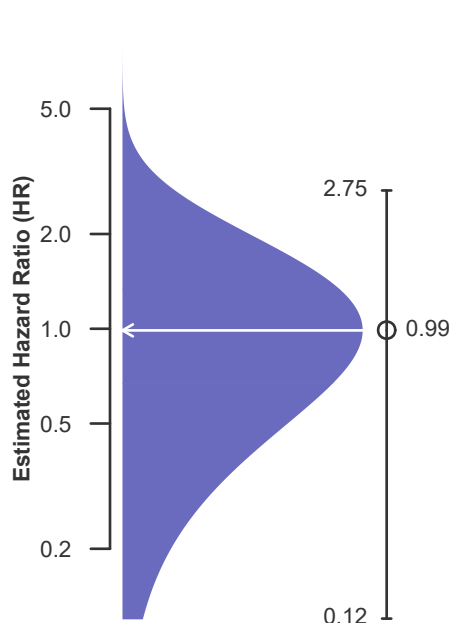
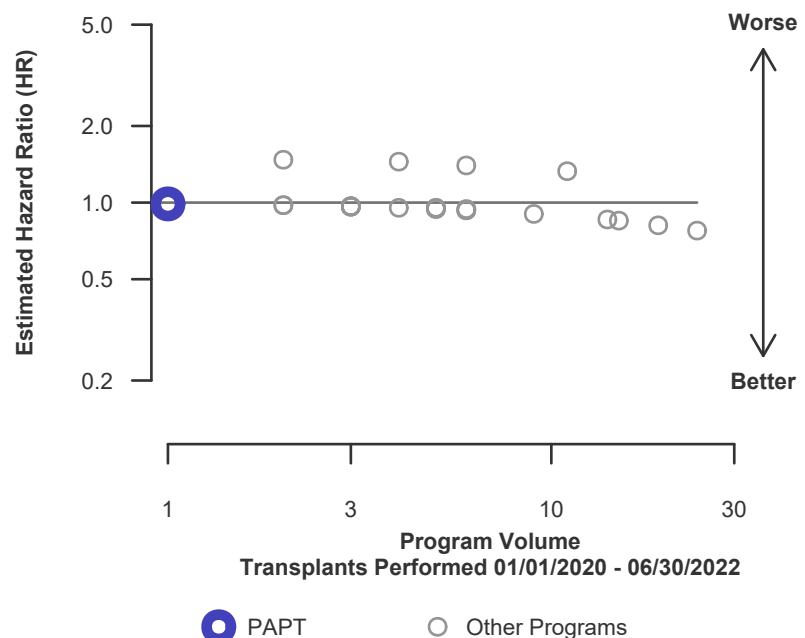


Figure C28L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	1	1,051
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	94.69%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.75%	--
Number of observed deaths during the first year after transplant	0	50
Number of expected deaths during the first year after transplant	0.04	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.12, 2.73]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

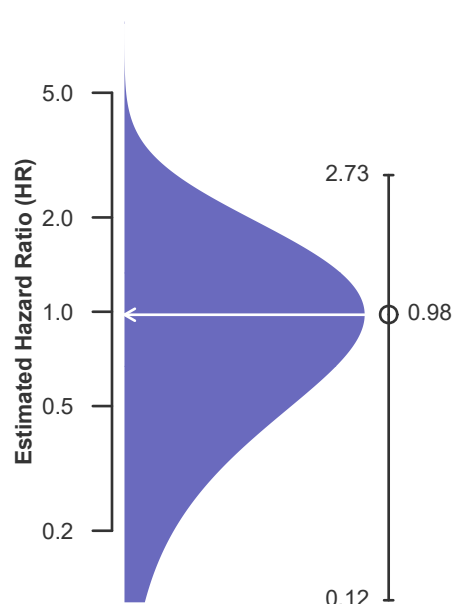
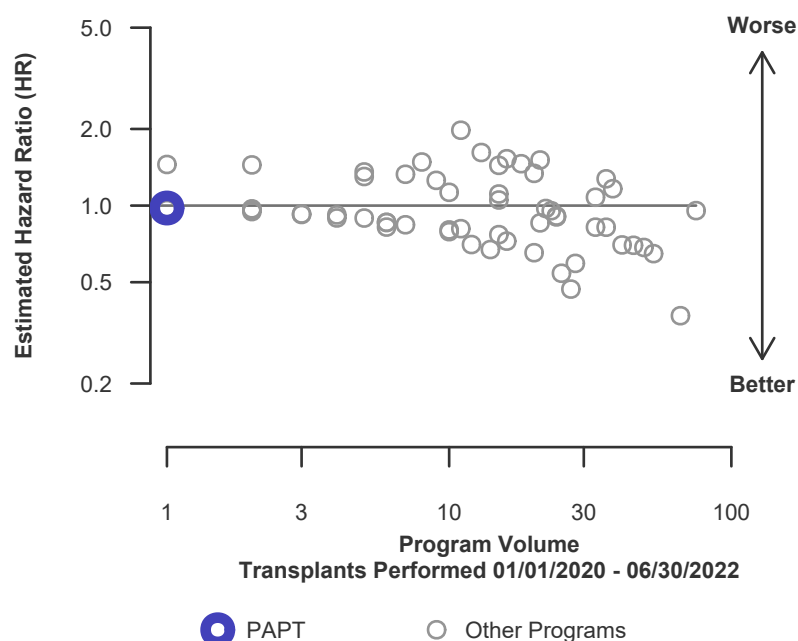


Figure C30. Pediatric (<18) 1-year patient death HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

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
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022

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

This center did not perform any
transplants relevant to
this figure during
01/01/2020-06/30/2022



C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022

Retransplants excluded

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

	PAPT	U.S.
Number of transplants evaluated	1	172
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	94.74%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.75%	--
Number of observed deaths during the first year after transplant	0	8
Number of expected deaths during the first year after transplant	0.04	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.12, 2.73]	--

* The hazard ratio provides an estimate of how University of Pittsburgh Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If PAPT's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

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

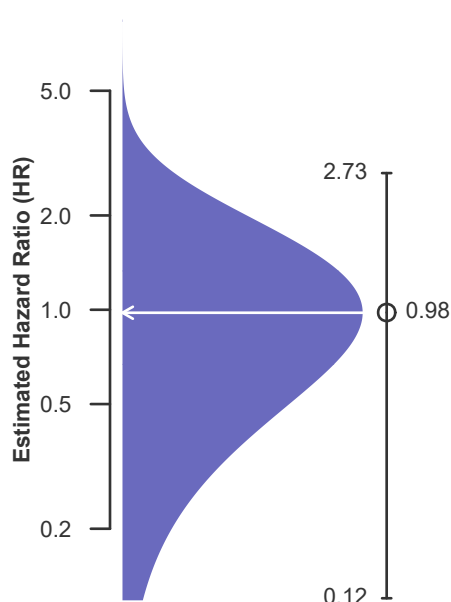
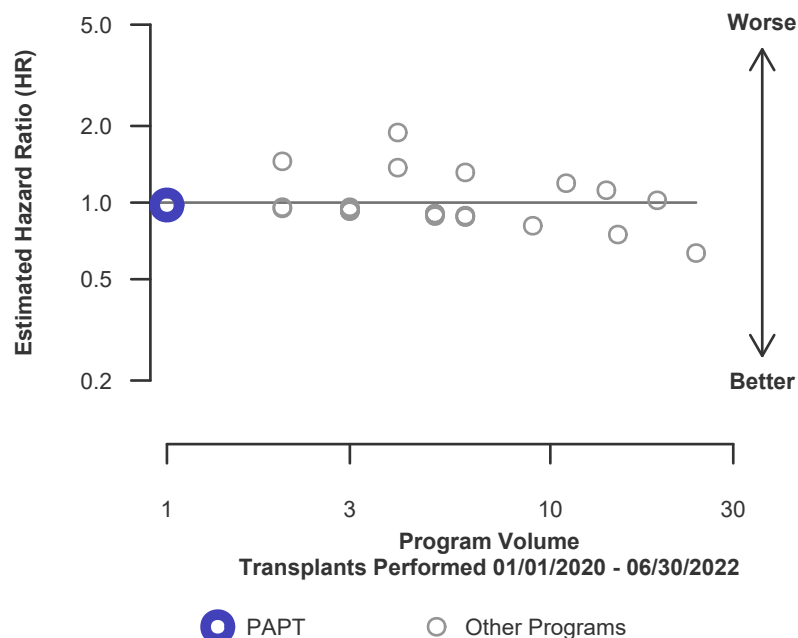


Figure C30L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)





C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Retransplants excluded

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

This center did not perform any
transplants relevant to
this table during
07/01/2017-12/31/2019

Figure C31. Pediatric (<18) 3-year patient death HR estimate

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019

Figure C32. Pediatric (<18) 3-year patient death HR program comparison

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019



C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Retransplants excluded

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

This center did not perform any
transplants relevant to
this table during
07/01/2017-12/31/2019

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

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019

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
07/01/2017-12/31/2019



C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019

Retransplants excluded

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

This center did not perform any
transplants relevant to
this table during
07/01/2017-12/31/2019

Figure C31L. Pediatric (<18) 3-year patient death HR estimate (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019

Figure C32L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2017-12/31/2019



C. Transplant Information

Table C21. Multi-organ transplant graft survival: 01/01/2020 - 06/30/2022

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Liver Graft Failures		Estimated Liver Graft Survival	
	PAPT-TX1	USA	PAPT-TX1	USA	PAPT-TX1	USA
Kidney-Liver	6	1,905	1	200	83.3%	89.5%
Liver-Heart	1	127	0	26	100.0%	79.5%
Pancreas-Liver-Intestine	1	40	0	20	100.0%	50.0%

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 01/01/2020 - 06/30/2022

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Patient Deaths		Estimated Patient Survival	
	PAPT-TX1	USA	PAPT-TX1	USA	PAPT-TX1	USA
Kidney-Liver	6	1,905	1	189	83.3%	90.1%
Liver-Heart	1	127	0	25	100.0%	80.3%
Pancreas-Liver-Intestine	1	40	0	19	100.0%	52.5%

Pediatric (<18) Transplants

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



D. Living Donor Information

Table D1. Living donor summary: 01/01/2020 - 12/31/2022

Living Donor Follow-Up	This Center			United States		
	01/2020- 12/2020	01/2021- 12/2021	01/2022- 06/2022	01/2020- 12/2020	01/2021- 12/2021	01/2022- 06/2022
Number of Living Donors	102	76	35	485	566	294
6-Month Follow-Up						
Donors due for follow-up	24	76	27	127	566	241
Timely clinical data	20 83.3%	65 85.5%	23 85.2%	105 82.7%	501 88.5%	198 82.2%
Timely lab data	20 83.3%	64 84.2%	23 85.2%	109 85.8%	497 87.8%	196 81.3%
12-Month Follow-Up						
Donors due for follow-up	72	73		359	515	
Timely clinical data	58 80.6%	60 82.2%		299 83.3%	419 81.4%	
Timely lab data	56 77.8%	59 80.8%		300 83.6%	407 79.0%	
24-Month Follow-Up						
Donors due for follow-up	95			442		
Timely clinical data	64 67.4%			324 73.3%		
Timely lab data	61 64.2%			309 69.9%		

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