



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, 1-year, 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. The reports released in January 2021 made adjustments to transplant program and OPO performance metrics so that data beyond the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

The SRTR Review Committee (SRC) reviewed the metrics at its meetings on January 20, 2021, and February 9, 2021, with the goal of determining whether continued adjustments are necessary, or if the SRTR should resume regular reporting of transplant program and OPO performance metrics. The committee reviewed data on how the pandemic has affected the nation's transplant system, and the extent to which the effects varied geographically and temporally. The committee made the following recommendations to SRTR. These recommendations were reviewed by the Health Resources and Services Administration's (HRSA's) Division of Transplantation, which oversees the SRTR. HRSA approved of these recommendations which the SRTR will implement for the July 2021 reporting cycle:

Posttransplant Outcomes (including 1-month, 1-year, and 3-year graft and patient survival):
Evaluations cohorts will continue to exclude transplants and follow-up time beyond March 12, 2020.

1-month & 1-year Patient and Graft Survival Evaluations: Transplants 1/1/2018-3/12/2020;
follow-up through 3/12/2020.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2015-12/31/2017; follow-up
through 3/12/2020.

Pre-Transplant Mortality Rate (formerly called Waitlist Mortality Rate): Evaluation cohorts will be
modified on an organ-specific basis:

Kidney and Lung: Candidates on the waitlist 1/1/2019-3/12/2020.

Liver, Heart, Pancreas, and Intestine: Candidates on the waitlist 1/1/2019-12/31/2020.

Transplant Rate: The first quarter following declaration of a national emergency will be excluded
from the transplant rate evaluations for all organ types.

Candidates on the waitlist 1/1/2019-3/12/2020 and 6/13/2020-12/31/2020.



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Overall Rate of Mortality After Listing: Patient follow-up will continue to be truncated on 3/12/2020:

Evaluation period: 1/1/2019-3/12/2020.

Offer Acceptance Rate: These evaluations will return to normal reporting cohorts.

Offers received 1/1/2020-12/31/2020.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 6, 2021. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's 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 2022.

As with the January 2021 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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This report contains a wide range of useful information about the kidney transplant program at University of Washington Medical Center (WAUW). 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 40.6 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at <http://www.srtr.org> for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2015 and 06/30/2020. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.8 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2020 to calculate a particular percentile of transplant times.

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



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of offers.

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

Starting with Table C5, transplant outcomes are presented along with comparisons to what would be expected at this program and what happened in the nation as a whole. Tables C5-C10 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-C10 present data on graft survival, Tables C11-C16 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 C17 and C18 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

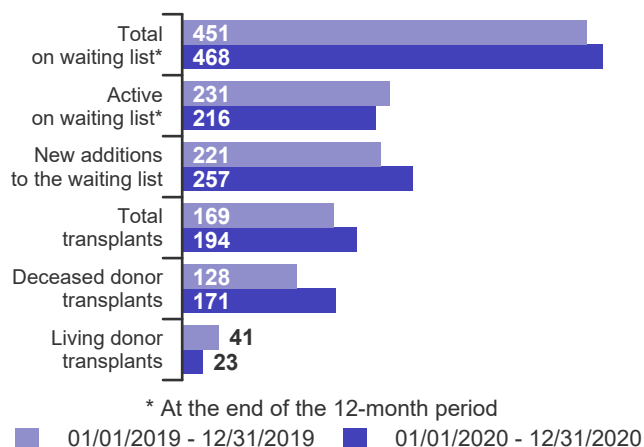


Table A1. Census of transplant recipients

Recipients	01/01/2019-12/31/2019	01/01/2020-12/31/2020
Transplanted at this center	169	194
Followed by this center*	979	904
...transplanted at this program	931	872
...transplanted elsewhere	48	32

* 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
01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

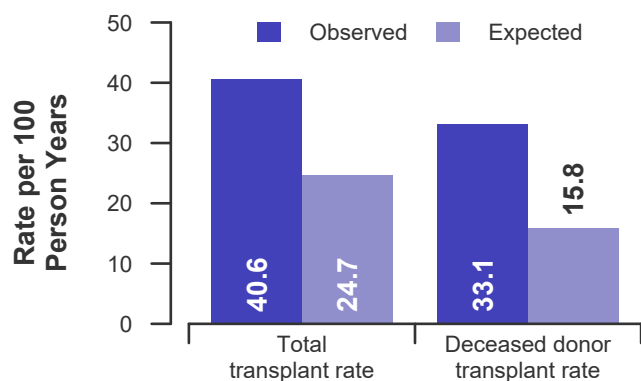


Figure A3. Pre-transplant mortality rates
01/01/2019 - 03/12/2020

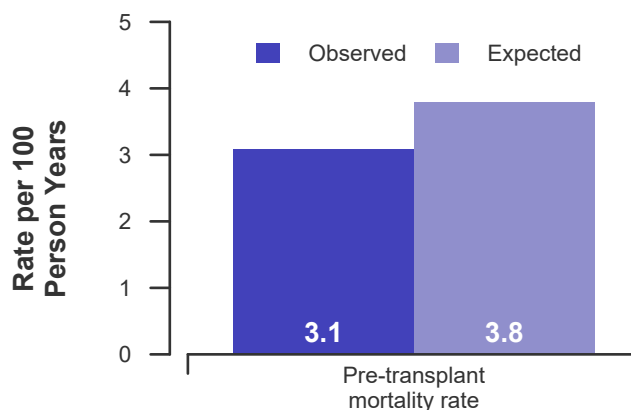


Figure A4. First-year adult graft and patient survival: 01/01/2018 - 03/12/2020

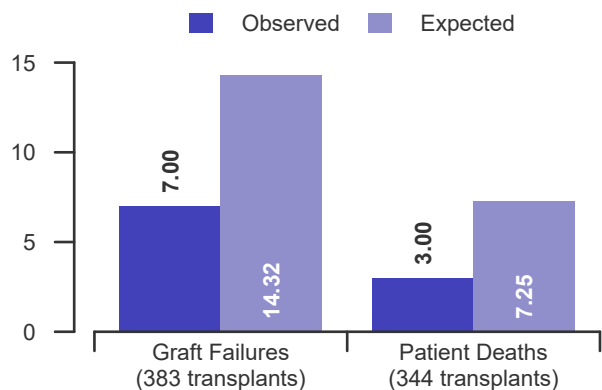


Figure A5. First-year pediatric graft and patient survival: 01/01/2018 - 03/12/2020

This center did not perform any transplants relevant to this figure during 01/01/2018-03/12/2020



B. Waiting List Information

Table B1. Waiting list activity summary: 01/01/2019 - 12/31/2020

Waiting List Registrations	Counts for this center		Activity for 01/01/2020 to 12/31/2020 as percent of registrants on waiting list on 01/01/2020		
	01/01/2019-12/31/2019	01/01/2020-12/31/2020	This Center (%)	OPTN Region (%)	U.S. (%)
On waiting list at start	472	451	100.0	100.0	100.0
Additions					
New listings at this center	221	257	57.0	44.5	37.2
Removals					
Transferred to another center	5	3	0.7	1.1	1.5
Received living donor transplant*	41	23	5.1	5.1	5.1
Received deceased donor transplant*	128	171	37.9	26.8	17.3
Died	6	15	3.3	2.3	4.8
Transplanted at another center	3	3	0.7	0.9	3.9
Deteriorated	21	12	2.7	4.3	3.8
Recovered	7	1	0.2	0.1	0.2
Other reasons	31	12	2.7	2.8	4.4
On waiting list at end of period	451	468	103.8	101.0	96.2

* 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 01/01/2020 and 12/31/2020**

Demographic Characteristic	New Waiting List Registrations 01/01/2020 to 12/31/2020 (%)			All Waiting List Registrations on 12/31/2020 (%)		
	This Center (N=257)	OPTN Region (N=1,100)	U.S. (N=37,653)	This Center (N=468)	OPTN Region (N=2,497)	U.S. (N=97,493)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	49.8	51.0	42.0	51.3	49.5	35.2
African-American	10.9	7.9	28.4	10.0	9.1	32.0
Hispanic/Latino	14.0	13.2	19.7	14.7	11.8	21.1
Asian	22.2	23.6	8.2	20.9	24.7	9.9
Other	3.1	4.3	1.8	3.0	4.8	1.8
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	0.0	0.3	0.2	0.0	0.2	0.1
2-11 years	0.0	1.2	1.0	0.0	0.9	0.6
12-17 years	0.0	1.7	1.7	0.0	1.3	1.1
18-34 years	10.9	11.2	10.6	10.3	9.2	10.3
35-49 years	21.8	22.6	24.2	22.6	23.6	26.9
50-64 years	39.7	38.3	41.4	44.7	43.3	43.4
65-69 years	17.1	14.5	13.1	15.2	14.0	12.1
70+ years	10.5	10.3	7.8	7.3	7.4	5.6
Gender (%)						
Male	64.6	65.2	62.5	60.3	61.8	62.0
Female	35.4	34.8	37.5	39.7	38.2	38.0

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



B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates

Candidates registered on the waiting list between 01/01/2020 and 12/31/2020

Medical Characteristic	New Waiting List Registrations 01/01/2020 to 12/31/2020 (%)			All Waiting List Registrations on 12/31/2020 (%)		
	This Center (N=257)	OPTN Region (N=1,100)	U.S. (N=37,653)	This Center (N=468)	OPTN Region (N=2,497)	U.S. (N=97,493)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
O	40.1	43.7	49.1	49.6	50.2	53.9
A	35.8	36.5	32.3	31.8	31.4	27.0
B	19.5	15.0	14.8	15.2	14.5	16.6
AB	4.7	4.8	3.7	3.4	3.9	2.4
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	7.8	9.6	12.9	15.4	13.3	13.8
No	92.2	90.4	87.1	84.6	86.7	86.2
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Initial CPRA (%)						
0-9%	84.0	78.7	79.8	76.5	78.4	79.8
10-79%	9.3	14.6	12.8	15.4	14.1	12.8
80+%	6.6	6.6	7.2	8.1	7.5	7.3
Unknown	0.0	0.0	0.1	0.0	0.0	0.1
Primary Disease (%)*						
Glomerular Diseases	22.6	25.4	18.7	26.3	24.9	18.7
Tubular and Interstitial Diseases	5.1	5.0	3.6	4.9	5.2	3.6
Polycystic Kidneys	12.5	9.3	7.2	11.1	10.0	6.8
Congenital, Familial, Metabolic	0.8	2.5	2.4	1.3	2.5	1.9
Diabetes	26.5	31.5	35.0	27.1	32.2	37.0
Renovascular & Vascular Diseases	0.0	0.0	0.1	0.0	0.0	0.1
Neoplasms	0.4	0.4	0.4	0.4	0.6	0.3
Hypertensive Nephrosclerosis	16.3	11.8	19.5	12.6	12.2	21.0
Other	15.6	13.5	12.7	14.7	11.7	10.1
Missing*	0.4	0.6	0.5	1.5	0.7	0.4

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



B. Waiting List Information

Table B4. Transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	472	1,480	2,470	100,467
Person Years**	804.8	2,589.3	4,334.7	175,201.3
Removals for Transplant	327	813	1,450	41,518
Adult (18+) Candidates				
Count on waiting list at start*	472	1,421	2,400	98,920
Person Years**	804.8	2,492.5	4,217.0	172,392.6
Removals for transplant	327	762	1,384	39,982
Pediatric (<18) Candidates				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Removals for transplant	--	--	--	--

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

** Person years are calculated as days (converted to fractional years). The number of days from 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: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

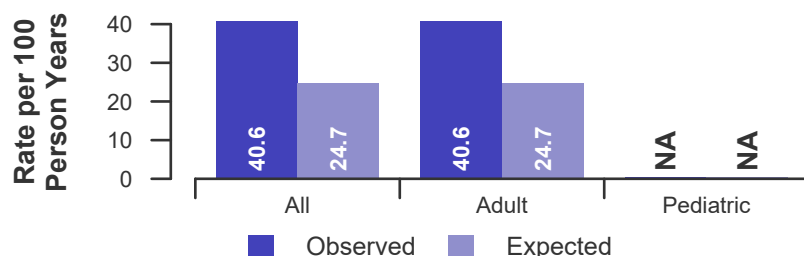


Figure B2. Transplant rate ratio estimate

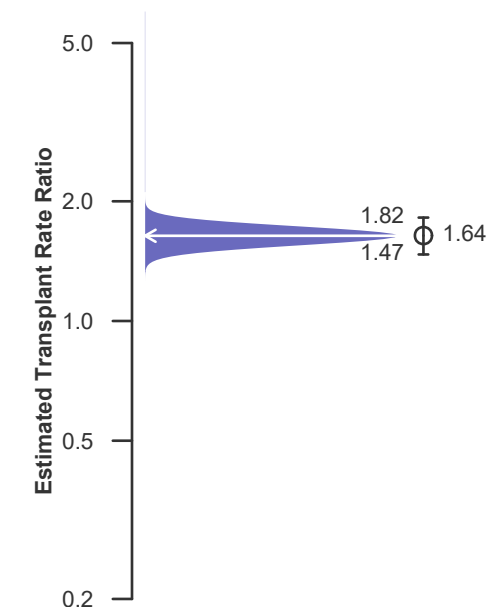
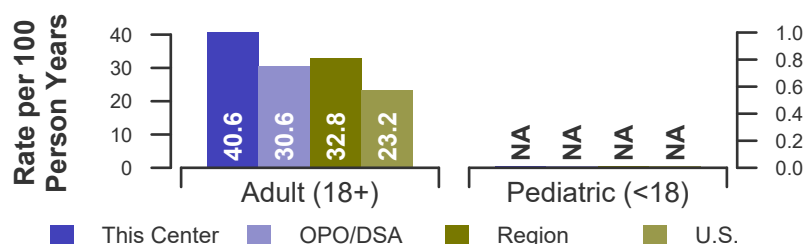


Figure B3. Observed adult (18+) and pediatric (<18) transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020





B. Waiting List Information

Table B4D. Deceased donor transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	472	1,480	2,470	100,467
Person Years**	804.8	2,589.3	4,334.7	175,201.3
Removals for Transplant	266	625	1,142	30,186
Adult (18+) Candidates				
Count on waiting list at start*	472	1,421	2,400	98,920
Person Years**	804.8	2,492.5	4,217.0	172,392.6
Removals for transplant	266	586	1,095	29,130
Pediatric (<18) Candidates				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Removals for transplant	--	--	--	--

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

** Person years are calculated as days (converted to fractional years). The number of days from 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: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

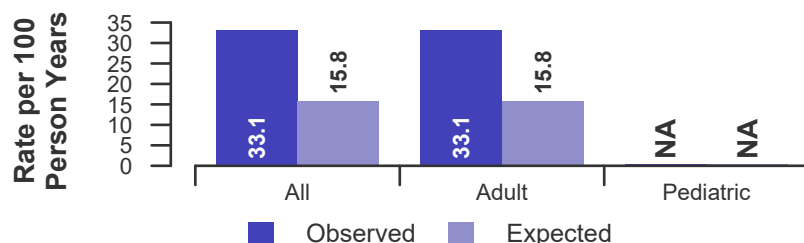


Figure B2D. Deceased donor transplant rate ratio estimate

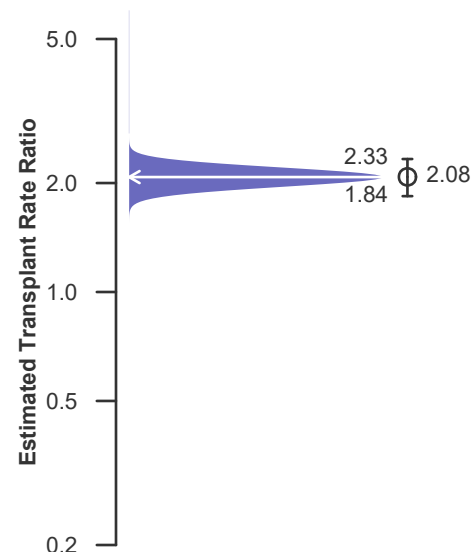
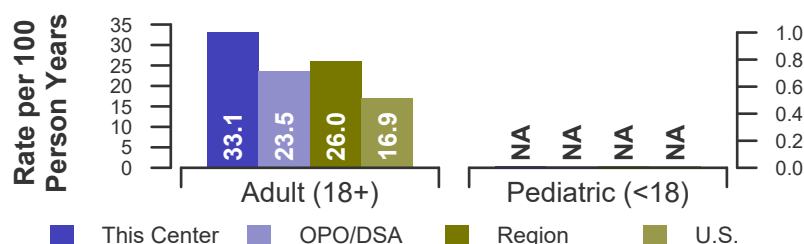


Figure B3D. Observed adult (18+) and pediatric (<18) deceased donor transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020





B. Waiting List Information

Table B5. Pre-transplant mortality rates: 01/01/2019 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	472	1,480	2,470	100,467
Person Years**	583.3	1,896.1	3,156.0	127,632.2
Number of deaths	18	58	85	5,897
Adult (18+) Candidates				
Count on waiting list at start*	472	1,421	2,400	98,920
Person Years**	583.3	1,831.3	3,075.8	125,703.4
Number of deaths	18	57	84	5,873
Pediatric (<18) Candidates				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Number of deaths	--	--	--	--

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

** Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or March 12, 2020.

Figure B4. Observed and expected pre-transplant mortality rates: 01/01/2019 - 03/12/2020

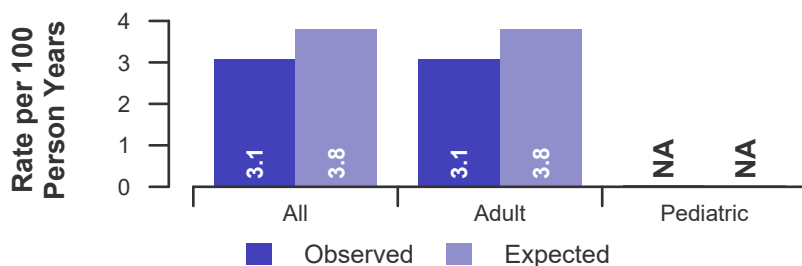


Figure B6. Observed adult (18+) and pediatric (<18) pre-transplant mortality rates: 01/01/2019 - 03/12/2020

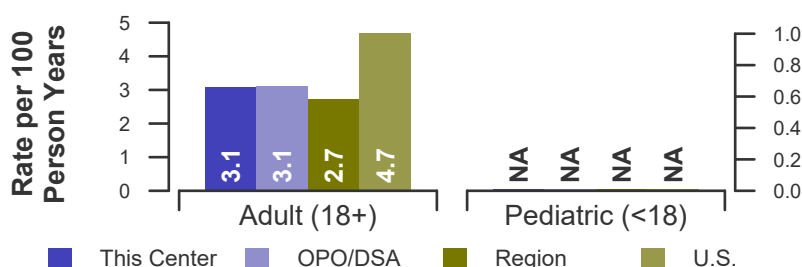
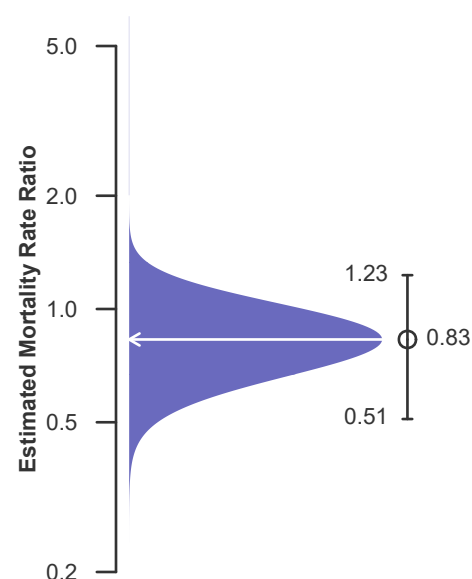


Figure B5. Pre-transplant mortality rate ratio estimate





B. Waiting List Information

Table B6. Rates of patient mortality after listing: 01/01/2019 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	1,594	4,652	8,126	272,409
Person-years*	1,614.0	4,670.8	7,955.8	270,487.4
Number of Deaths	43	155	248	11,492
Adult (18+) Patients				
Count at risk during the evaluation period	1,594	4,451	7,846	264,371
Person-years*	1,614.0	4,454.7	7,661.2	262,258.5
Number of Deaths	43	153	246	11,440
Pediatric (<18) Patients				
Count at risk during the evaluation period	0	201	280	8,038
Person-years*	0.0	216.2	294.6	8,229.0
Number of Deaths	0	2	2	52

* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2019, or from the date of first wait listing until death, reaching 7 years after listing or March 12, 2020.

** 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: 01/01/2019 - 03/12/2020

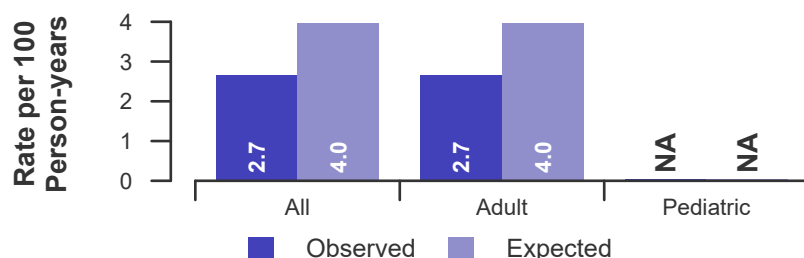


Figure B8. HR estimate of patient mortality after listing

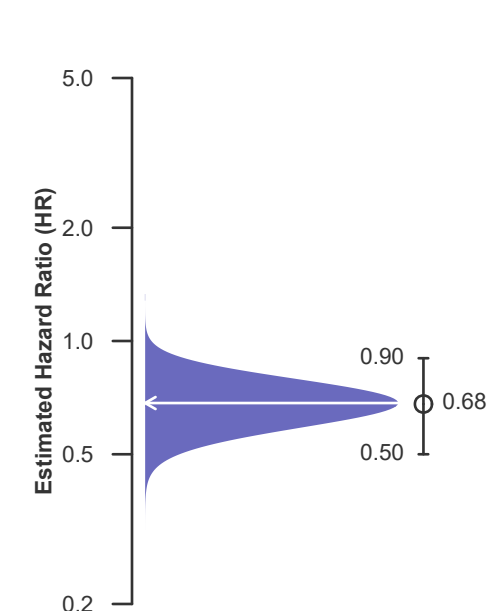
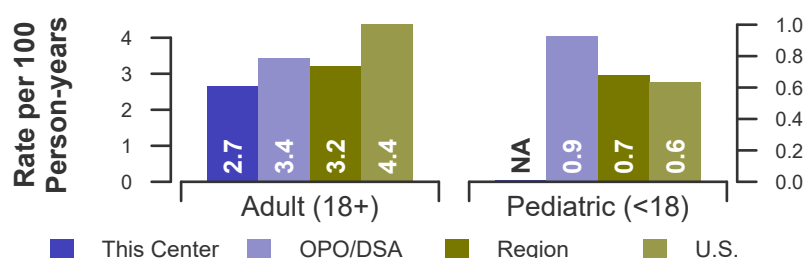


Figure B9. Observed adult (18+) and pediatric (<18) rates of patient mortality after listing: 01/01/2019 - 03/12/2020





B. Waiting List Information

Table B7. Waiting list candidate status after listing
Candidates registered on waiting list between 07/01/2018 and 06/30/2019

Waiting list status (survival status)	This Center (N=268)			U.S. (N=41,372)		
	Months Since Listing			Months Since Listing		
	6	12	18	6	12	18
Alive on waiting list (%)	76.1	63.1	47.4	76.9	63.7	53.7
Died on the waiting list without transplant (%)	0.7	0.7	0.7	0.9	1.9	3.0
Removed without transplant (%):						
Condition worsened (status unknown)	0.7	2.2	2.6	0.6	1.4	2.4
Condition improved (status unknown)	0.4	0.4	0.4	0.1	0.1	0.2
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.1	0.2
Other	0.4	1.5	2.2	0.7	1.5	2.4
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	2.2	5.2	8.2	6.6	9.7	8.0
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.0	0.1	0.1
Status Yet Unknown**	0.0	0.0	0.7	0.1	0.6	3.9
Transplant (deceased donor) (%):						
Functioning (alive)	18.3	23.5	25.7	11.5	15.0	13.0
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.0	0.1
Died	0.0	0.0	0.4	0.3	0.5	0.8
Status Yet Unknown*	0.7	2.2	10.1	1.8	4.3	10.8
Lost or Transferred (status unknown) (%)	0.4	1.1	1.5	0.3	0.8	1.3
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.7	0.7	1.1	1.3	2.6	4.0
Total % known died or removed as unstable	1.5	3.0	3.7	1.9	4.0	6.4
Total % removed for transplant	21.3	31.0	45.1	20.4	30.3	36.8
Total % with known functioning transplant (alive)	20.5	28.7	34.0	18.1	24.6	21.1

* 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 01/01/2015 and 12/31/2017

Characteristic	Percent transplanted at time periods since listing									
	This Center					United States				
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	552	4.5	24.5	37.0	47.6	93,221	3.9	17.0	23.7	29.0
Ethnicity/Race*										
White	291	3.4	20.3	32.6	44.0	37,309	4.2	17.8	24.7	30.0
African-American	76	6.6	32.9	46.1	52.6	29,133	4.0	17.4	24.1	29.4
Hispanic/Latino	68	10.3	27.9	38.2	48.5	17,551	4.1	16.4	22.8	28.2
Asian	109	2.8	26.6	40.4	53.2	7,615	2.3	12.0	18.5	24.0
Other	8	0.0	37.5	50.0	50.0	1,613	5.3	21.0	27.8	33.0
Unknown	0	--	--	--	--	0	--	--	--	--
Age										
<2 years	0	--	--	--	--	135	4.4	36.3	53.3	71.1
2-11 years	0	--	--	--	--	823	8.5	49.0	62.9	71.3
12-17 years	0	--	--	--	--	1,380	8.3	51.2	63.5	68.9
18-34 years	70	1.4	18.6	40.0	57.1	9,438	3.8	18.3	26.6	33.5
35-49 years	134	5.2	26.1	35.1	50.0	23,500	3.7	16.3	23.3	29.1
50-64 years	215	5.6	24.2	34.0	43.3	39,832	4.0	15.8	21.9	26.8
65-69 years	85	3.5	24.7	41.2	48.2	12,332	3.8	15.5	21.5	26.3
70+ years	48	4.2	29.2	43.8	45.8	5,781	3.5	16.3	21.8	26.3
Gender										
Male	337	4.5	24.9	38.3	47.8	57,838	4.1	16.4	22.7	27.8
Female	215	4.7	23.7	34.9	47.4	35,383	3.8	18.0	25.4	31.1

* 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 01/01/2015 and 12/31/2017

Characteristic	N	Percent transplanted at time periods since listing					United States				
		This Center									
		30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years	
All	552	4.5	24.5	37.0	47.6	93,221	3.9	17.0	23.7	29.0	
Blood Type											
O	266	3.0	17.7	27.8	37.2	46,293	3.7	14.7	20.4	25.0	
A	191	6.3	35.6	47.1	59.7	29,320	4.8	20.4	28.3	34.7	
B	77	3.9	16.9	39.0	50.6	14,147	2.4	14.0	20.4	25.3	
AB	18	11.1	38.9	55.6	61.1	3,461	6.6	31.6	42.7	50.2	
Previous Transplant											
Yes	84	1.2	17.9	31.0	38.1	12,661	2.7	17.0	25.2	30.5	
No	468	5.1	25.6	38.0	49.4	80,560	4.2	17.0	23.5	28.8	
Peak PRA/CPRA											
0-9%	427	4.2	22.7	35.1	46.6	74,476	4.2	16.4	22.6	28.0	
10-79%	71	7.0	22.5	35.2	45.1	11,022	2.8	16.5	23.8	29.4	
80+%	54	3.7	40.7	53.7	59.3	7,613	2.8	24.0	34.0	39.0	
Unknown	0	--	--	--	--	6	100.0	100.0	100.0	100.0	
Primary Disease*											
Glomerular Diseases	115	0.9	20.0	33.0	41.7	17,136	3.2	17.7	26.0	32.6	
Tubular & Interstitial Diseases	32	0.0	15.6	34.4	40.6	3,551	4.9	20.4	28.0	33.7	
Polycystic Kidneys	54	3.7	27.8	42.6	53.7	6,288	2.4	16.0	23.9	30.8	
Congenital, Familial, Metabolic	9	0.0	22.2	44.4	44.4	1,845	5.5	30.8	40.2	47.3	
Diabetes	170	3.5	21.8	34.1	46.5	32,866	2.7	12.6	17.7	22.0	
Renovascular & Vascular Diseases	1	0.0	0.0	0.0	0.0	141	7.1	22.0	29.8	36.2	
Neoplasms	1	0.0	0.0	0.0	0.0	301	7.3	24.9	31.6	36.9	
Hypertensive Nephrosclerosis	71	7.0	29.6	40.8	52.1	19,877	3.9	17.0	24.0	29.6	
Other	95	11.6	33.7	43.2	55.8	10,863	9.3	26.4	33.5	38.0	
Missing*	4	0.0	0.0	0.0	0.0	353	1.7	11.3	16.7	22.1	

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



B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 01/01/2015 and 06/30/2020

Percentile	Center	Months to Transplant**		U.S.
		OPO/DSA	Region	
5th	0.8	1.2	1.2	0.9
10th	2.4	3.4	3	2.3
25th	8.7	11.0	9.5	9.3
50th (median time to transplant)	25.8	35.5	31.4	40
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 12/31/2020. 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: 01/01/2020 - 12/31/2020

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	5,176	15,714	26,559	1,980,795
Number of Acceptances	157	338	643	16,412
Expected Acceptances	123.4	407.3	738.4	16,389.1
Offer Acceptance Ratio*	1.27	0.83	0.87	1.00
95% Credible Interval**	[1.08, 1.47]	--	--	--
Low-KDRI Donors (KDRI < 1.05)				
Number of Offers	933	2,791	4,709	263,047
Number of Acceptances	69	162	293	5,457
Expected Acceptances	52.1	171.5	323.7	5,460.0
Offer Acceptance Ratio*	1.31	0.95	0.91	1.00
95% Credible Interval**	[1.02, 1.63]	--	--	--
Medium-KDRI Donors (1.05 < KDRI < 1.75)				
Number of Offers	3,732	10,671	19,024	1,265,648
Number of Acceptances	72	155	314	9,096
Expected Acceptances	64.8	199.1	366.5	9,074.4
Offer Acceptance Ratio*	1.11	0.78	0.86	1.00
95% Credible Interval**	[0.87, 1.37]	--	--	--
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	511	2,252	2,826	452,100
Number of Acceptances	16	21	36	1,859
Expected Acceptances	6.5	36.7	48.2	1,854.6
Offer Acceptance Ratio*	2.12	0.59	0.76	1.00
95% Credible Interval**	[1.26, 3.20]	--	--	--
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	2,767	8,218	14,858	1,681,708
Number of Acceptances	16	20	25	2,490
Expected Acceptances	7.2	19.7	32.0	2,486.4
Offer Acceptance Ratio*	1.96	1.01	0.79	1.00
95% Credible Interval**	[1.16, 2.96]	--	--	--

* The offer acceptance ratio estimates the relative offer acceptance practice of University of Washington Medical Center (WAUW) 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, [1.08, 1.47], indicates the location of WAUW's true offer acceptance ratio with 95% probability. The best estimate is 27% more likely to accept an offer compared to national acceptance behavior, but WAUW's performance could plausibly range from 8% higher acceptance up to 47% higher acceptance.



B. Waiting List Information

Figure B10. Offer acceptance: Overall

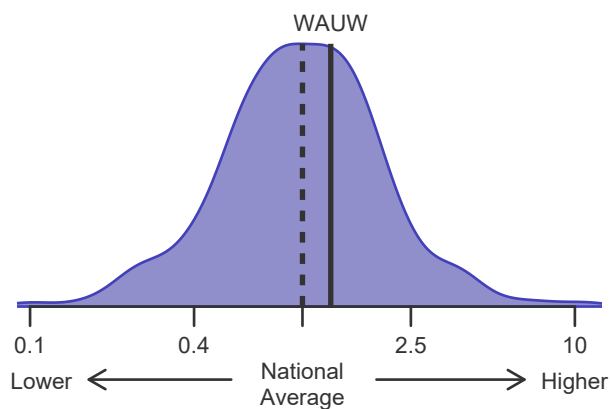


Figure B11. Offer acceptance: Low-KDRI

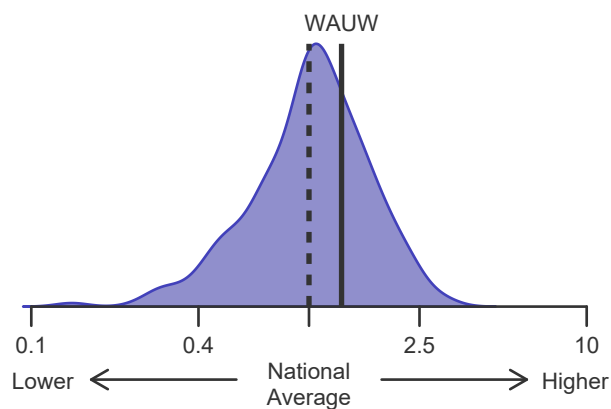


Figure B12. Offer acceptance: Medium-KDRI

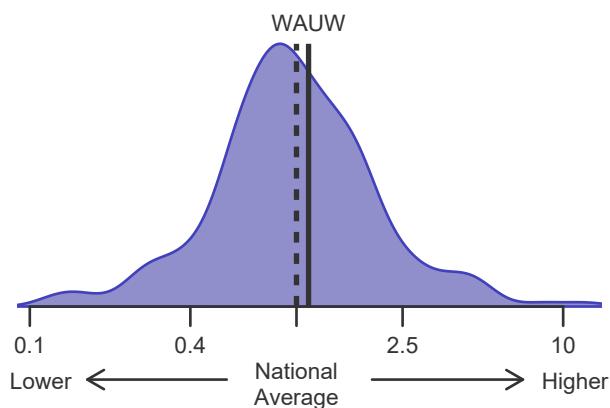


Figure B13. Offer acceptance: High-KDRI

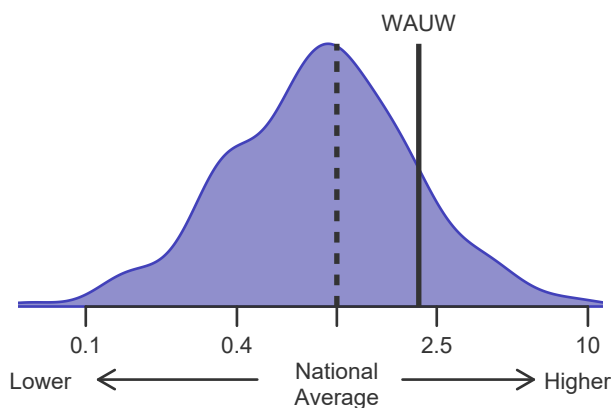
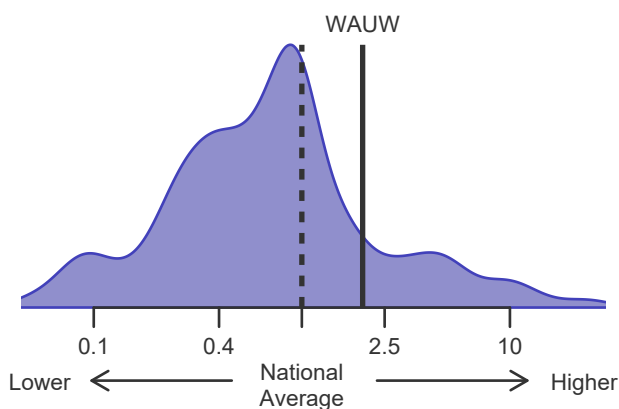


Figure B14. Offer acceptance: Offer number > 100





C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics**Patients transplanted between 01/01/2020 and 12/31/2020**

Characteristic	Percentage in each category		
	Center (N=171)	Region (N=664)	U.S. (N=17,581)
Ethnicity/Race (%)*			
White	45.0	48.5	39.0
African-American	8.8	11.3	32.1
Hispanic/Latino	15.2	15.1	19.1
Asian	30.4	22.3	7.9
Other	0.6	2.9	1.9
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	0.1
2-11 years	0.0	1.5	1.2
12-17	0.0	1.8	1.5
18-34	14.0	13.4	10.4
35-49 years	24.6	21.2	23.8
50-64 years	34.5	36.3	39.9
65-69 years	15.8	14.2	13.4
70+ years	11.1	11.6	9.6
Gender (%)			
Male	60.8	64.0	61.0
Female	39.2	36.0	39.0

* 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 C1L. Living donor transplant recipient demographic characteristics

Patients transplanted between 01/01/2020 and 12/31/2020

Characteristic	Percentage in each category		
	Center (N=23)	Region (N=127)	U.S. (N=5,234)
Ethnicity/Race (%)*			
White	65.2	70.9	64.3
African-American	0.0	5.5	11.4
Hispanic/Latino	13.0	9.4	16.2
Asian	17.4	11.0	6.7
Other	4.3	3.1	1.4
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	0.3
2-11 years	0.0	2.4	2.0
12-17	0.0	5.5	2.0
18-34	21.7	18.9	15.6
35-49 years	13.0	22.8	25.5
50-64 years	47.8	33.9	35.8
65-69 years	8.7	4.7	10.4
70+ years	8.7	11.8	8.5
Gender (%)			
Male	73.9	61.4	63.1
Female	26.1	38.6	36.9

* 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 01/01/2020 and 12/31/2020**

Characteristic	Percentage in each category		
	Center (N=171)	Region (N=664)	U.S. (N=17,581)
Blood Type (%)			
O	42.7	46.5	46.2
A	34.5	33.7	34.8
B	21.6	17.0	14.1
AB	1.2	2.7	5.0
Previous Transplant (%)			
Yes	11.7	11.6	12.5
No	88.3	88.4	87.5
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	74.3	63.6	62.1
10-79%	17.0	23.2	22.9
80+ %	8.8	13.3	15.0
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	7.6	7.7	8.9
21-25	32.7	31.9	26.9
26-30	31.6	32.7	30.8
31-35	22.8	18.7	21.3
36-40	5.3	6.0	8.6
41+	0.0	0.5	1.5
Unknown	0.0	2.6	2.2
Primary Disease (%)*			
Glomerular Diseases	22.2	28.9	21.5
Tubular and Interstitial Disease	7.0	5.3	4.0
Polycystic Kidneys	7.6	7.5	7.3
Congenital, Familial, Metabolic	0.0	2.9	2.6
Diabetes	27.5	28.9	29.7
Renovascular & Vascular Diseases	0.0	0.0	0.2
Neoplasms	1.2	0.3	0.4
Hypertensive Nephrosclerosis	18.1	15.1	22.7
Other Kidney	15.8	10.5	11.4
Missing*	0.6	0.6	0.3

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



C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics

Patients transplanted between 01/01/2020 and 12/31/2020

Characteristic	Percentage in each category		
	Center (N=23)	Region (N=127)	U.S. (N=5,234)
Blood Type (%)			
O	30.4	38.6	43.5
A	56.5	44.1	39.5
B	8.7	11.0	13.6
AB	4.3	6.3	3.3
Previous Transplant (%)			
Yes	17.4	11.0	10.8
No	82.6	89.0	89.2
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	78.3	84.3	75.2
10-79%	17.4	13.4	19.4
80+ %	4.3	2.4	5.3
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	17.4	18.9	12.2
21-25	21.7	23.6	28.5
26-30	39.1	29.9	31.2
31-35	21.7	18.1	19.1
36-40	0.0	7.9	6.8
41+	0.0	0.0	1.1
Unknown	0.0	1.6	1.1
Primary Disease (%)*			
Glomerular Diseases	30.4	30.7	28.7
Tubular and Interstitial Disease	0.0	7.9	5.9
Polycystic Kidneys	21.7	18.1	12.5
Congenital, Familial, Metabolic	4.3	6.3	3.8
Diabetes	26.1	15.0	23.8
Renovascular & Vascular Diseases	0.0	0.8	0.6
Neoplasms	0.0	0.0	0.4
Hypertensive Nephrosclerosis	4.3	9.4	15.3
Other Kidney	13.0	11.8	8.6
Missing*	0.0	0.0	0.3

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



C. Transplant Information

Table C3D. Deceased donor characteristics**Transplants performed between 01/01/2020 and 12/31/2020**

Donor Characteristic	Percentage in each category		
	Center (N=171)	Region (N=664)	U.S. (N=17,581)
Cause of Death (%)			
Deceased: Stroke	19.3	22.0	21.5
Deceased: MVA	13.5	15.1	13.4
Deceased: Other	67.3	63.0	65.1
Ethnicity/Race (%)*			
White	72.5	73.3	66.5
African-American	7.0	5.4	14.1
Hispanic/Latino	9.4	9.8	15.3
Asian	8.2	8.6	2.9
Other	2.9	2.9	1.2
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.2	0.8
2-11 years	0.6	1.5	2.2
12-17	7.6	4.7	3.7
18-34	30.4	36.7	33.6
35-49 years	39.8	35.8	32.6
50-64 years	19.3	19.4	24.6
65-69 years	1.8	1.2	2.0
70+ years	0.6	0.5	0.4
Gender (%)			
Male	66.7	63.0	63.3
Female	33.3	37.0	36.7
Blood Type (%)			
O	43.9	46.8	47.9
A	40.9	37.5	36.9
B	15.2	14.3	11.6
AB	0.0	1.4	3.6
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 01/01/2020 and 12/31/2020**

Donor Characteristic	Percentage in each category		
	Center (N=23)	Region (N=127)	U.S. (N=5,234)
Ethnicity/Race (%)*			
White	82.6	78.7	71.4
African-American	0.0	3.1	7.3
Hispanic/Latino	13.0	7.1	14.8
Asian	0.0	6.3	4.8
Other	4.3	4.7	1.8
Not Reported	0.0	0.0	0.0
Age (%)			
0-11 years	0.0	0.0	0.0
12-17	0.0	0.0	0.0
18-34	13.0	16.5	26.5
35-49 years	30.4	40.9	36.8
50-64 years	52.2	34.6	30.9
65-69 years	0.0	6.3	4.3
70+ years	4.3	1.6	1.4
Gender (%)			
Male	39.1	33.1	34.8
Female	60.9	66.9	65.2
Blood Type (%)			
O	56.5	55.1	62.8
A	34.8	34.6	27.9
B	4.3	8.7	8.2
AB	4.3	1.6	1.1
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C4D. Deceased donor transplant characteristics
Transplants performed between 01/01/2020 and 12/31/2020

Transplant Characteristic	Center (N=171)	Percentage in each category Region (N=664)	U.S. (N=17,581)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-11 hr	18.9	34.1	33.4
Deceased: 12-21 hr	38.4	40.2	48.4
Deceased: 22-31 hr	37.7	21.7	14.7
Deceased: 32-41 hr	5.0	2.1	1.7
Deceased: 42+ hr	0.0	0.2	0.4
Not Reported	0.0	1.7	1.4
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-11 hr	50.0	18.0	10.3
Deceased: 12-21 hr	16.7	38.2	35.0
Deceased: 22-31 hr	16.7	36.0	37.6
Deceased: 32-41 hr	16.7	6.7	13.1
Deceased: 42+ hr	0.0	1.1	2.7
Not Reported	0.0	0.0	1.3
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	9.9	8.1	11.4
1	39.8	44.1	39.0
2	50.3	47.7	49.3
Not Reported	0.0	0.0	0.2
B Locus Mismatches (%)			
0	4.1	4.8	6.7
1	28.7	25.8	24.9
2	67.3	69.4	68.1
Not Reported	0.0	0.0	0.2
DR Locus Mismatches (%)			
0	11.1	12.8	15.7
1	55.0	50.6	47.3
2	33.9	36.6	36.8
Not Reported	0.0	0.0	0.2
Total Mismatches (%)			
0	1.8	2.0	4.3
1	1.2	0.8	1.2
2	3.5	5.3	4.5
3	19.3	15.1	14.0
4	29.2	29.5	27.1
5	26.9	31.2	33.0
6	18.1	16.3	15.7
Not Reported	0.0	0.0	0.2
Procedure Type (%)			
Single organ	93.6	97.3	93.8
Multi organ	6.4	2.7	6.2
Dialysis in First Week After Transplant (%)			
Yes	32.2	19.4	28.5
No	67.8	79.5	71.2
Not Reported	0.0	1.1	0.3
Donor Location (%)			
Local Donation Service Area (DSA)	93.0	86.6	70.4
Another Donation Service Area (DSA)	7.0	13.4	29.6
Median Time in Hospital After Transplant*	5.0 Days	4.0 Days	5.0 Days

* Multi organ transplants are excluded from this statistic.



C. Transplant Information

Table C4L. Living donor transplant characteristics
Transplants performed between 01/01/2020 and 12/31/2020

Transplant Characteristic	Percentage in each category		
	Center (N=23)	Region (N=127)	U.S. (N=5,234)
Relation with Donor (%)			
Related	47.8	31.5	39.1
Unrelated	52.2	68.5	60.7
Not Reported	0.0	0.0	0.2
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	21.7	17.3	16.2
1	47.8	54.3	48.1
2	30.4	28.3	31.0
Not Reported	0.0	0.0	4.7
B Locus Mismatches (%)			
0	13.0	10.2	9.8
1	39.1	38.6	40.3
2	47.8	51.2	45.2
Not Reported	0.0	0.0	4.7
DR Locus Mismatches (%)			
0	21.7	18.9	15.7
1	39.1	48.0	46.2
2	39.1	33.1	33.3
Not Reported	0.0	0.0	4.7
Total Mismatches (%)			
0	13.0	4.7	4.5
1	0.0	7.1	4.1
2	8.7	10.2	11.7
3	17.4	16.5	21.2
4	30.4	26.0	18.7
5	13.0	27.6	22.8
6	17.4	7.9	12.3
Not Reported	0.0	0.0	4.7
Procedure Type (%)			
Single organ	100.0	100.0	100.0
Multi organ	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	0.0	3.1	2.9
No	100.0	96.1	96.9
Not Reported	0.0	0.8	0.2
Median Time in Hospital After Transplant*	4.0 Days	4.0 Days	4.0 Days

* Multi organ transplants are excluded from this statistic.



C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	383	45,553
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	99.48%	98.68%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.73%	--
Number of observed graft failures (including deaths) during the first month after transplant	2	596
Number of expected graft failures (including deaths) during the first month after transplant	4.81	--
Estimated hazard ratio*	0.59	--
95% credible interval for the hazard ratio**	[0.16, 1.29]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.16, 1.29], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 41% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 84% reduced risk up to 29% increased risk.

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

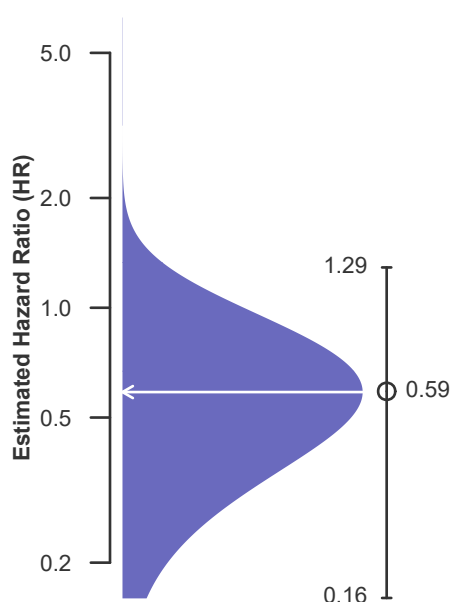
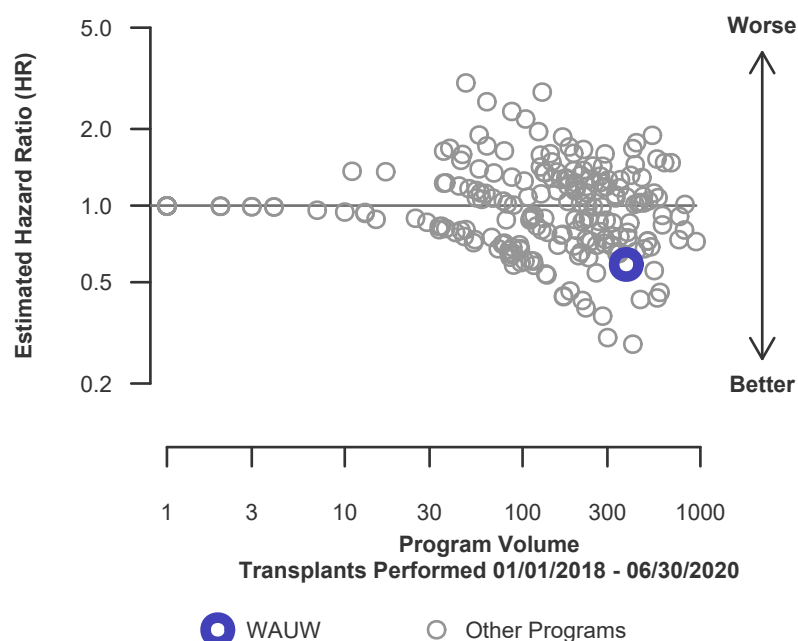


Figure C2. Adult (18+) 1-month graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2018 and 03/12/2020

Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	305	31,532
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	99.34%	98.45%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.61%	--
Number of observed graft failures (including deaths) during the first month after transplant	2	483
Number of expected graft failures (including deaths) during the first month after transplant	4.20	--
Estimated hazard ratio*	0.64	--
95% credible interval for the hazard ratio**	[0.18, 1.41]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.18, 1.41], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 36% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 82% reduced risk up to 41% increased risk.

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

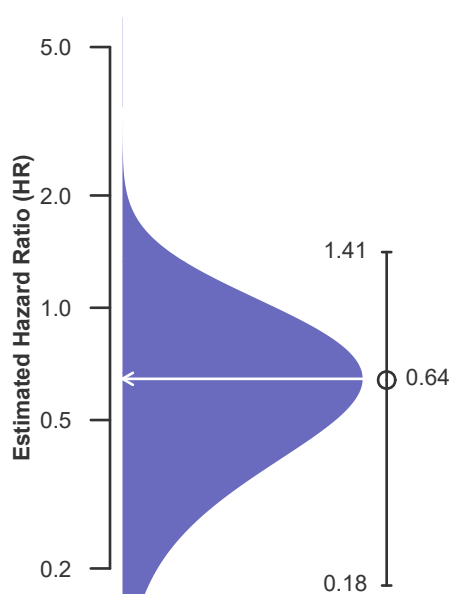
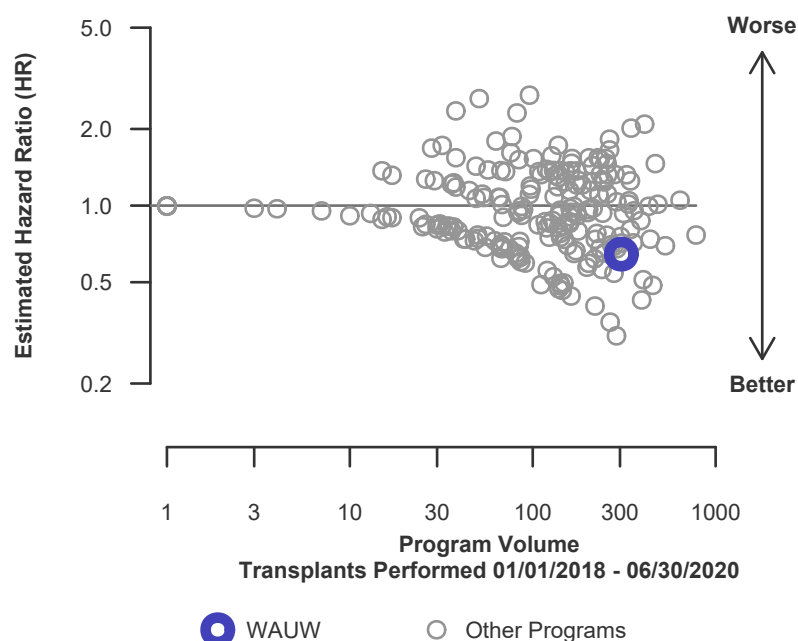


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 01/01/2018 and 03/12/2020

Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	78	14,021
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.18%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.22%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	113
Number of expected graft failures (including deaths) during the first month after transplant	0.61	--
Estimated hazard ratio*	0.77	--
95% credible interval for the hazard ratio**	[0.09, 2.14]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.09, 2.14], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 23% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 91% reduced risk up to 114% increased risk.

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

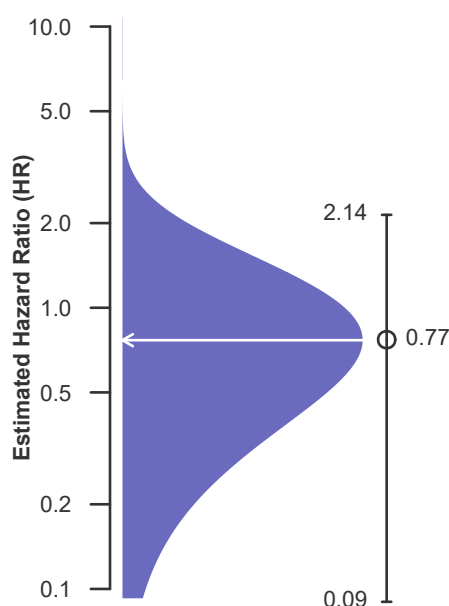
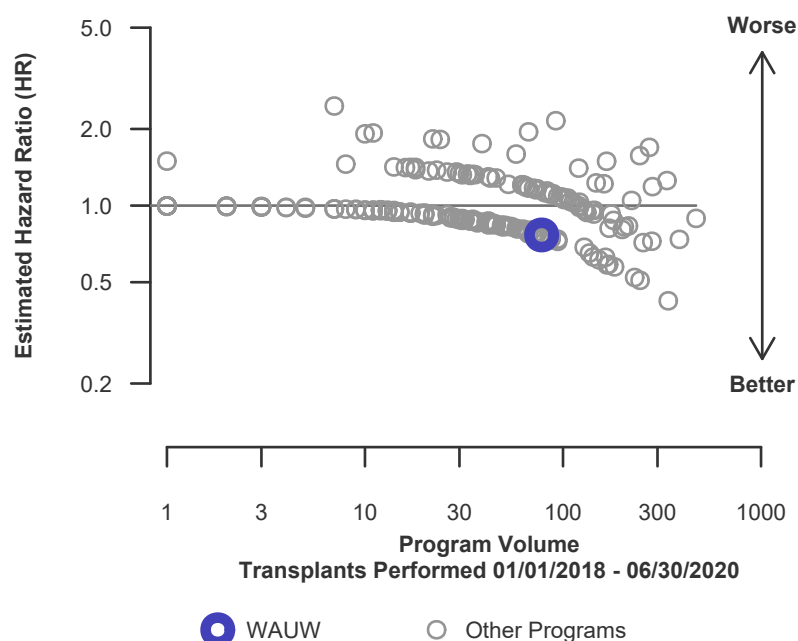


Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison





C. Transplant Information

Table C6. Adult (18+) 1-year survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	383	45,553
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	97.59%	95.68%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.74%	--
Number of observed graft failures (including deaths) during the first year after transplant	7	1,651
Number of expected graft failures (including deaths) during the first year after transplant	14.32	--
Estimated hazard ratio*	0.55	--
95% credible interval for the hazard ratio**	[0.25, 0.97]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.25, 0.97], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 45% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 75% reduced risk up to 3% reduced risk.

Figure C3. Adult (18+) 1-year graft failure HR estimate

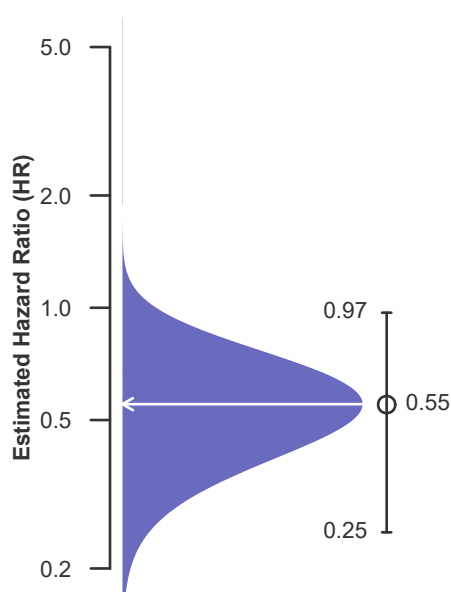
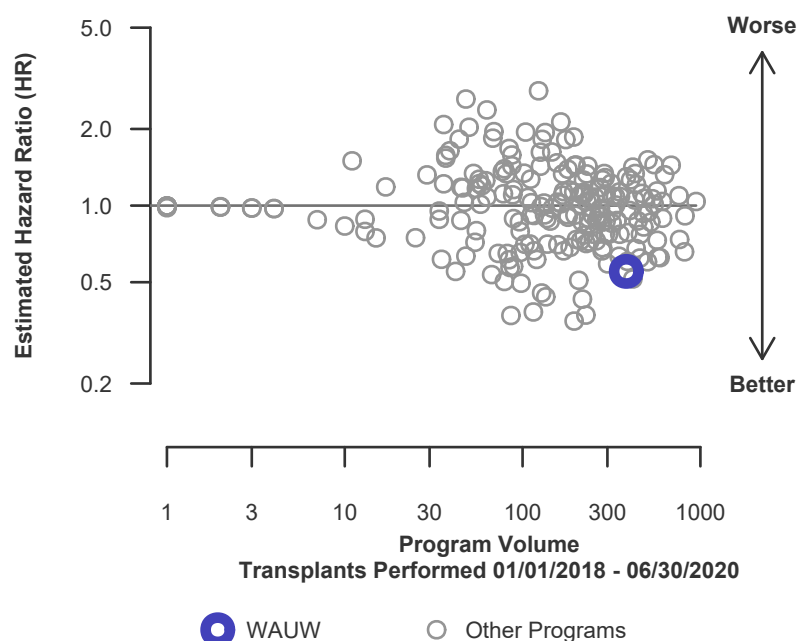


Figure C4. Adult (18+) 1-year graft failure HR program comparison





C. Transplant Information

Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	305	31,532
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	96.98%	94.58%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.11%	--
Number of observed graft failures (including deaths) during the first year after transplant	7	1,418
Number of expected graft failures (including deaths) during the first year after transplant	13.06	--
Estimated hazard ratio*	0.60	--
95% credible interval for the hazard ratio**	[0.27, 1.05]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.27, 1.05], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 40% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 73% reduced risk up to 5% increased risk.

Figure C3D. Adult (18+) 1-year deceased donor graft failure HR estimate

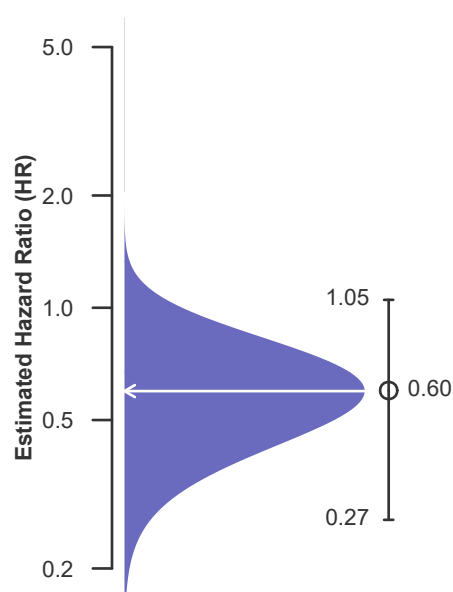
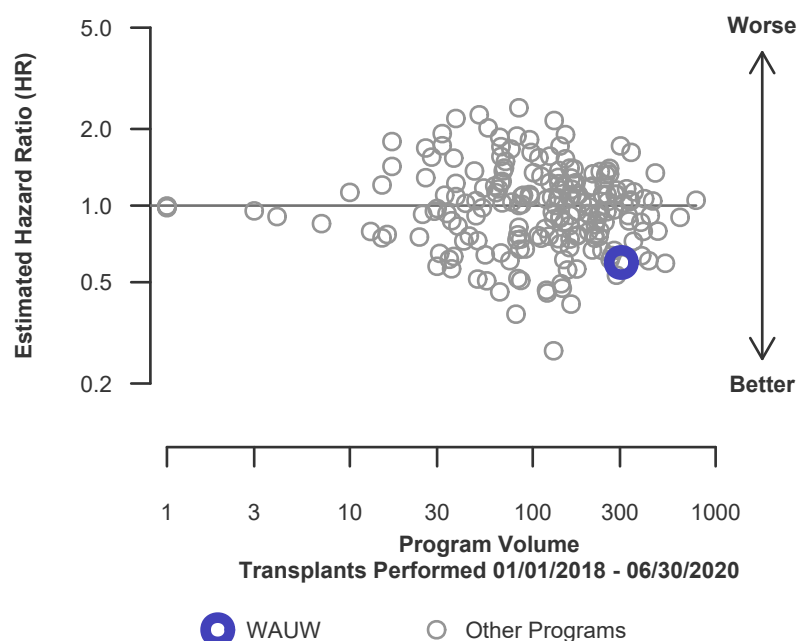


Figure C4D. Adult (18+) 1-year deceased donor graft failure HR program comparison





C. Transplant Information

Table C6L. Adult (18+) 1-year survival with a functioning living donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	78	14,021
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.09%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.18%	--
Number of observed graft failures (including deaths) during the first year after transplant	0	233
Number of expected graft failures (including deaths) during the first year after transplant	1.26	--
Estimated hazard ratio*	0.61	--
95% credible interval for the hazard ratio**	[0.07, 1.71]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.07, 1.71], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 39% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 93% reduced risk up to 71% increased risk.

Figure C3L. Adult (18+) 1-year living donor graft failure HR estimate

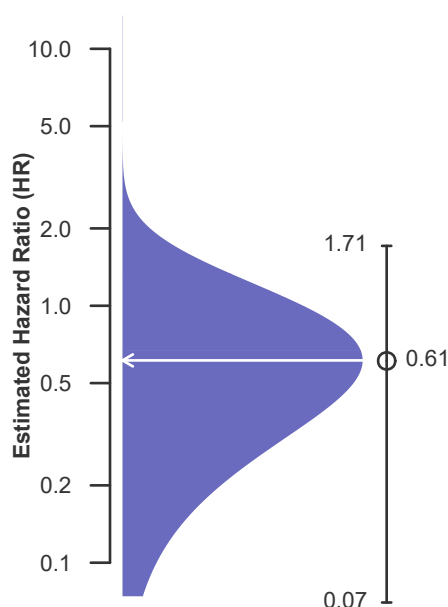
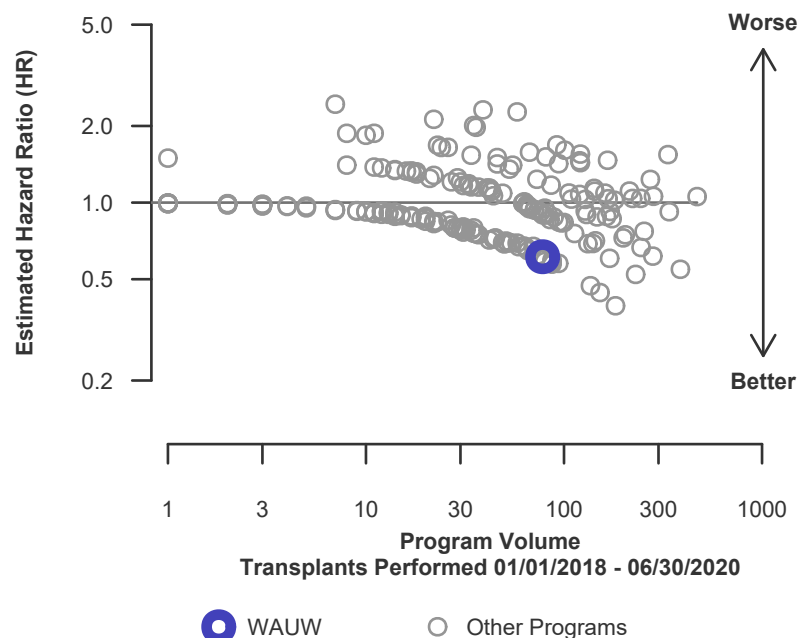


Figure C4L. Adult (18+) 1-year living donor graft failure HR program comparison





C. Transplant Information

Table C7. Adult (18+) 3-year survival with a functioning graft

Single organ transplants performed between 07/01/2015 and 12/31/2017

Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	324	43,863
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	95.43%	90.02%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.29%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	14	4,203
Number of expected graft failures (including deaths) during the first 3 years after transplant	27.96	--
Estimated hazard ratio*	0.53	--
95% credible interval for the hazard ratio**	[0.31, 0.83]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.31, 0.83], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 47% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 69% reduced risk up to 17% reduced risk.

Figure C5. Adult (18+) 3-year graft failure HR estimate

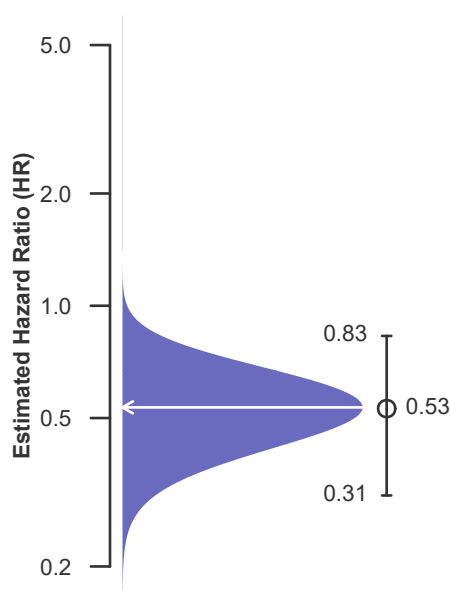
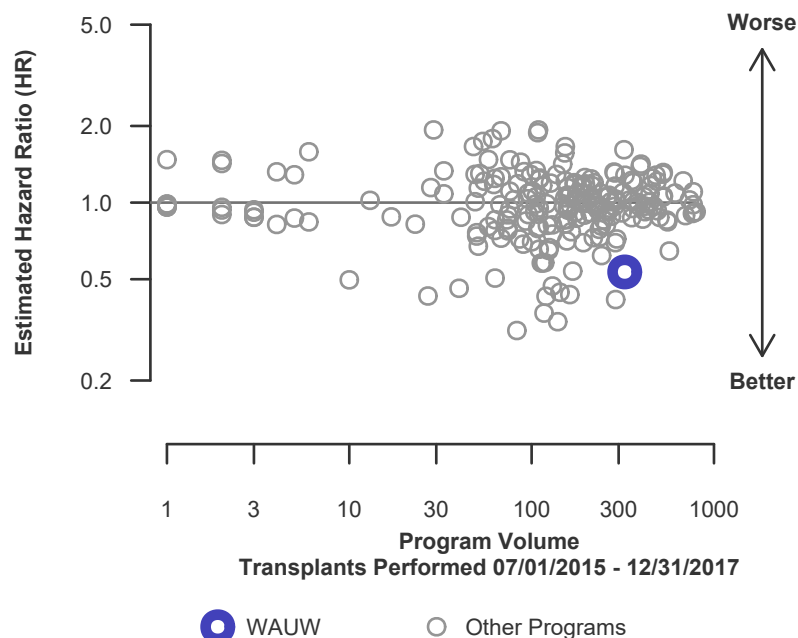


Figure C6. Adult (18+) 3-year graft failure HR program comparison





C. Transplant Information

Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	252	30,147
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	94.53%	88.09%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.42%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	13	3,457
Number of expected graft failures (including deaths) during the first 3 years after transplant	24.03	--
Estimated hazard ratio*	0.58	--
95% credible interval for the hazard ratio**	[0.32, 0.90]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.32, 0.90], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 42% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 68% reduced risk up to 10% reduced risk.

Figure C5D. Adult (18+) 3-year deceased donor graft failure HR estimate

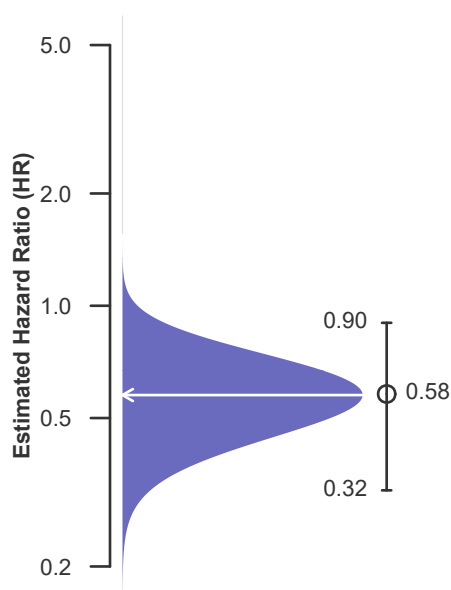
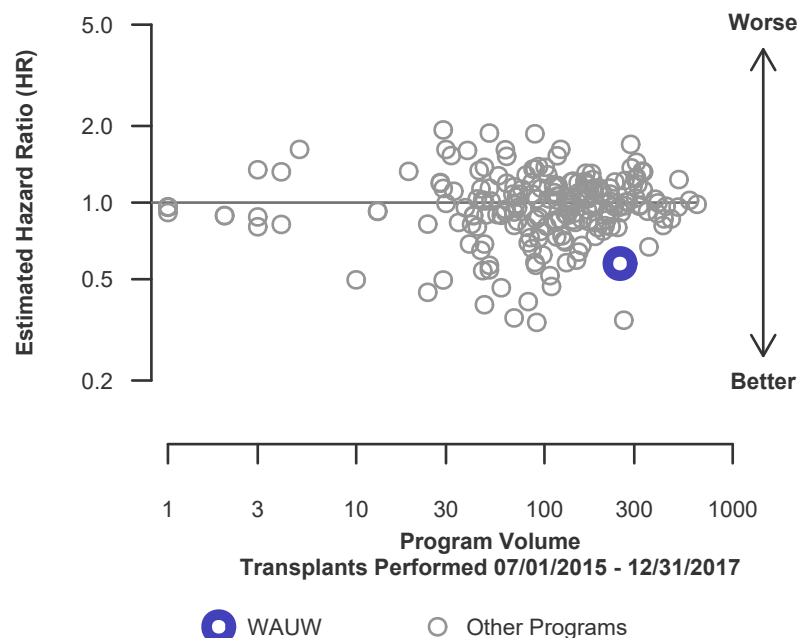


Figure C6D. Adult (18+) 3-year deceased donor graft failure HR program comparison





C. Transplant Information

Table C7L. Adult (18+) 3-year survival with a functioning living donor graft

Single organ transplants performed between 07/01/2015 and 12/31/2017

Deaths and retransplants are considered graft failures

	WAUW	U.S.
Number of transplants evaluated	72	13,716
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	98.61%	94.27%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	94.32%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	746
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.93	--
Estimated hazard ratio*	0.51	--
95% credible interval for the hazard ratio**	[0.10, 1.22]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.10, 1.22], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 49% lower risk of graft failure compared to an average program, but WAUW's performance could plausibly range from 90% reduced risk up to 22% increased risk.

Figure C5L. Adult (18+) 3-year living donor graft failure HR estimate

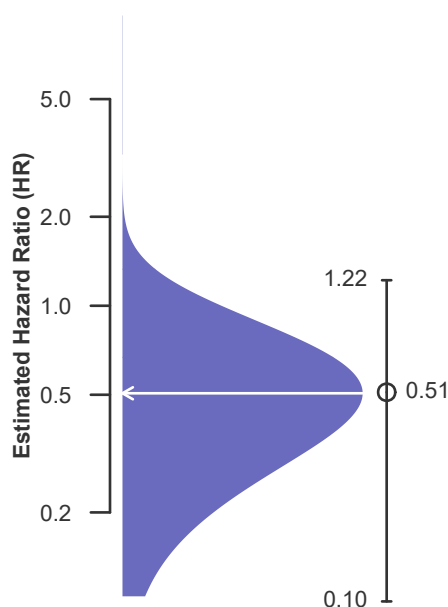
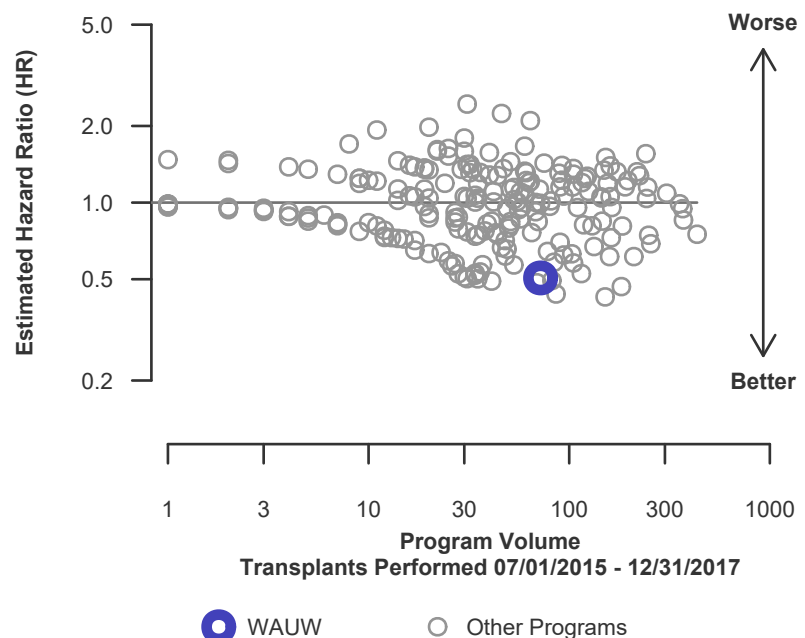


Figure C6L. Adult (18+) 3-year living donor graft failure HR program comparison





C. Transplant Information

Table C8. Pediatric (<18) 1-month survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C7. Pediatric (<18)
1-month graft failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C8. Pediatric (<18) 1-month graft failure HR program
comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C7D. Pediatric (<18)
1-month deceased donor graft
failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C8D. Pediatric (<18) 1-month deceased donor graft
failure HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C8L. Pediatric (<18) 1-month survival with a functioning living donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C7L. Pediatric (<18)
1-month living donor graft failure
HR estimate

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C8L. Pediatric (<18) 1-month living donor graft failure
HR program comparison

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C9. Pediatric (<18) 1-year survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C9. Pediatric (<18) 1-year
graft failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C10. Pediatric (<18) 1-year graft failure HR program
comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C9D. Pediatric (<18)
1-year deceased donor graft
failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C10D. Pediatric (<18) 1-year deceased donor graft
failure HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C9L. Pediatric (<18) 1-year survival with a functioning living donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C9L. Pediatric (<18) 1-year
living donor graft failure HR
estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C10L. Pediatric (<18) 1-year living donor graft failure
HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C10. Pediatric (<18) 3-year survival with a functioning graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

**Figure C11. Pediatric (<18) 3-year
graft failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

**Figure C12. Pediatric (<18) 3-year graft failure HR program
comparison**

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

**Figure C11D. Pediatric (<18)
3-year deceased donor graft
failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

**Figure C12D. Pediatric (<18) 3-year deceased donor graft
failure HR program comparison**

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C10L. Pediatric (<18) 3-year survival with a functioning living donor graft

Single organ transplants performed between 07/01/2015 and 12/31/2017

Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

Figure C11L. Pediatric (<18) 3-year living donor graft failure HR estimate

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

Figure C12L. Pediatric (<18) 3-year living donor graft failure HR program comparison

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C11. Adult (18+) 1-month patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	344	40,563
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.59%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.57%	--
Number of observed deaths during the first month after transplant	0	165
Number of expected deaths during the first month after transplant	1.47	--
Estimated hazard ratio*	0.58	--
95% credible interval for the hazard ratio**	[0.07, 1.61]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.07, 1.61], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 42% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 93% reduced risk up to 61% increased risk.

Figure C13. Adult (18+) 1-month patient death HR estimate

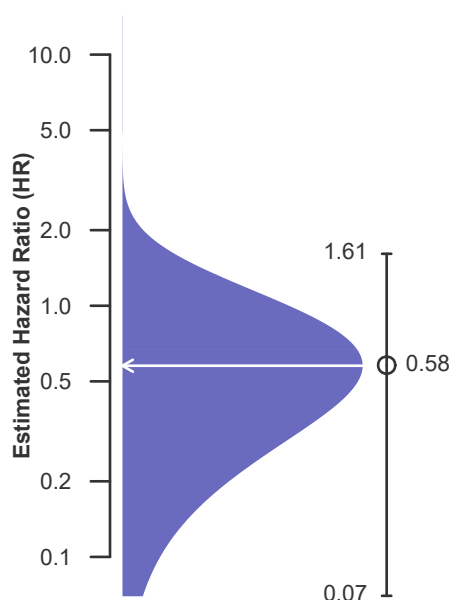
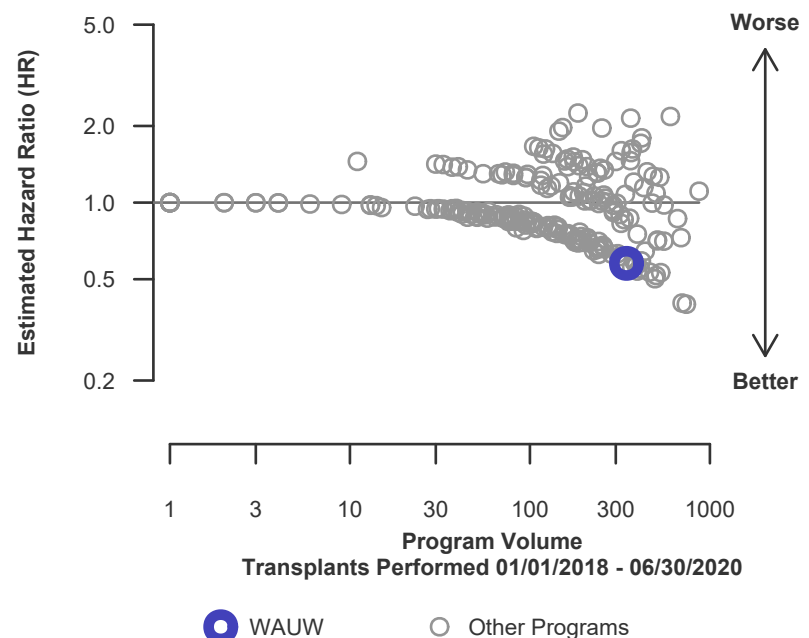


Figure C14. Adult (18+) 1-month patient death HR program comparison





C. Transplant Information

Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	273	27,861
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.49%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.50%	--
Number of observed deaths during the first month after transplant	0	140
Number of expected deaths during the first month after transplant	1.34	--
Estimated hazard ratio*	0.60	--
95% credible interval for the hazard ratio**	[0.07, 1.67]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.07, 1.67], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 40% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 93% reduced risk up to 67% increased risk.

Figure C13D. Adult (18+) 1-month patient death HR estimate (deceased donor grafts)

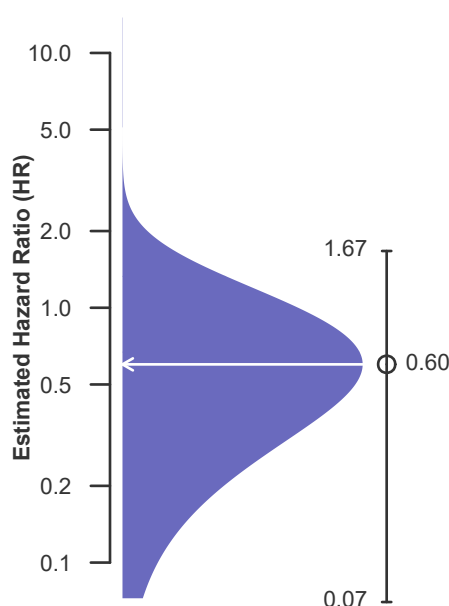
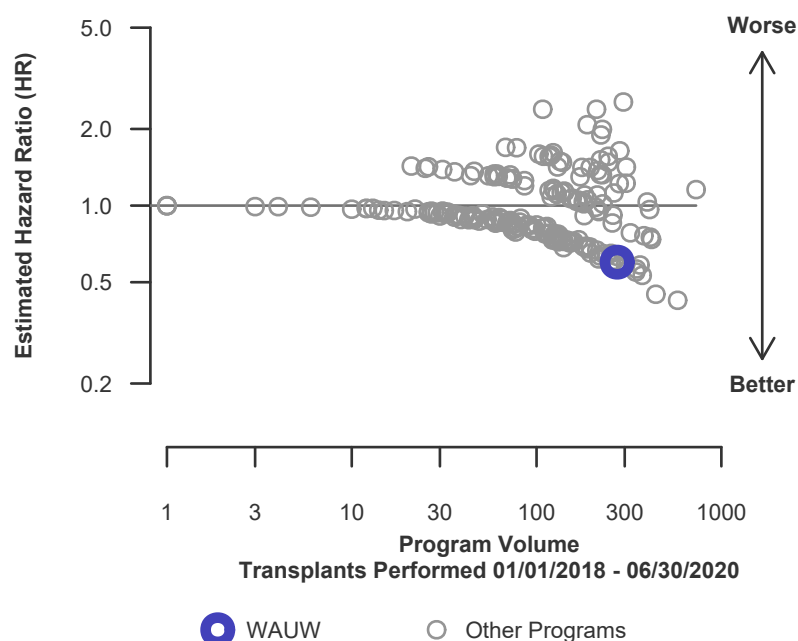


Figure C14D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C11L. Adult (18+) 1-month patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	71	12,702
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.80%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.82%	--
Number of observed deaths during the first month after transplant	0	25
Number of expected deaths during the first month after transplant	0.13	--
Estimated hazard ratio*	0.94	--
95% credible interval for the hazard ratio**	[0.11, 2.62]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

Figure C13L. Adult (18+) 1-month patient death HR estimate (living donor grafts)

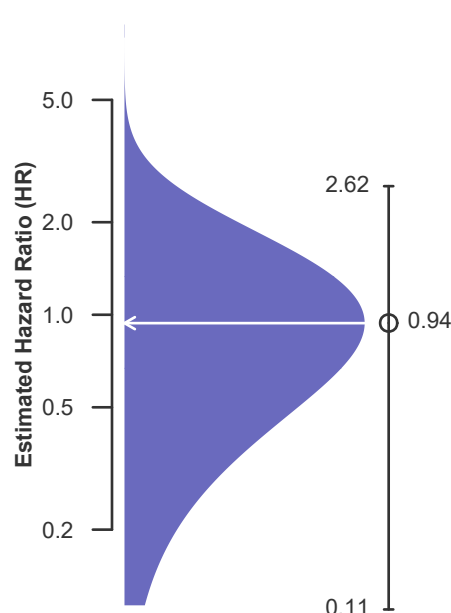
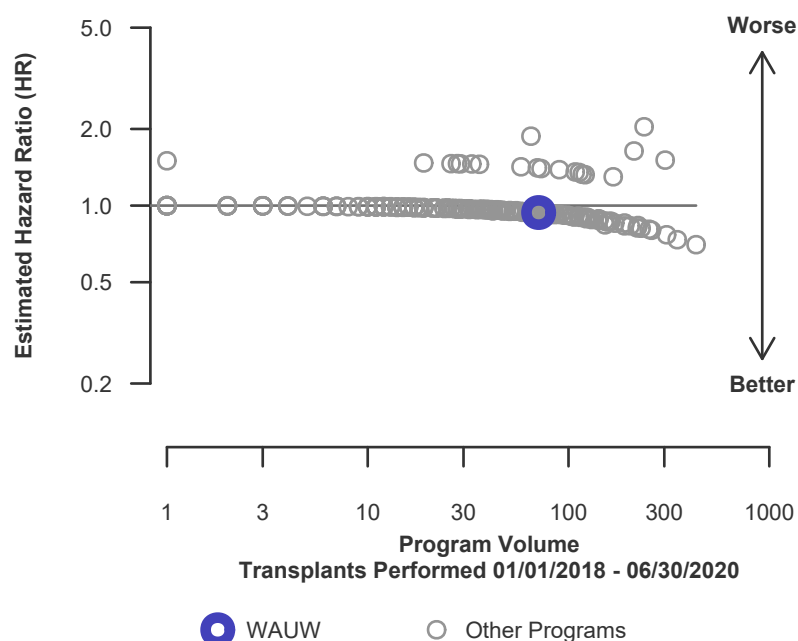


Figure C14L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





C. Transplant Information

Table C12. Adult (18+) 1-year patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	344	40,563
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.89%	97.62%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.47%	--
Number of observed deaths during the first year after transplant	3	769
Number of expected deaths during the first year after transplant	7.25	--
Estimated hazard ratio*	0.54	--
95% credible interval for the hazard ratio**	[0.18, 1.11]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.18, 1.11], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 46% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 82% reduced risk up to 11% increased risk.

Figure C15. Adult (18+) 1-year patient death HR estimate

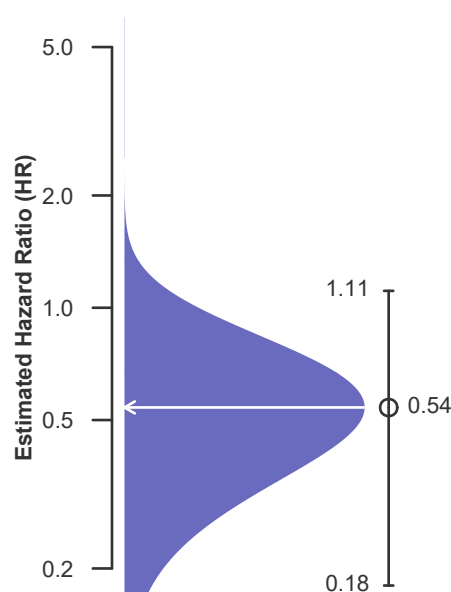
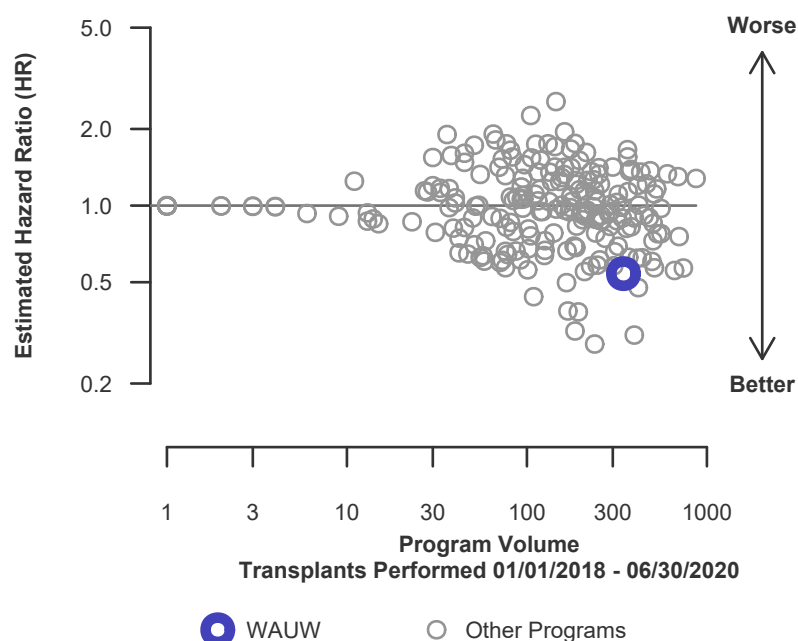


Figure C16. Adult (18+) 1-year patient death HR program comparison





C. Transplant Information

Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	273	27,861
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.61%	96.93%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.03%	--
Number of observed deaths during the first year after transplant	3	675
Number of expected deaths during the first year after transplant	6.77	--
Estimated hazard ratio*	0.57	--
95% credible interval for the hazard ratio**	[0.19, 1.17]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.19, 1.17], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 43% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 81% reduced risk up to 17% increased risk.

Figure C15D. Adult (18+) 1-year patient death HR estimate (deceased donor grafts)

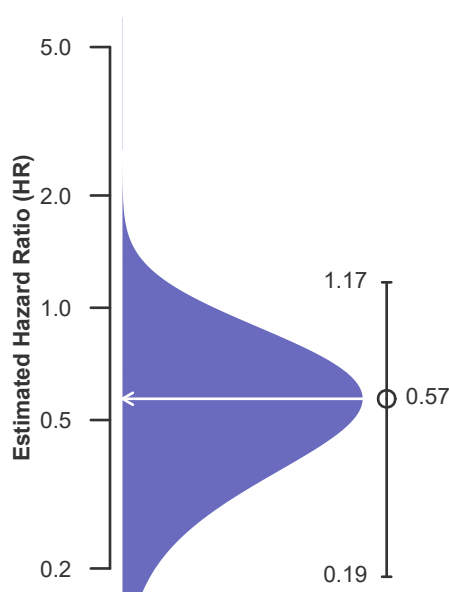
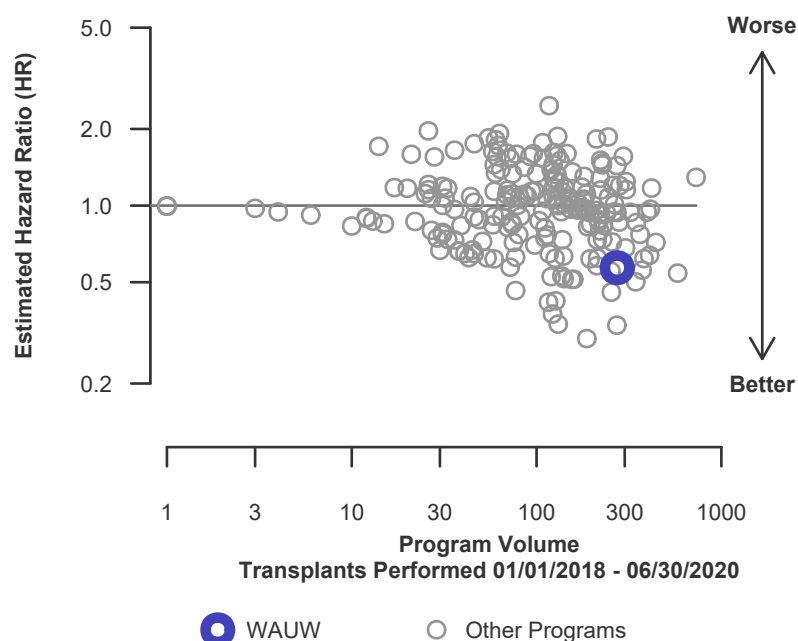


Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C12L. Adult (18+) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	71	12,702
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.09%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.17%	--
Number of observed deaths during the first year after transplant	0	94
Number of expected deaths during the first year after transplant	0.48	--
Estimated hazard ratio*	0.81	--
95% credible interval for the hazard ratio**	[0.10, 2.24]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.10, 2.24], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 19% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 90% reduced risk up to 124% increased risk.

Figure C15L. Adult (18+) 1-year patient death HR estimate (living donor grafts)

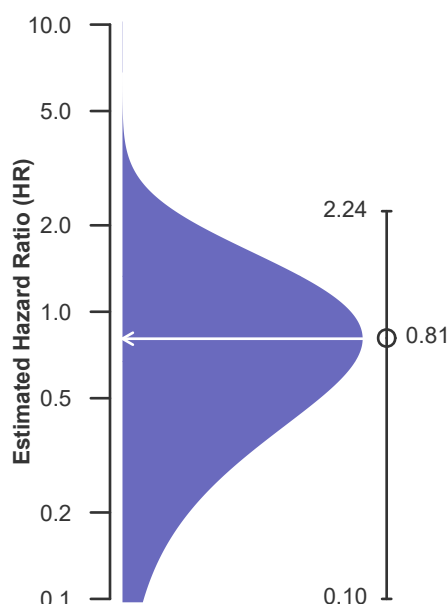
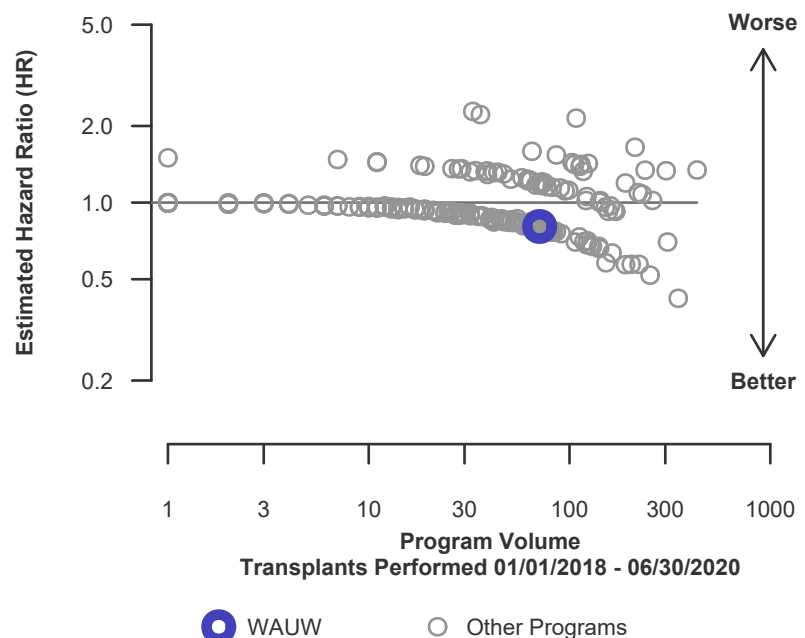


Figure C16L. Adult (18+) 1-year patient death HR program comparison (living donor grafts)





C. Transplant Information

Table C13. Adult (18+) 3-year patient survival

Single organ transplants performed between 07/01/2015 and 12/31/2017
Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	292	38,241
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	97.00%	94.20%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.78%	--
Number of observed deaths during the first 3 years after transplant	8	2,123
Number of expected deaths during the first 3 years after transplant	15.06	--
Estimated hazard ratio*	0.59	--
95% credible interval for the hazard ratio**	[0.28, 1.00]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.28, 1.00], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 41% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 72% reduced risk up to 0% increased risk.

Figure C17. Adult (18+) 3-year patient death HR estimate

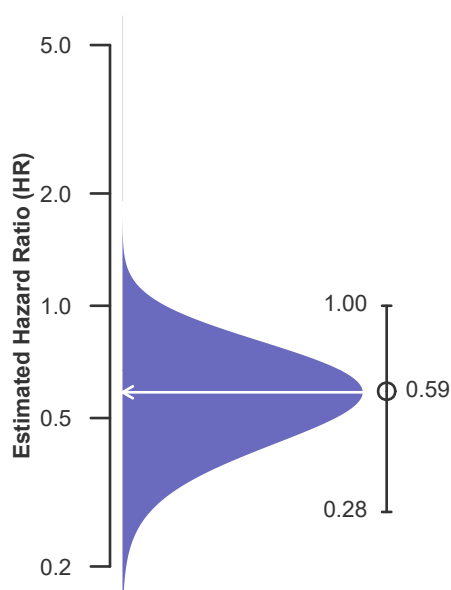
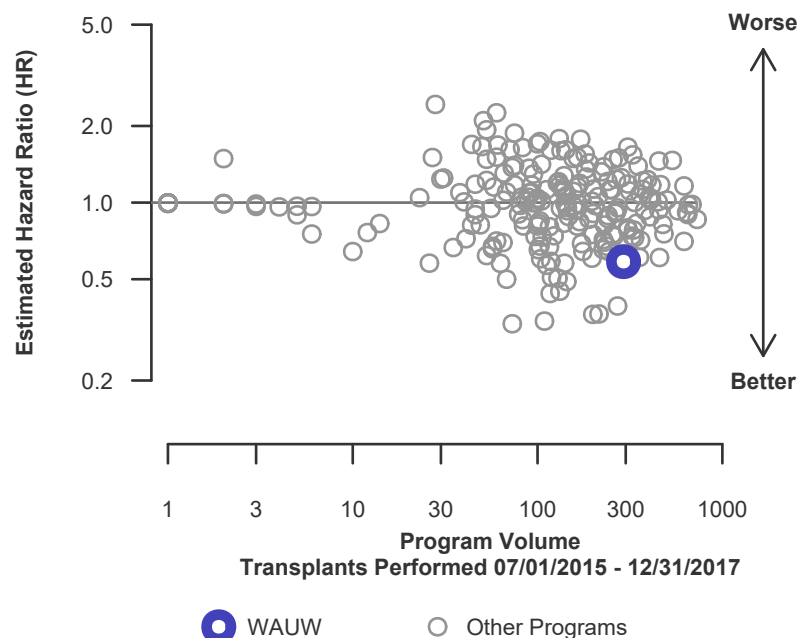


Figure C18. Adult (18+) 3-year patient death HR program comparison





C. Transplant Information

Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	228	25,865
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	96.15%	92.89%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.10%	--
Number of observed deaths during the first 3 years after transplant	8	1,766
Number of expected deaths during the first 3 years after transplant	13.33	--
Estimated hazard ratio*	0.65	--
95% credible interval for the hazard ratio**	[0.31, 1.11]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.31, 1.11], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 35% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 69% reduced risk up to 11% increased risk.

Figure C17D. Adult (18+) 3-year patient death HR estimate (deceased donor grafts)

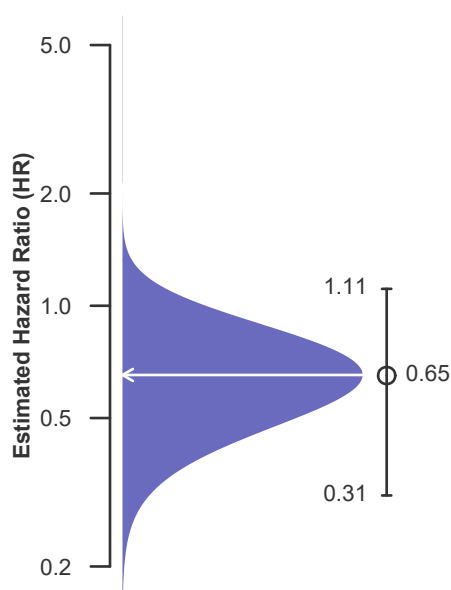
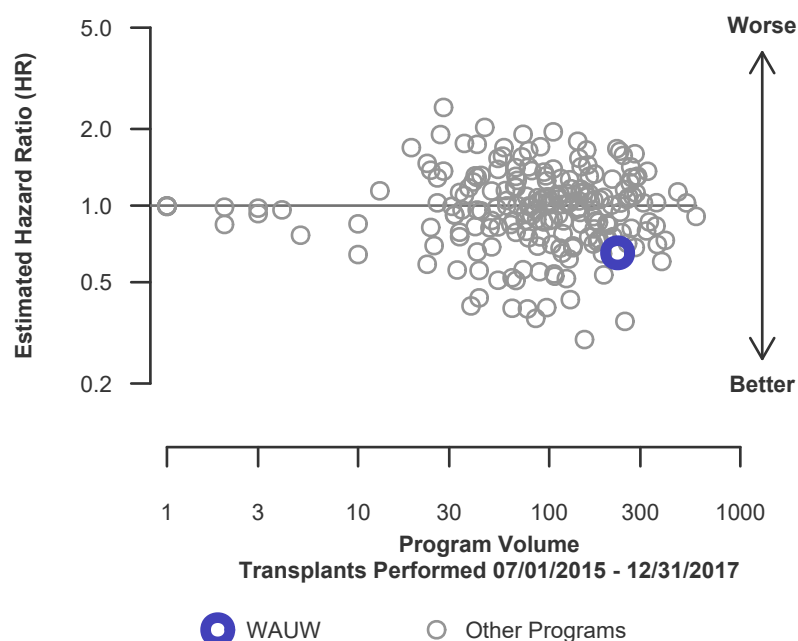


Figure C18D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C13L. Adult (18+) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

	WAUW	U.S.
Number of transplants evaluated	64	12,376
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	96.95%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	97.19%	--
Number of observed deaths during the first 3 years after transplant	0	357
Number of expected deaths during the first 3 years after transplant	1.73	--
Estimated hazard ratio*	0.54	--
95% credible interval for the hazard ratio**	[0.06, 1.49]	--

* The hazard ratio provides an estimate of how University of Washington Medical Center (WAUW)'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 WAUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.06, 1.49], indicates the location of WAUW's true hazard ratio with 95% probability. The best estimate is 46% lower risk of patient death compared to an average program, but WAUW's performance could plausibly range from 94% reduced risk up to 49% increased risk.

Figure C17L. Adult (18+) 3-year patient death HR estimate (living donor grafts)

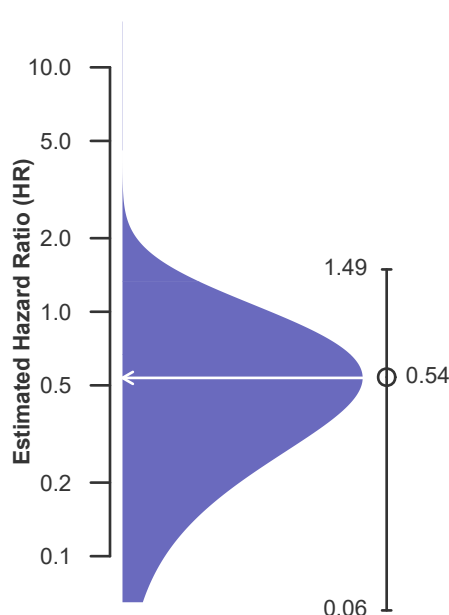
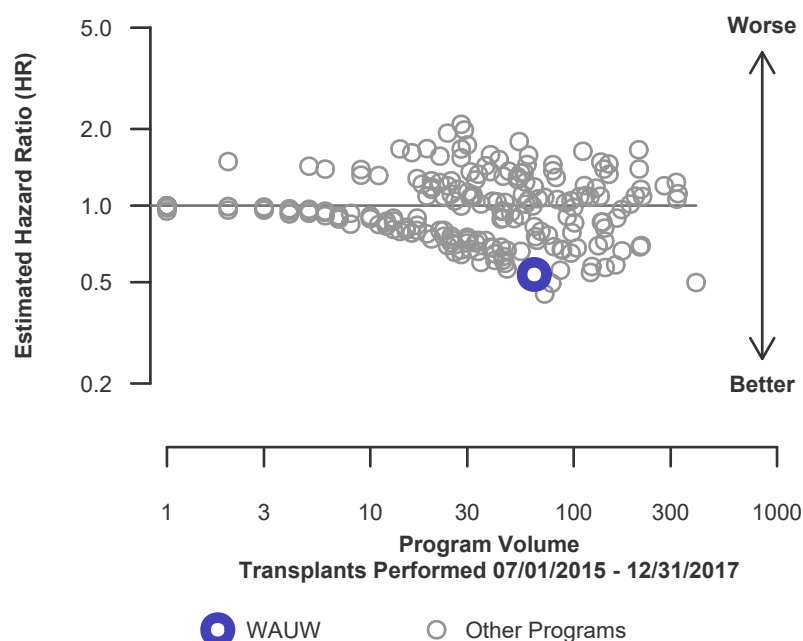


Figure C18L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





C. Transplant Information

Table C14. Pediatric (<18) 1-month patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C19. Pediatric (<18)
1-month patient death HR
estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C20. Pediatric (<18) 1-month patient death HR program
comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C19D. Pediatric (<18)
1-month patient death HR
estimate (deceased donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C20D. Pediatric (<18) 1-month patient death HR
program comparison (deceased donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C14L. Pediatric (<18) 1-month patient survival (living donor graft recipients)
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C19L. Pediatric (<18)
1-month patient death HR
estimate (living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C20L. Pediatric (<18) 1-month patient death HR
program comparison (living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C15. Pediatric (<18) 1-year patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C21. Pediatric (<18) 1-year patient death HR estimate

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C22. Pediatric (<18) 1-year patient death HR program comparison

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C21D. Pediatric (<18)
1-year patient death HR estimate
(deceased donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C22D. Pediatric (<18) 1-year patient death HR program
comparison (deceased donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C15L. Pediatric (<18) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C21L. Pediatric (<18) 1-year patient death HR estimate (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C22L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C16. Pediatric (<18) 3-year patient survival

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

Figure C23. Pediatric (<18) 3-year patient death HR estimate

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

Figure C24. Pediatric (<18) 3-year patient death HR program comparison

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)
Single organ transplants performed between 07/01/2015 and 12/31/2017
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

**Figure C23D. Pediatric (<18)
3-year patient death HR estimate
(deceased donor grafts)**

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

**Figure C24D. Pediatric (<18) 3-year patient death HR program
comparison (deceased donor grafts)**

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C16L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

Figure C23L. Pediatric (<18) 3-year patient death HR estimate (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

Figure C24L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C17. Multi-organ transplant graft survival: 01/01/2018 - 06/30/2020

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Kidney Graft Failures		Estimated Kidney Graft Survival	
	WAUW-TX1	USA	WAUW-TX1	USA	WAUW-TX1	USA
Kidney-Heart	8	550	0	80	100.0%	85.5%
Kidney-Liver	18	1,732	0	211	100.0%	87.8%
Kidney-Pancreas	12	2,064	0	92	100.0%	95.5%

Pediatric (<18) Transplants

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

Table C18. Multi-organ transplant patient survival: 01/01/2018 - 06/30/2020

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Patient Deaths		Estimated Patient Survival	
	WAUW-TX1	USA	WAUW-TX1	USA	WAUW-TX1	USA
Kidney-Heart	8	550	0	62	100.0%	88.7%
Kidney-Liver	18	1,732	0	172	100.0%	90.1%
Kidney-Pancreas	12	2,064	0	63	100.0%	96.9%

Pediatric (<18) Transplants

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



D. Living Donor Information

Table D1. Living donor summary: 01/01/2018 - 12/31/2020

Living Donor Follow-Up	This Center			United States		
	01/2018- 12/2018	01/2019- 12/2019	01/2020- 06/2020	01/2018- 12/2018	01/2019- 12/2019	01/2020- 06/2020
Number of Living Donors	38	48	11	6,443	6,866	2,300
6-Month Follow-Up						
Donors due for follow-up	38	48	11	6,442	6,863	2,250
Timely clinical data	35 92.1%	47 97.9%	10 90.9%	5,613 87.1%	5,680 82.8%	1,769 78.6%
Timely lab data	35 92.1%	47 97.9%	10 90.9%	5,388 83.6%	5,292 77.1%	1,715 76.2%
12-Month Follow-Up						
Donors due for follow-up	38	48		6,440	6,833	
Timely clinical data	35 92.1%	30 62.5%		5,365 83.3%	5,121 74.9%	
Timely lab data	36 94.7%	27 56.2%		5,051 78.4%	4,515 66.1%	
24-Month Follow-Up						
Donors due for follow-up	38			6,434		
Timely clinical data	26 68.4%			4,306 66.9%		
Timely lab data	25 65.8%			3,612 56.1%		

Follow-up completion standards through 2 years post-donation were implemented in policy on February 1, 2013.