

Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

### **COVID-19 Guide**

Adjustments to Transplant Program and OPO Evaluation Metrics

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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



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# **User Guide**

This report contains a wide range of useful information about the lung transplant program at University of Wisconsin Hospital and Clinics. 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 deceased donor transplant rate at this program was 732.6 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. Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2017 and 06/30/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.1 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2022 to calculate a particular percentile of transplant times.

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



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

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

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

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

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



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# A. Program Summary

Figure A1. Waiting list and transplant activity

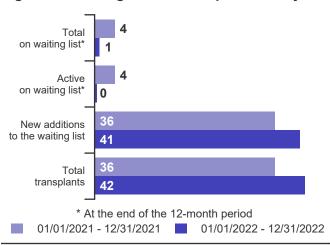


Table A1. Census of transplant recipients

Recipients	01/01/2021- 12/31/2021	01/01/2022- 12/31/2022
Transplanted at this center	36	42
Followed by this center*	261	246
transplanted at this program	n 255	234
transplanted elsewhere	6	12

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

Figure A2. Transplant rates 01/01/2021 - 12/31/2022

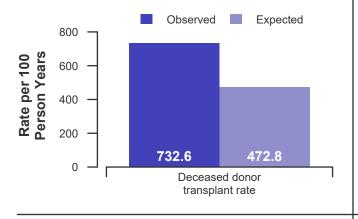


Figure A3. Pre-transplant mortality rates 01/01/2021 - 12/31/2022

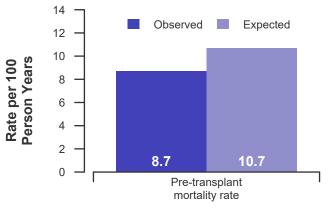


Figure A4. First-year adult graft and patient survival: 01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022

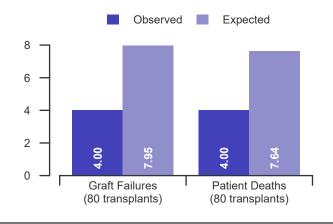
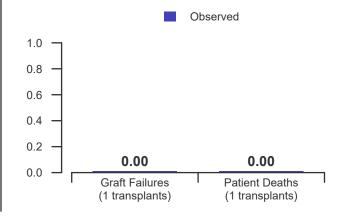


Figure A5. First-year pediatric graft & patient survival: 01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022





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

		nts for center	Activity for 01/01/2022 to 12/31/2022 as percent of registrants on waiting lis on 01/01/2022			
Waiting List Registrations	01/01/2021- 12/31/2021	01/01/2022- 12/31/2022	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	5	4	100.0	100.0	100.0	
New listings at this center	36	41	1,025.0	246.0	297.7	
Removals						
Transferred to another center	0	0	0.0	1.6	1.8	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	36	42	1,050.0	231.7	255.9	
Died	0	1	25.0	10.3	13.5	
Transplanted at another center	0	0	0.0	0.8	2.6	
Deteriorated	0	1	25.0	11.9	13.8	
Recovered	1	0	0.0	3.2	3.9	
Other reasons	0	0	0.0	7.1	13.6	
On waiting list at end of period	4	1	25.0	79.4	92.7	

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



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

Domographia Characteristic		ting List Regi 022 to 12/31/2		All Waiting List Registrations on 12/31/2022 (%)			
Demographic Characteristic	This Center (N=41)	OPTN Region (N=310)	U.S. (N=3,132)	This Center (N=1)	OPTN Region (N=100)	U.S. (N=975)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	90.2	76.8	70.0	100.0	76.0	66.9	
African-American	9.8	10.0	10.2	0.0	11.0	14.1	
Hispanic/Latino	0.0	8.4	14.3	0.0	9.0	14.2	
Asian	0.0	3.5	4.7	0.0	3.0	4.5	
Other	0.0	1.3	0.9	0.0	1.0	0.4	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	0.0	0.2	0.0	0.0	0.5	
2-11 years	0.0	0.0	0.4	0.0	0.0	1.2	
12-17 years	0.0	0.0	8.0	0.0	0.0	1.0	
18-34 years	4.9	6.5	5.2	0.0	7.0	7.2	
35-49 years	4.9	9.4	11.7	0.0	12.0	13.2	
50-64 years	65.9	47.4	43.8	100.0	56.0	49.8	
65-69 years	14.6	23.2	24.1	0.0	18.0	19.2	
70+ years	9.8	13.5	13.8	0.0	7.0	7.8	
Gender (%)							
Male	75.6	57.4	59.9	100.0	35.0	39.8	
Female	24.4	42.6	40.1	0.0	65.0	60.2	

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



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Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2022 and 12/31/2022

Medical Characteristic		ting List Regis 022 to 12/31/20		All Waiting List Registrations on 12/31/2022 (%)			
medical Characteristic	This Center (N=41)	OPTN Region (N=310)	U.S. (N=3,132)	This Center (N=1)	OPTN Region (N=100)	U.S. (N=975)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	48.8	46.8	46.8	100.0	41.0	53.4	
A	36.6	37.7	38.0	0.0	43.0	34.2	
В	9.8	12.9	11.9	0.0	14.0	9.8	
AB	4.9	2.6	3.3	0.0	2.0	2.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	2.4	1.9	3.3	0.0	1.0	3.6	
No	97.6	98.1	96.7	100.0	99.0	96.4	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Idiopathic Pulmonary Arterial Hypertension	2.4	5.8	7.3	0.0	7.0	10.5	
Cystic Fibrosis	2.4	2.6	1.9	0.0	5.0	3.1	
Idiopathic Pulmonary Fibrosis	78.0	64.8	65.9	0.0	47.0	56.1	
Emphysema/COPD	9.8	17.1	16.4	100.0	35.0	25.6	
Other	7.3	9.7	8.5	0.0	6.0	4.7	
Missing	0.0	0.0	0.0	0.0	0.0	0.0	



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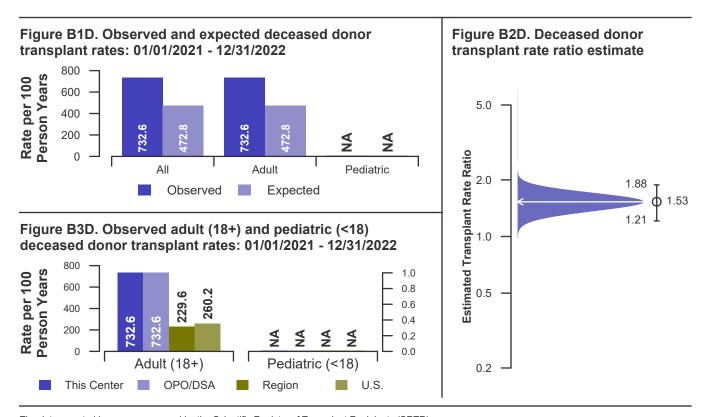
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Table B4D. Deceased donor transplant rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	5	5	112	987
Person Years**	10.6	10.6	230.4	2,064.4
Removals for Transplant	78	78	530	5,311
Adult (18+) Candidates				
Count on waiting list at start*	5	5	112	969
Person Years**	10.6	10.6	230.0	2,022.5
Removals for transpant	78	78	528	5,263
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

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

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





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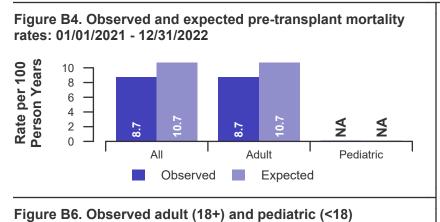
# **B.** Waiting List Information

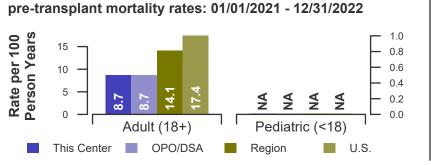
Table B5. Pre-transplant mortality rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	5	5	112	987
Person Years**	11.5	11.5	269.1	2,417.1
Number of deaths	1	1	38	419
Adult (18+) Candidates				
Count on waiting list at start*	5	5	112	969
Person Years**	11.5	11.5	268.8	2,365.1
Number of deaths	1	1	38	411
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Number of deaths				

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

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or December 31.





rate ratio estimate

5.0

oith 2.0

output

0.93

0.19

Figure B5. Pre-transplant mortality



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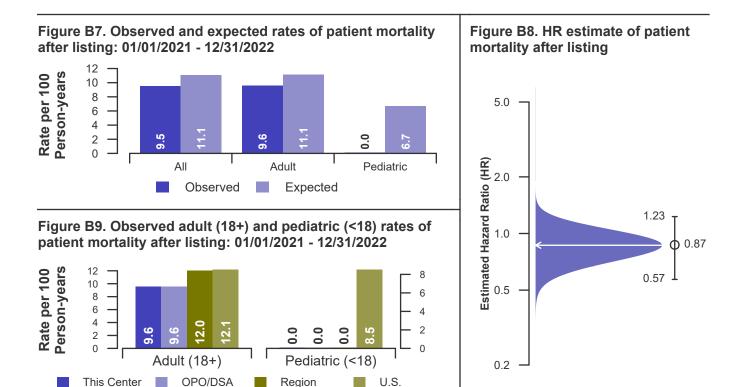
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Table B6. Rates of patient mortality after listing: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	201	201	1,424	17,120
Person-years*	253.1	253.1	1,767.2	22,184.9
Number of Deaths	24	24	212	2,681
Adult (18+) Patients				
Count at risk during the evaluation period	200	200	1,420	16,859
Person-years*	251.1	251.1	1,761.7	21,831.6
Number of Deaths	24	24	212	2,651
Pediatric (<18) Patients				
Count at risk during the evaluation period	1	1	4	261
Person-years*	2.0	2.0	5.5	353.3
Number of Deaths	0	0	0	30

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

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





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

Waiting list status (survival status)		Center (N ns Since L	,	U.S. (N=3,022) Months Since Listing			
	6	12	18	6	12	18	
Alive on waiting list (%)	5.0	0.0	0.0	15.8	7.5	4.0	
Died on the waiting list without transplant (%)	0.0	0.0	0.0	3.2	3.8	4.0	
Removed without transplant (%):							
Condition worsened (status unknown)	0.0	0.0	0.0	3.1	3.8	4.2	
Condition improved (status unknown)	2.5	2.5	2.5	0.6	8.0	1.0	
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.1	0.1	
Other	0.0	0.0	0.0	1.9	2.8	3.4	
Transplant (living or deceased donor) (%):							
Functioning (alive)	87.5	85.0	45.0	70.0	68.6	42.8	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.1	0.1	
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0	
Died	5.0	10.0	12.5	4.7	8.5	12.2	
Status Yet Unknown*	0.0	2.5	40.0	0.4	3.7	27.9	
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.2	0.4	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	5.0	10.0	12.5	7.9	12.3	16.1	
Total % known died or removed as unstable	5.0	10.0	12.5	11.0	16.2	20.4	
Total % removed for transplant	92.5	97.5	97.5	75.0	80.8	82.9	
Total % with known functioning transplant (alive)	87.5	85.0	45.0	70.0	68.6	42.8	

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



Center Code: WIUW Transplant Program (Organ): Lung

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

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# **B.** Waiting List Information

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

		P	ercent t	ranspla	nted at t	ime pei	riods sir	nce listi	ng	
Characteristic		TI	nis Cent	ter			Un	ited Sta	ites	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	92	34.8	90.2	95.7	95.7	9,517	32.3	74.2	79.2	80.6
Ethnicity/Race*										
White	78	34.6	92.3	97.4	97.4	7,187	33.4	76.8	81.4	82.6
African-American	9	33.3	88.9	100.0	100.0	1,002	28.8	66.5	73.0	75.0
Hispanic/Latino	3	0.0	33.3	33.3	33.3	984	30.0	67.4	73.4	75.0
Asian	1	100.0	100.0	100.0	100.0	276	25.4	60.1	67.0	67.8
Other	1	100.0	100.0	100.0	100.0	68	23.5	69.1	76.5	77.9
Unknown	0					0				
Age										
<2 years	0					25	16.0	52.0	52.0	52.0
2-11 years	0					51	5.9	47.1	52.9	56.9
12-17 years	1	0.0	100.0	100.0	100.0	116	39.7	69.8	72.4	72.4
18-34 years	12	41.7	91.7	91.7	91.7	822	31.9	72.1	76.8	77.7
35-49 years	12	41.7	91.7	100.0	100.0	1,147	31.2	70.7	75.5	77.0
50-64 years	52	32.7	88.5	94.2	94.2	4,203	30.5	72.9	79.1	80.9
65-69 years	14	28.6	92.9	100.0	100.0	2,150	33.7	77.3	81.5	82.5
70+ years	1	100.0	100.0	100.0	100.0	1,003	39.2	80.8	83.7	84.2
Gender										
Male	67	35.8	94.0	98.5	98.5	5,410	38.7	80.1	83.8	84.6
Female	25	32.0	80.0	88.0	88.0	4,107	23.8	66.3	73.1	75.3

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



Center Code: WIUW
Transplant Program (Organ)

Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

# **B.** Waiting List Information

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

Characteristic	Percent transplanted at time periods since listing This Center United States									
	N				3 years	N				3 years
All	92	34.8	90.2	95.7	95.7	9,517	32.3	74.2	79.2	80.6
Blood Type										
Ο	39	25.6	82.1	94.9	94.9	4,510	30.7	70.2	75.9	77.5
A	39	41.0	94.9	94.9	94.9	3,543	35.2	79.0	83.1	84.3
В	7	57.1	100.0	100.0	100.0	1,087	28.9	73.1	78.7	80.1
AB	7	28.6	100.0	100.0	100.0	377	33.2	79.8	82.8	83.0
Previous Transplant										
Yes	2	100.0	100.0	100.0	100.0	346	34.1	70.5	73.1	73.7
No	90	33.3	90.0	95.6	95.6	9,171	32.2	74.3	79.4	80.8
Primary Disease										
Congenital Disease	0					0				
Retransplant/Graft Failure	0					0				
Idiopathic Pulmonary Arterial Hypertension	1	100.0	100.0	100.0	100.0	625	25.3	58.4	62.1	64.5
Cystic Fibrosis	16	50.0	87.5	93.8	93.8	860	33.1	76.0	80.7	81.3
Idiopathic Pulmonary Fibrosis	50	42.0	96.0	96.0	96.0	5,635	37.4	77.7	81.5	82.3
Alpha-1-Antitrypsin Deficiency	0					0				
Emphysema/COPD	21	4.8	76.2	95.2	95.2	2,146	21.4	70.2	78.9	81.5
Other	4	25.0	100.0	100.0	100.0	251	25.5	62.9	68.1	70.5
Missing	0					0				



Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

# **B.** Waiting List Information

Table B10. Time to transplant for waiting list candidates\*

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

	Months to Transplant**								
Percentile	Center	OPO/DSA	Region	U.S.					
5th	0.1	0.1	0.2	0.1					
10th	0.2	0.2	0.2	0.2					
25th	0.3	0.3	0.6	0.6					
50th (median time to transplant)	1.0	1.0	2.5	2.0					
75th	3.2	3.2	15.0	9.2					

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

<sup>\*\*</sup> Censored on 12/31/2022. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



Center Code: WIUW Transplant Program (Organ): Lung

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	676	676	5,342	50,843
Number of Acceptances	40	40	284	2,646
Expected Acceptances	42.5	42.5	311.4	2,646.2
Offer Acceptance Ratio*	0.94	0.94	0.91	1.00
95% Credible Interval**	[0.68, 1.25]			
PHS increased infectious risk				
Number of Offers	112	112	769	8,329
Number of Acceptances	11	11	52	505
Expected Acceptances	8.2	8.2	53.0	502.9
Offer Acceptance Ratio*	1.28	1.28	0.98	1.00
95% Credible Interval**	[0.68, 2.06]			
Donor was current smoker				
Number of Offers	53	53	492	4,521
Number of Acceptances	0	0	14	182
Expected Acceptances	2.3	2.3	20.6	181.2
Offer Acceptance Ratio*	0.46	0.46	0.71	1.00
95% Credible Interval**	[0.06, 1.28]			
Donor age >= 55				
Number of Offers	69	69	947	7,432
Number of Acceptances	5	5	29	302
Expected Acceptances	4.1	4.1	39.9	307.5
Offer Acceptance Ratio*	1.15	1.15	0.74	0.98
95% Credible Interval**	[0.46, 2.15]			
Hard-to-Place Lungs (Over 50 Offers)				
Number of Offers	181	181	1,466	15,371
Number of Acceptances	1	1	21	310
Expected Acceptances	5.2	5.2	35.8	317.4
Offer Acceptance Ratio*	0.41	0.41	0.61	0.98
95% Credible Interval**	[0.09, 1.00]			
Donor more than 500 miles away				
Number of Offers	191	191	1,388	13,180
Number of Acceptances	11	11	55	520
Expected Acceptances	9.5	9.5	63.8	502.0
Offer Acceptance Ratio*	1.13	1.13	0.87	1.04
95% Credible Interval**	[0.60, 1.82]			

<sup>\*</sup> The offer acceptance ratio estimates the relative offer acceptance practice of University of Wisconsin Hospital and Clinics 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).

<sup>\*\*</sup> As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.68, 1.25], indicates the location of WIUW's true offer acceptance ratio with 95% probability. The best estimate is 6% less likely to accept an offer compared to nationalacceptance behavior, but WIUW's performance could plausibly range from 32% reduced acceptance up to 25% higher acceptance.



Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# **B.** Waiting List Information

Figure B10. Offer acceptance: Overall

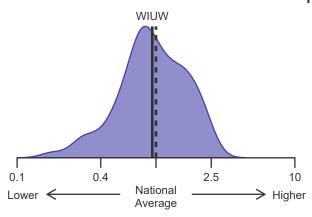


Figure B11. Offer acceptance: PHS increased infectious risk

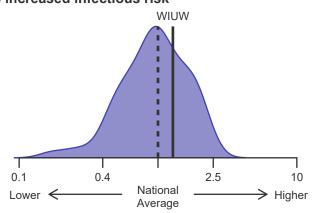


Figure B12. Offer acceptance: Donor was current smoker

Lower ←

WIUW 0.1 2.5 10 0.4 National

Average

Figure B13. Offer acceptance: Donor age >= 55

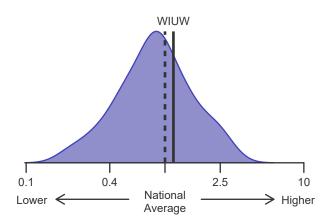
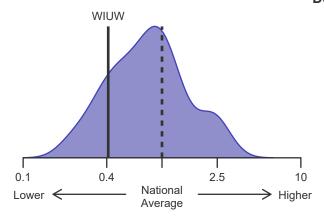
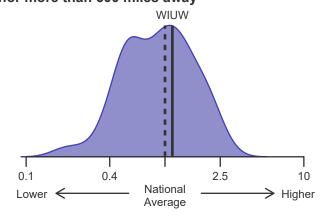


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance: Donor more than 500 miles away

Higher







Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# C. Transplant Information

# Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2022 and 12/31/2022

	Percentage		ategory
Characteristic	Center (N=42)	Region (N=292)	U.S. (N=2,692)
Ethnicity/Race (%)*			
White	92.9	78.1	71.3
African-American	7.1	10.6	9.0
Hispanic/Latino	0.0	6.8	14.5
Asian	0.0	3.1	4.4
Other	0.0	1.4	0.8
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	0.1
2-11 years	0.0	0.0	0.2
12-17	0.0	0.0	0.4
18-34	4.8	5.1	4.5
35-49 years	4.8	9.9	10.8
50-64 years	57.1	44.2	42.9
65-69 years	21.4	25.3	25.9
70+ years	11.9	15.4	15.3
Gender (%)			
Male	71.4	58.6	62.1
Female	28.6	41.4	37.9

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



Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

# **C. Transplant Information**

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

Percentage i			ategory
Characteristic	Center (N=42)	Region (N=292)	U.S. (N=2,692)
Blood Type (%)			
0	42.9	47.3	46.9
A	40.5	37.0	38.3
В	11.9	13.4	11.6
AB	4.8	2.4	3.2
Previous Transplant (%)			
Yes	2.4	2.4	3.0
No	97.6	97.6	97.0
Body Mass Index (%)			
0-20	4.8	14.4	13.9
21-25	38.1	31.8	33.7
26-30	45.2	42.8	39.0
31-35	11.9	11.0	12.2
36-40	0.0	0.0	0.6
41+	0.0	0.0	0.2
Unknown	0.0	0.0	0.5
Primary Disease (%)			
Idiopathic Pulmonary Arterial Hypertension	2.4	5.8	5.5
Cystic Fibrosis	2.4	2.1	2.5
Idiopathic Pulmonary Fibrosis	78.6	64.4	63.9
Emphysema/COPD	9.5	19.5	18.9
Other	7.1	8.2	9.2
Missing	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	76.2	71.6	70.6
Hospitalized	2.4	12.0	11.9
ICU	21.4	16.4	17.1
Unknown	0.0	0.0	0.4



Center Code: WIUW Transplant Program (Organ): Lung

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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# **C. Transplant Information**

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

	Percei	Percentage in each category		
Donor Characteristic	Center (N=42)	Region (N=292)	U.S. (N=2,692)	
Cause of Death (%)				
Deceased: Stroke	14.3	25.0	26.3	
Deceased: MVA	21.4	14.7	13.4	
Deceased: Other	64.3	60.3	60.3	
Ethnicity/Race (%)*				
White	78.6	67.1	58.5	
African-American	14.3	18.5	18.7	
Hispanic/Latino	2.4	8.9	18.1	
Asian	2.4	3.4	3.6	
Other	2.4	2.1	1.0	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.0	0.1	
2-11 years	0.0	0.0	0.4	
12-17	2.4	6.5	5.8	
18-34	57.1	39.7	42.3	
35-49 years	28.6	33.6	33.1	
50-64 years	11.9	19.9	16.8	
65-69 years	0.0	0.0	1.3	
70+ years	0.0	0.3	0.2	
Gender (%)				
Male	69.0	61.0	60.5	
Female	31.0	39.0	39.5	
Blood Type (%)				
0	45.2	53.1	53.5	
A	38.1	33.2	33.7	
В	11.9	12.7	10.9	
AB	4.8	1.0	1.9	
Unknown	0.0	0.0	0.0	

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



Center Code: WIUW Transplant Program (Organ): Lung

Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

# **C. Transplant Information**

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

	Percentage in each category		
Transplant Characteristic	Center	Region	U.S.
	(N=42)	(N=292)	(N=2,692)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	0.0	0.1
Deceased: 91-180 min	0.0	9.7	5.9
Deceased: 181-270 min	14.3	37.5	32.6
Deceased: 271-360 min	71.4	30.6	32.8
Deceased: 361+ min	14.3	22.2	27.9
Not Reported	0.0	0.0	0.7
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.0	0.2
Deceased: 91-180 min	0.0	1.8	0.9
Deceased: 181-270 min	2.9	16.8	11.2
Deceased: 271-360 min	20.0	43.2	33.5
Deceased: 361+ min	77.1	38.2	53.9
Not Reported	0.0	0.0	0.4
Procedure Type (%)			
Single organ	95.2	98.6	98.8
Multi organ	4.8	1.4	1.2
Donor Location (%)			
Local Donation Service Area (DSA)	16.7	24.7	26.6
Another Donation Service Area (DSA)	83.3	75.3	73.4
Median Time in Hospital After Transplant	16.0 Days	17.0 Days	20.0 Days



Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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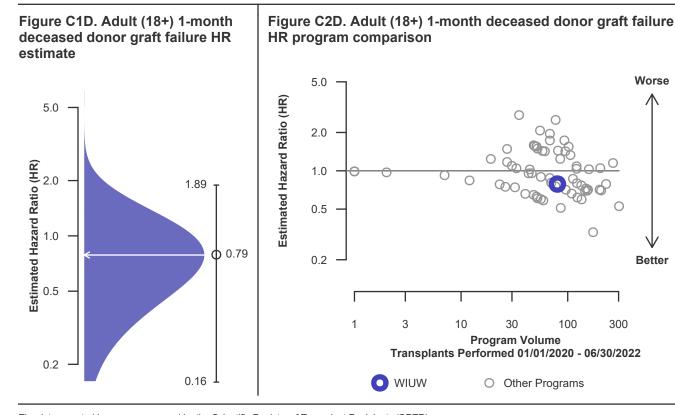
# **C. Transplant Information**

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	WIUW	U.S.
Number of transplants evaluated	80	5,709
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.70%	97.54%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.71%	
Number of observed graft failures (including deaths) during the first month after transplant	1	138
Number of expected graft failures (including deaths) during the first month after transplant	1.81	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.16, 1.89]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.16, 1.89], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but WIUW's performance could plausibly range from 84% reduced risk up to 89% increased risk.





Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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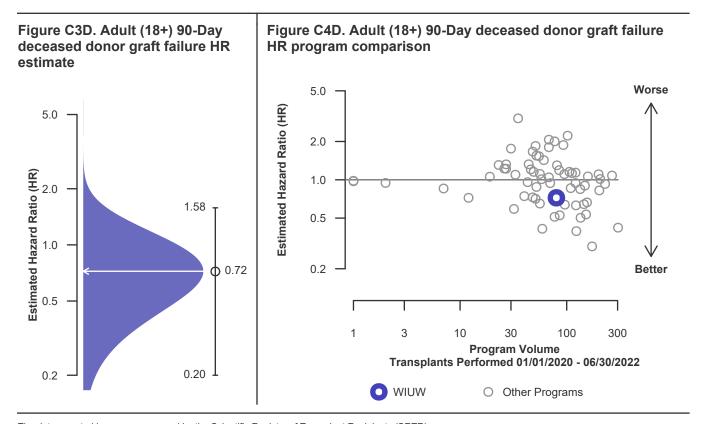
# **C. Transplant Information**

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	WIUW	U.S.
Number of transplants evaluated	80	5,709
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	97.39%	95.08%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.41%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	267
Number of expected graft failures (including deaths) during the first 90 days after transplant	3.54	
Estimated hazard ratio*	0.72	
95% credible interval for the hazard ratio**	[0.20, 1.58]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.20, 1.58], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 28% lower risk of graft failure compared to an average program, but WIUW's performance could plausibly range from 80% reduced risk up to 58% increased risk.





Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

# **C. Transplant Information**

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

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

	WIUW	U.S.
Number of transplants evaluated	80	5,709
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	94.17%	87.62%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	88.35%	
Number of observed graft failures (including deaths) during the first year after transplant	4	589
Number of expected graft failures (including deaths) during the first year after transplant	7.95	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.22, 1.17]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

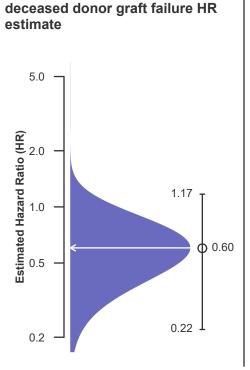
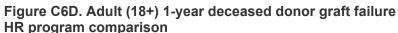
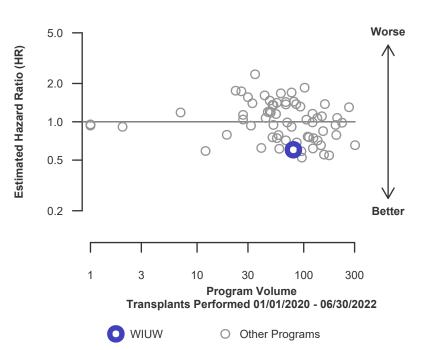


Figure C5D. Adult (18+) 1-year





<sup>\*\*</sup> The 95% credible interval, [0.22, 1.17], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 40% lower risk of graft failure compared to an average program, but WIUW's performance could plausibly range from 78% reduced risk up to 17% increased risk.



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# C. Transplant Information

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

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

	WIUW	U.S.
Number of transplants evaluated	71	4,883
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		92.15%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	92.60%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	2	322
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	4.41	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.17, 1.37]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

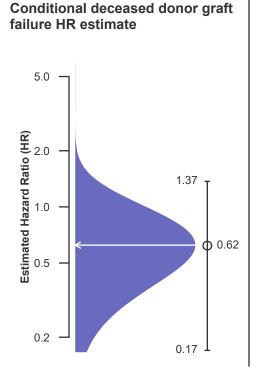
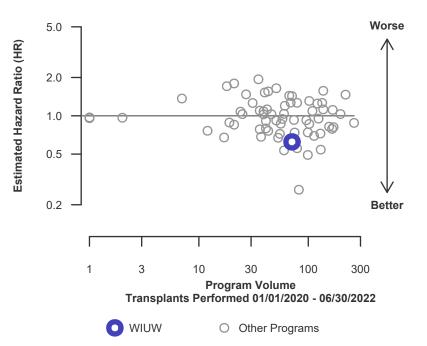


Figure C7D. Adult (18+) 1-year





<sup>\*\*</sup> The 95% credible interval, [0.17, 1.37], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 38% lower risk of graft failure compared to an average program, but WIUW's performance could plausibly range from 83% reduced risk up to 37% increased risk.



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# C. Transplant Information

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

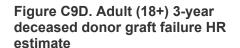
Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures

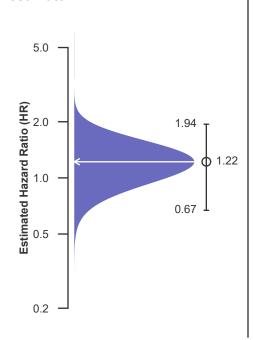
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	WIUW	U.S.
Number of transplants evaluated	78	6,308
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	74.36%	76.00%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	77.33%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	12	898
Number of expected graft failures (including deaths) during the first 3 years after transplant	9.48	
Estimated hazard ratio*	1.22	
95% credible interval for the hazard ratio**	[0.67, 1.94]	

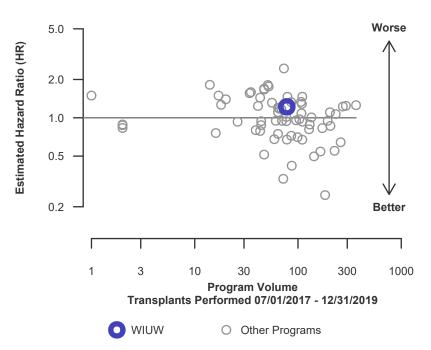
<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

<sup>\*\*</sup> The 95% credible interval, [0.67, 1.94], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 22% higher risk of graft failure compared to an average program, but WIUW's performance could plausibly range from 33% reduced risk up to 94% increased risk.





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





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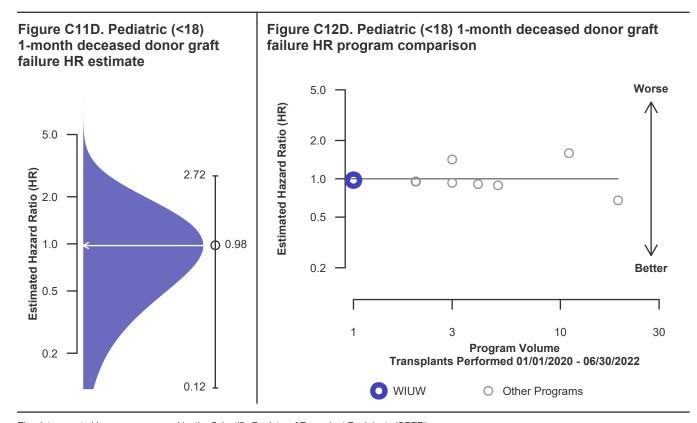
# **C. Transplant Information**

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	WIUW	U.S.
Number of transplants evaluated	1	61
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	95.05%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	95.09%	
Number of observed graft failures (including deaths) during the first month after transplant	0	3
Number of expected graft failures (including deaths) during the first month after transplant	0.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





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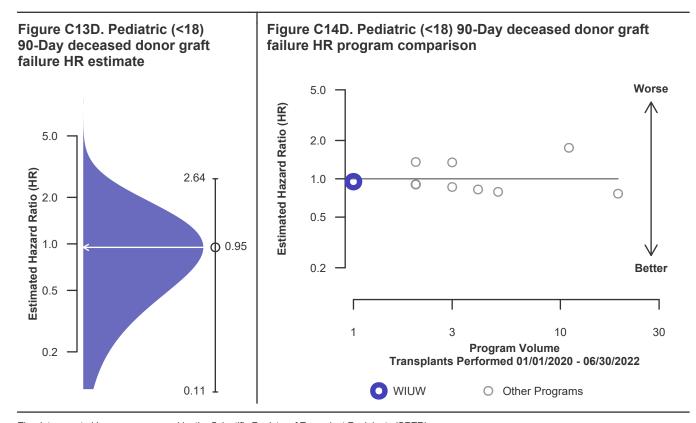
# C. Transplant Information

Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	WIUW	U.S.
Number of transplants evaluated	1	61
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	89.79%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	89.88%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	6
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.11	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.64]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.11, 2.64], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but WIUW's performance could plausibly range from 89% reduced risk up to 164% increased risk.





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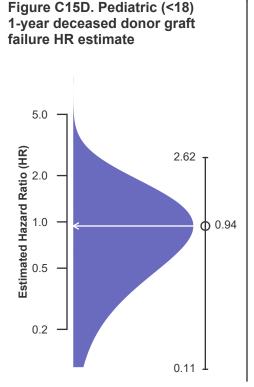
# C. Transplant Information

Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

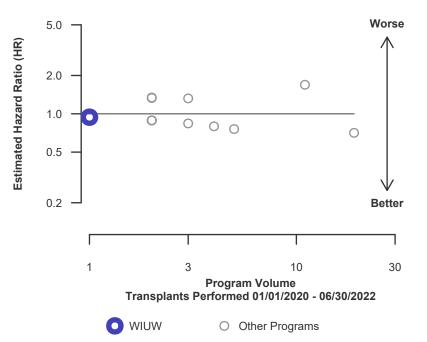
	WIUW	U.S.
Number of transplants evaluated	1	61
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	87.96%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	88.07%	
Number of observed graft failures (including deaths) during the first year after transplant	0	7
Number of expected graft failures (including deaths) during the first year after transplant	0.13	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.62]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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









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# C. Transplant Information

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

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

	WIUW	U.S.
Number of transplants evaluated	1	49
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	97.96%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.98%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	1
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

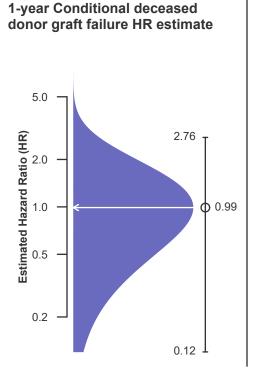
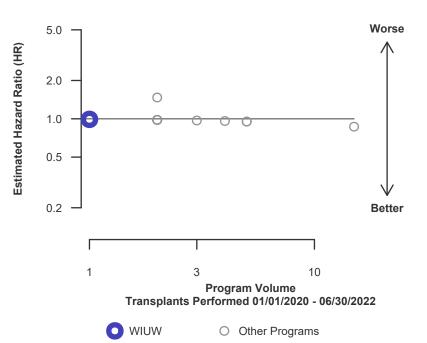


Figure C17D. Pediatric (<18)





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



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# C. Transplant Information

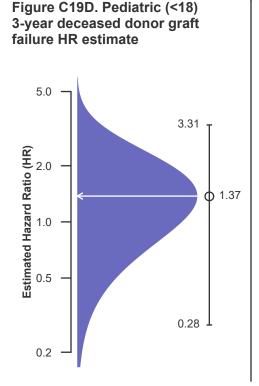
## Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

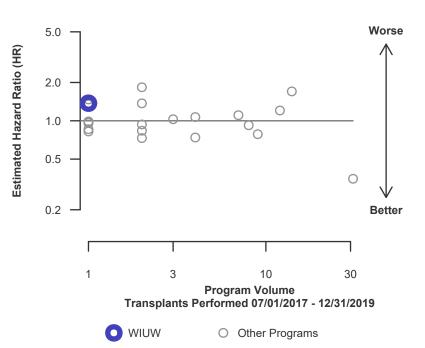
	WIUW	U.S.
Number of transplants evaluated	1	112
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	0.00%	64.92%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	65.30%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	21
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.18	
Estimated hazard ratio*	1.37	
95% credible interval for the hazard ratio**	[0.28, 3.31]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.28, 3.31], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 37% higher risk of graft failure compared to an average program, but WIUW's performance could plausibly range from 72% reduced risk up to 231% increased risk.









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# C. Transplant Information

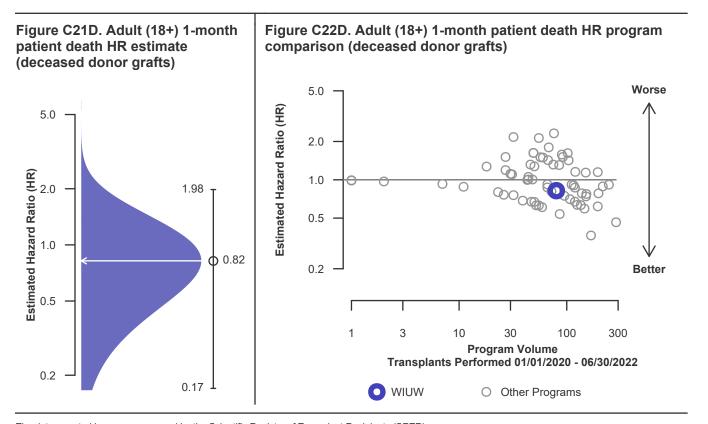
Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

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

	WIUW	U.S.
Number of transplants evaluated	80	5,530
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	98.70%	97.77%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.91%	
Number of observed deaths during the first month after transplant	1	121
Number of expected deaths during the first month after transplant	1.65	
Estimated hazard ratio*	0.82	
95% credible interval for the hazard ratio**	[0.17, 1.98]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.17, 1.98], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 18% lower risk of patient death compared to an average program, but WIUW's performance could plausibly range from 83% reduced risk up to 98% increased risk.





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# C. Transplant Information

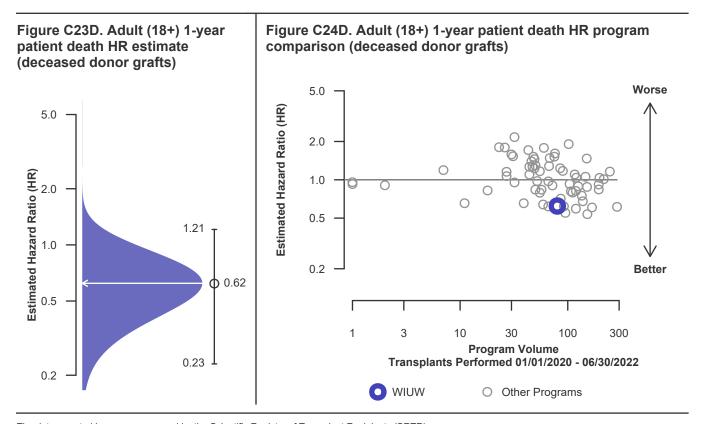
Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients)

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

	WIUW	U.S.
Number of transplants evaluated	80	5,530
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	94.17%	88.25%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	88.85%	
Number of observed deaths during the first year after transplant	4	543
Number of expected deaths during the first year after transplant	7.64	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.23, 1.21]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.23, 1.21], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 38% lower risk of patient death compared to an average program, but WIUW's performance could plausibly range from 77% reduced risk up to 21% increased risk.





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# C. Transplant Information

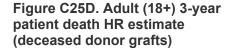
Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

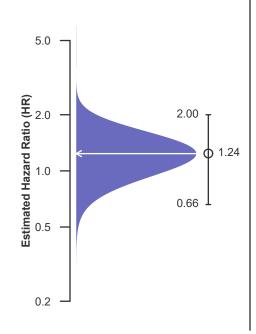
Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

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

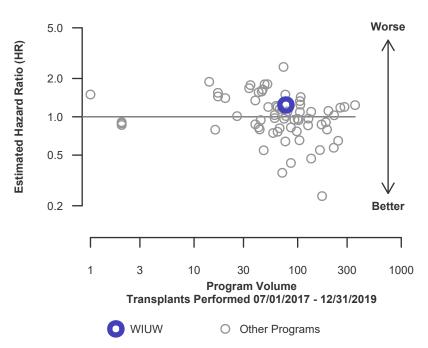
	WIUW	U.S.
Number of transplants evaluated	77	6,121
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	75.32%	78.03%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	79.64%	
Number of observed deaths during the first 3 years after transplant	11	815
Number of expected deaths during the first 3 years after transplant	8.51	
Estimated hazard ratio*	1.24	
95% credible interval for the hazard ratio**	[0.66, 2.00]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.





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



<sup>\*\*</sup> The 95% credible interval, [0.66, 2.00], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 24% higher risk of patient death compared to an average program, but WIUW's performance could plausibly range from 34% reduced risk up to 100% increased risk.



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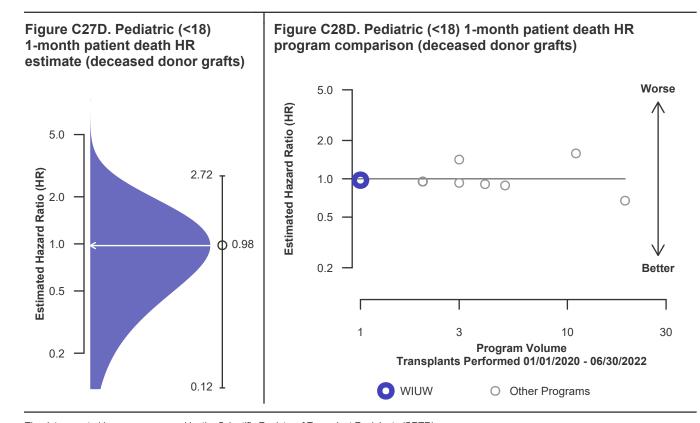
# C. Transplant Information

Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
Retransplants excluded

	WIUW	U.S.
Number of transplants evaluated	1	60
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	94.97%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	95.01%	
Number of observed deaths during the first month after transplant	0	3
Number of expected deaths during the first month after transplant	0.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





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# C. Transplant Information

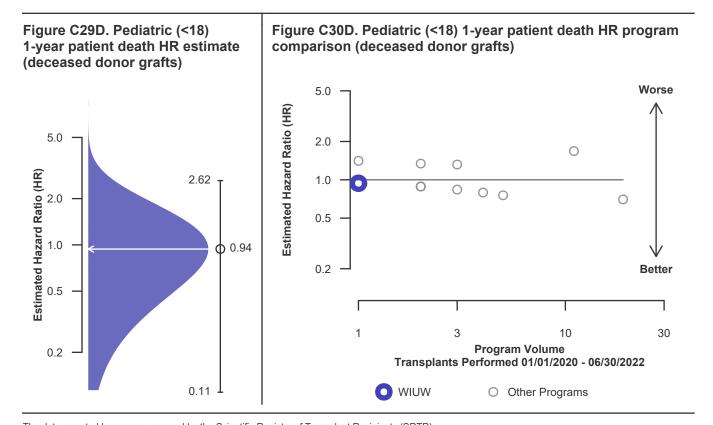
Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)

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

	WIUW	U.S.
Number of transplants evaluated	1	60
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	87.75%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	87.86%	
Number of observed deaths during the first year after transplant	0	7
Number of expected deaths during the first year after transplant	0.13	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.62]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





Center Code: WIUW Transplant Program (Organ): Lung Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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

# C. Transplant Information

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

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

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

	WIUW	U.S.
Number of transplants evaluated	1	106
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	0.00%	67.87%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	68.22%	
Number of observed deaths during the first 3 years after transplant	1	19
Number of expected deaths during the first 3 years after transplant	0.19	
Estimated hazard ratio*	1.37	
95% credible interval for the hazard ratio**	[0.28, 3.30]	

<sup>\*</sup> The hazard ratio provides an estimate of how University of Wisconsin Hospital and Clinics'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 WIUW's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

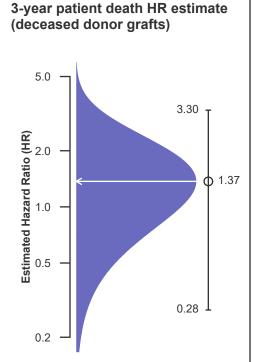
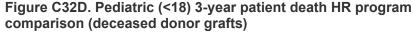
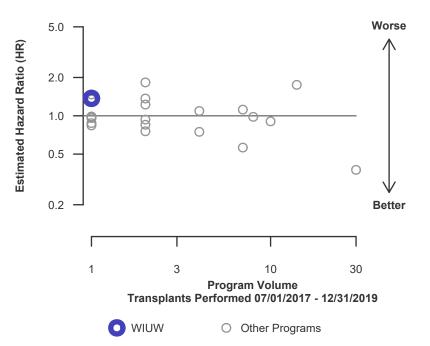


Figure C31D. Pediatric (<18)





<sup>\*\*</sup> The 95% credible interval, [0.28, 3.30], indicates the location of WIUW's true hazard ratio with 95% probability. The best estimate is 37% higher risk of patient death compared to an average program, but WIUW's performance could plausibly range from 72% reduced risk up to 230% increased risk.



Center Code: WIUW Transplant Program (Organ): Lung

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**First-Year Outcomes** 

# C. Transplant Information

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

Adult (18+) Transplants

Transplant Type	•	Transplants Performed		Lung Graft Failures		Estimated Lung Graft Survival	
	WIUW-TX1	USA	WIUW-TX1	USA	WIUW-TX1	USA	
Heart-Lung	1	120	0	20	100.0%	83.3%	
Kidney Lung	2	38	0	5	100.0%	85.1%	

### Pediatric (<18) Transplants

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

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

Adult (18+) Transplants **First-Year Outcomes** 

Transplant Type Transplants Performed		Patient Deaths		Estimated Patient Survival		
	WIUW-TX1	USA	WIUW-TX1	USA	WIUW-TX1	USA
Heart-Lung Kidney Lung	1 2	120 38	0	20 5	100.0% 100.0%	83.3% 86.8%

### Pediatric (<18) Transplants

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