

SCIENTIFIC REGISTRY OF TRANSPLANT

Seattle Children's Hospital

Center Code: WACH Transplant Program (Organ): Heart Release Date: January 5, 2021 RECIPIENTS Based on Data Available: October 31, 2020

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

# **User Guide**

Due to the pandemic's effect on the transplant system, adjustments have been made for this data reporting cycle and potentially future reporting cycles as well. For transplant programs, this means that SRTR will not include patient follow-up starting from March 12, 2020, the day prior to the emergency declaration, i.e., waitlist survival, transplant rate, and outcomes will not be assessed after that date.

This report contains a wide range of useful information about the heart transplant program at Seattle Children's Hospital (WACH). 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

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## User Guide

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 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 165.9 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 death rate (also known as the 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 waiting list mortality rate data in the previous section. The intent of this table and figures is to describe risk of death once candidates are listed rather than while they are listed, including after a transplant. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B8. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2014 and 12/31/2019. 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 06/30/2020 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

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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.

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.

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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### **Table of Contents**

Section	Page
User Guide	i
A. Program Summary	
Program Summary	1
B. Waiting List Information	
Waiting list activity	2
Demographic characteristics of waiting list candidates	3
Medical characteristics of waiting list candidates	4
Deceased donor transplant rates	5
Waiting list mortality rates	6
Patient survival from listing	7
Waiting list candidate status after listing	8
Percent of candidates with deceased donor transplants: demographic characteristic	cs 9
Percent of candidates with deceased donor transplants: medical characteristics	10
Time to transplant for waiting list candidates	11
Offer acceptance practices	12
C. Transplant Information	
Deceased donor transplant recipient demographic characteristics	14
Deceased donor transplant recipient medical characteristics	15
Deceased donor characteristics	16
Deceased donor transplant characteristics	17
Deceased donor graft survival	18
Deceased donor patient survival	24
Multi-organ transplant graft survival	30
Multi-organ transplant patient survival	30



SCIENTIFICSeattle Children's HospitalREGISTRY OFCenter Code: WACH

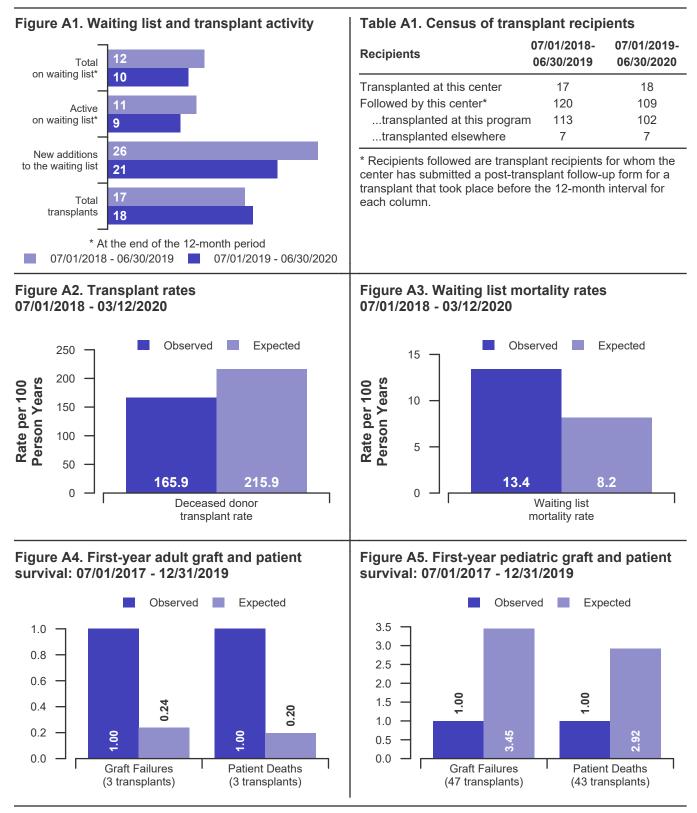
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## A. Program Summary





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## **B. Waiting List Information**

#### Table B1. Waiting list activity summary: 07/01/2018 - 06/30/2020

		ts for enter	Activity for 07/01/2019 to 06/30/2020 as percent of registrants on waiting I on 07/01/2019			
Waiting List Registrations	07/01/2018- 06/30/2019	07/01/2019- 06/30/2020	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	10	12	100.0	100.0	100.0	
New listings at this center	26	21	175.0	142.0	115.7	
Removals						
Transferred to another center	0	1	8.3	3.7	2.5	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	17	18	150.0	117.3	92.5	
Died	3	1	8.3	7.4	6.6	
Transplanted at another center	0	0	0.0	2.5	1.0	
Deteriorated	2	1	8.3	8.6	7.4	
Recovered	2	1	8.3	6.2	4.6	
Other reasons	0	1	8.3	6.2	8.6	
On waiting list at end of period	12	10	83.3	90.1	92.6	

\* 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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Seattle Children's Hospital

REGISTRY OFCenter Code: WACHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: January 5, 2021RECIPIENTSBased on Data Available: October 31, 2020

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### **B. Waiting List Information**

# Table B2. Demographic characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2019 and 06/30/2020

Demographic Characteristic		ting List Regi 019 to 06/30/2			ng List Regis 06/30/2020 (	
	This Center (N=21)	OPTN Region (N=115)	U.S. (N=4,403)	This Center (N=10)	OPTN Region (N=73)	U.S. (N=3,521)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	71.4	80.9	57.6	50.0	74.0	57.3
African-American	4.8	7.0	26.4	20.0	12.3	28.6
Hispanic/Latino	9.5	2.6	10.9	10.0	1.4	10.3
Asian	4.8	7.0	4.1	0.0	9.6	2.6
Other	9.5	2.6	1.1	20.0	2.7	1.2
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	33.3	6.1	6.4	20.0	2.7	4.6
2-11 years	28.6	5.2	4.3	30.0	4.1	4.2
12-17 years	33.3	6.1	4.2	40.0	5.5	3.6
18-34 years	4.8	7.8	9.4	10.0	12.3	10.7
35-49 years	0.0	14.8	18.8	0.0	19.2	22.4
50-64 years	0.0	41.7	40.9	0.0	49.3	44.1
65-69 years	0.0	18.3	13.5	0.0	6.8	9.3
70+ years	0.0	0.0	2.5	0.0	0.0	1.1
Gender (%)						
Male	33.3	63.5	70.9	40.0	65.8	75.1
Female	66.7	36.5	29.1	60.0	34.2	24.9

\* 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%.



Seattle Children's Hospital

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

### **B. Waiting List Information**

# Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2019 and 06/30/2020

Medical Characteristic	07/01/2	ting List Regis 019 to 06/30/20		on	All Waiting List Registrations on 06/30/2020 (%)			
	This Center (N=21)	OPTN Region (N=115)	U.S. (N=4,403)	This Center (N=10)	OPTN Region (N=73)	U.S. (N=3,521)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Blood Type (%)								
0	61.9	47.8	43.3	80.0	64.4	59.9		
A	28.6	35.7	37.1	10.0	23.3	28.3		
В	0.0	12.2	14.6	0.0	9.6	10.1		
AB	9.5	4.3	5.0	10.0	2.7	1.8		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Previous Transplant (%)								
Yes	0.0	3.5	3.3	10.0	1.4	3.4		
No	100.0	96.5	96.7	90.0	98.6	96.6		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Primary Disease (%)								
Cardiomyopathy	47.6	58.3	59.5	20.0	58.9	57.8		
Coronary Artery Disease	0.0	22.6	23.4	0.0	24.7	25.4		
Retransplant/Graft Failure	0.0	2.6	2.8	10.0	1.4	2.7		
Valvular Heart Disease	0.0	2.6	1.0	0.0	1.4	0.9		
Congenital Heart Disease	52.4	13.0	11.3	70.0	12.3	11.3		
Other	0.0	0.9	2.0	0.0	1.4	1.9		
Missing	0.0	0.0	0.0	0.0	0.0	0.0		
Medical Urgency Status at Listin	g (%)							
Status 1A	28.6	5.2	8.6	0.0	0.0	7.4		
Status 1B	33.3	6.1	3.5	30.0	12.3	17.0		
Status 2	33.3	6.1	2.4	60.0	24.7	19.9		
Adult Status 1	0.0	3.5	4.0	0.0	0.0	0.3		
Adult Status 2	0.0	13.9	19.2	0.0	1.4	2.8		
Adult Status 3	0.0	7.8	10.4	0.0	2.7	4.2		
Adult Status 4	4.8	30.4	31.0	10.0	27.4	27.3		
Adult Status 5	0.0	1.7	2.7	0.0	0.0	2.0		
Adult Status 6	0.0	25.2	16.1	0.0	31.5	15.8		
Temporarily Inactive	0.0	0.0	2.0	0.0	0.0	3.2		



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

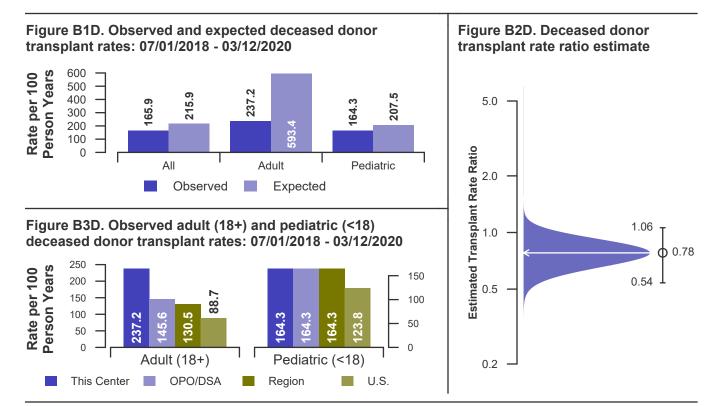
# **B. Waiting List Information**

### Table B4D. Deceased donor transplant rates: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	10	68	90	4,006
Person Years**	19.3	120.5	133.8	6,510.7
Removals for Transplant	32	179	181	6,017
Adult (18+) Candidates				
Count on waiting list at start*	0	58	80	3,584
Person Years**	0.4	101.6	115.0	5,820.7
Removals for transpant	1	148	150	5,163
Pediatric (<18) Candidates				
Count on waiting list at start*	10	10	10	422
Person Years**	18.9	18.9	18.9	690.0
Removals for transplant	31	31	31	854

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

\*\* Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, removal from the waiting list or March 12, 2020.





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Seattle Children's Hospital Center Code: WACH REGISTRY OF

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

## **B. Waiting List Information**

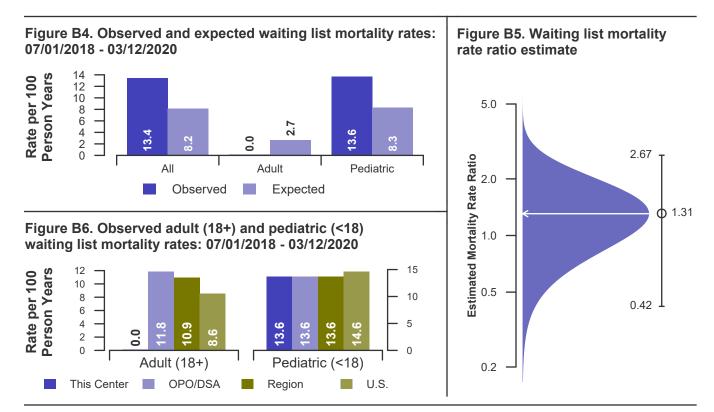
RECIPIENTS

#### Table B5. Waiting list mortality rates: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	10	68	90	4,006
Person Years**	22.4	132.0	149.8	7,365.6
Number of deaths	3	16	17	676
Adult (18+) Candidates				
Count on waiting list at start*	0	58	80	3,584
Person Years**	0.4	110.0	127.9	6,604.0
Number of deaths	0	13	14	565
Pediatric (<18) Candidates				
Count on waiting list at start*	10	10	10	422
Person Years**	22.0	22.0	22.0	761.7
Number of deaths	3	3	3	111

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

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





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REGISTRY OF TRANSPLANT

Center Code: WACH Transplant Program (Organ): Heart Release Date: January 5, 2021 Based on Data Available: October 31, 2020 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

# **B. Waiting List Information**

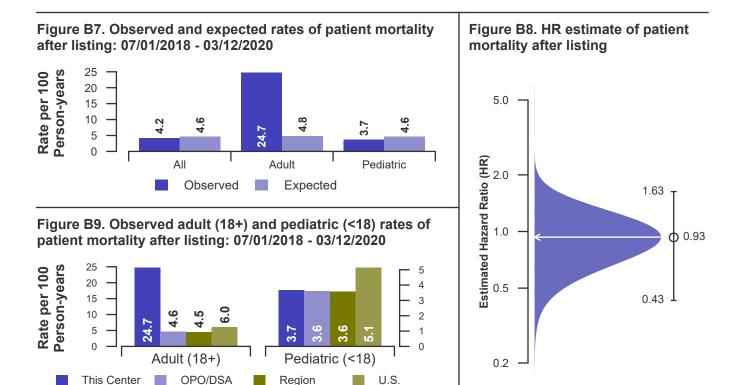
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### Table B6. Rates of patient mortality after listing: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	139	664	799	25,361
Person-years*	167.1	814.9	991.6	30,874.9
Number of Deaths	7	36	43	1,810
Adult (18+) Patients				
Count at risk during the evaluation period	4	527	660	21,649
Person-years*	4.1	648.5	823.4	26,386.5
Number of Deaths	1	30	37	1,580
Pediatric (<18) Patients				
Count at risk during the evaluation period	135	137	139	3,712
Person-years*	163.1	166.5	168.2	4,488.4
Number of Deaths	6	6	6	230

\* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2018, or from the date of first wait listing until death, reaching 5 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.





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# **B. Waiting List Information**

# Table B7. Waiting list candidate status after listingCandidates registered on waiting list between 01/01/2018 and 12/31/2018

Waiting list status (survival status)		Center (N ns Since L	,		U.S. (N=4,712) Ionths Since Listing			
	6	12	18	6	12	18		
Alive on waiting list (%)	14.3	7.1	3.6	40.3	26.5	19.2		
Died on the waiting list without transplant (%)	10.7	10.7	10.7	3.8	4.5	4.9		
Removed without transplant (%):								
Condition worsened (status unknown)	3.6	3.6	3.6	3.2	4.1	4.8		
Condition improved (status unknown)	0.0	3.6	3.6	0.9	2.0	2.6		
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.3	0.3		
Other	0.0	0.0	0.0	1.5	2.9	4.0		
Transplant (living or deceased donor) (%):								
Functioning (alive)	71.4	64.3	21.4	46.1	51.0	31.7		
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.1	0.2	0.2		
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0		
Died	0.0	3.6	3.6	2.7	4.0	5.2		
Status Yet Unknown*	0.0	7.1	53.6	0.4	3.4	25.9		
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.6	1.1	1.3		
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0		
 Total % known died on waiting list or after transplant	10.7	14.3	14.3	6.6	8.5	10.1		
Total % known died or removed as unstable	14.3	17.9	17.9	9.7	12.6	14.8		
Total % removed for transplant	71.4	75.0	78.6	49.5	58.6	63.0		
Total % with known functioning transplant (alive)	71.4	64.3	21.4	46.1	51.0	31.7		

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



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## **B. Waiting List Information**

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2014 and 06/30/2017

Characteristic	Percent transplanted at time periods since listing tic Dhis Center United States							-		
	Ν			2 years	3 years	N				3 years
All	65	40.0	80.0	86.2	86.2	13,465	16.1	54.0	62.5	65.2
Ethnicity/Race*										
White	33	48.5	78.8	87.9	87.9	8,260	16.2	53.7	62.4	65.2
African-American	5	20.0	100.0	100.0	100.0	3,128	14.4	50.7	59.9	62.4
Hispanic/Latino	13	38.5	92.3	100.0	100.0	1,410	16.4	58.9	66.3	68.9
Asian	9	33.3	66.7	66.7	66.7	530	23.0	62.1	69.6	72.1
Other	5	20.0	60.0	60.0	60.0	137	19.0	60.6	65.0	65.0
Unknown	0					0				
Age										
<2 years	28	39.3	78.6	78.6	78.6	812	19.0	60.7	61.9	62.2
2-11 years	21	38.1	76.2	85.7	85.7	602	14.1	62.6	69.9	72.4
12-17 years	14	42.9	92.9	100.0	100.0	533	25.0	72.8	80.3	81.6
18-34 years	2	50.0	50.0	100.0	100.0	1,257	16.2	50.2	58.3	61.8
35-49 years	0					2,527	12.2	47.8	58.9	62.1
50-64 years	0					5,717	15.5	53.1	62.5	65.6
65-69 years	0					1,717	17.5	54.5	62.5	64.5
70+ years	0					300	31.3	64.7	66.0	66.7
Gender										
Male	37	40.5	83.8	89.2	89.2	9,601	14.8	52.7	62.1	65.0
Female	28	39.3	75.0	82.1	82.1	3,864	19.4	57.0	63.6	65.9

\* 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%.



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## **B. Waiting List Information**

 Table B9. Percent of candidates with deceased donor transplants: medical characteristics

 Candidates registered on the waiting list between 07/01/2014 and 06/30/2017

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν	30 day	1 year	2 years	3 years	Ν	30 day	1 year	2 years	3 years
All	65	40.0	80.0	86.2	86.2	13,465	16.1	54.0	62.5	65.2
Blood Type										
0	31	29.0	80.6	87.1	87.1	5,951	10.1	44.9	54.9	58.2
A	24	45.8	83.3	87.5	87.5	4,947	19.5	60.0	67.5	69.9
В	7	71.4	71.4	85.7	85.7	1,918	19.7	60.2	68.2	70.4
AB	3	33.3	66.7	66.7	66.7	648	34.3	73.0	77.8	78.9
Previous Transplant										
Yes	6	66.7	100.0	100.0	100.0	572	11.9	43.5	49.0	51.9
No	59	37.3	78.0	84.7	84.7	12,893	16.3	54.4	63.1	65.8
Primary Disease										
Cardiomyopathy	17	41.2	100.0	100.0	100.0	7,633	16.9	55.9	65.2	67.9
Coronary Artery Disease	0					3,670	15.2	51.5	60.1	63.3
Retransplant/Graft Failure	6	66.7	100.0	100.0	100.0	486	11.1	43.2	48.8	51.9
Valvular Heart Disease	0					138	18.1	59.4	64.5	66.7
Congenital Heart Disease	40	37.5	70.0	80.0	80.0	1,344	14.8	53.9	60.1	61.8
Other	2	0.0	50.0	50.0	50.0	194	20.6	46.4	53.1	54.1
Missing	0					0				
Medical Urgency Status at Lis	ting									
Old Status 1	0					0				
Status 1A	38	47.4	84.2	84.2	84.2	4,226	30.7	68.6	72.1	73.1
Status 1B	14	35.7	92.9	92.9	92.9	5,351	12.9	55.1	65.4	68.3
Status 2	13	23.1	53.8	84.6	84.6	3,437	4.3	36.0	48.1	52.5
Unknown	0					451	6.7	39.7	48.6	51.9



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## **B. Waiting List Information**

# Table B10. Time to transplant for waiting list candidates\*Candidates registered on the waiting list between 07/01/2014 and 12/31/2019

		Months to T	ransplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.1	0.2	0.2	0.2
10th	0.2	0.4	0.4	0.4
25th	0.8	1.5	1.6	1.4
50th (median time to transplant)	2.5	4.8	5.5	6.9
75th	13.6	23.4	37.5	Not Observed

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

\*\* Censored on 06/30/2020. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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REGISTRY OFCenter Code: WACHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: January 5, 2021RECIPIENTSBased on Data Available: October 31, 2020

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### **B. Waiting List Information**

#### Table B11. Offer Acceptance Practices: 07/01/2019 - 03/12/2020

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	30	390	390	35,218
Number of Acceptances	15	64	64	2,275
Expected Acceptances	7.5	43.4	43.4	2,272.6
Offer Acceptance Ratio*	1.80	1.45	1.45	1.00
95% Credible Interval**	[1.05, 2.75]			
PHS increased infectious risk				
Number of Offers	8	137	137	12,275
Number of Acceptances	1	21	21	732
Expected Acceptances	1.1	13.1	13.1	730.1
Offer Acceptance Ratio*	0.97	1.52	1.52	1.00
95% Credible Interval**	[0.20, 2.33]			
Ejection fraction < 60				
Number of Offers	12	129	129	12,822
Number of Acceptances	3	12	12	643
Expected Acceptances	1.9	12.2	12.2	652.4
Offer Acceptance Ratio*	1.29	0.99	0.99	0.99
95% Credible Interval**	[0.42, 2.64]			
Donor Age >= 40				
Number of Offers	0	134	134	13,975
Number of Acceptances	0	12	12	484
Expected Acceptances	0.0	5.4	5.4	492.7
Offer Acceptance Ratio*		1.90	1.90	0.98
95% Credible Interval**	[,]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	0	64	64	10,412
Number of Acceptances	0	1	1	147
Expected Acceptances	0.0	0.7	0.7	151.1
Offer Acceptance Ratio*		1.11	1.11	0.97
95% Credible Interval**	[,]			
Donor more than 500 miles away				
Number of Offers	18	188	188	11,573
Number of Acceptances	6	19	19	468
Expected Acceptances	2.8	8.6	8.6	485.7
Offer Acceptance Ratio*	1.66	1.99	1.99	0.96
95% Credible Interval**	[0.72, 3.00]			

\* The offer acceptance ratio estimates the relative offer acceptance practice of Seattle Children's Hospital (WACH) 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 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, [1.05, 2.75], indicates the location of WACH's true offer acceptance ratio with 95% probability. The best estimate is 80% more likely to accept an offer compared to national acceptance behavior, but WACH's performance could plausibly range from 5% higher acceptance up to 175% higher acceptance.

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See User Guide for pandemic-related follow-up limits.

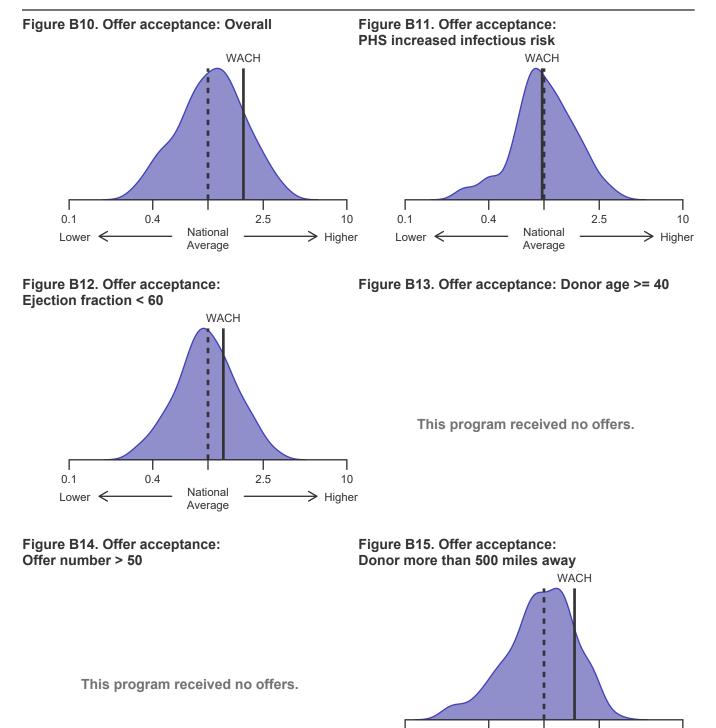


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REGISTRY OFCenter Code: WACHTRANSPLANTTransplant Program (Organ): HeartRECIPIENTSBased on Data Available: October 31, 2020

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### **B. Waiting List Information**



0.1

Lower <

0.4

National

Average

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10

→ Higher

2.5



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## **C. Transplant Information**

# Table C1D. Deceased donor transplant recipient demographic characteristicsPatients transplanted between 07/01/2019 and 06/30/2020

	Percer	Percentage in each category		
Characteristic	Center (N=18)	Region (N=95)	U.S. (N=3,519)	
Ethnicity/Race (%)*				
White	88.9	87.4	60.1	
African-American	0.0	4.2	24.3	
Hispanic/Latino	5.6	3.2	10.9	
Asian	0.0	4.2	3.9	
Other	5.6	1.1	0.9	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	27.8	5.3	4.5	
2-11 years	33.3	6.3	4.6	
12-17	33.3	6.3	4.2	
18-34	5.6	9.5	9.7	
35-49 years	0.0	15.8	18.5	
50-64 years	0.0	30.5	41.2	
65-69 years	0.0	22.1	14.2	
70+ years	0.0	4.2	3.2	
Gender (%)				
Male	33.3	65.3	70.8	
Female	66.7	34.7	29.2	

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



Seattle Children's Hospital

Transplant Program (Organ): Heart TRANSPLANT Release Date: January 5, 2021

Based on Data Available: October 31, 2020

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### **C. Transplant Information**

RECIPIENTS

#### Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2019 and 06/30/2020

	Percentage in each category		
Characteristic	Center (N=18)	Region (N=95)	U.S. (N=3,519)
Blood Type (%)			
0	50.0	36.8	39.9
A	27.8	42.1	39.2
В	16.7	16.8	15.8
AB	5.6	4.2	5.1
Previous Transplant (%)			
Yes	0.0	4.2	3.3
No	100.0	95.8	96.7
Body Mass Index (%)			
0-20	77.8	15.8	17.1
21-25	16.7	24.2	27.3
26-30	5.6	30.5	30.4
31-35	0.0	22.1	19.1
36-40	0.0	7.4	5.0
41+	0.0	0.0	0.5
Unknown	0.0	0.0	0.7
Primary Disease (%)			
Cardiomyopathy	55.6	60.0	62.5
Coronary Artery Disease	0.0	23.2	24.8
Retransplant/Graft Failure	0.0	0.0	0.0
Valvular Heart Disease	0.0	2.1	1.1
Congenital Heart Disease	38.9	12.6	10.3
Other	5.6	2.1	1.2
Missing	0.0	0.0	0.2
Medical Urgency Status at Transplant (%)			
Status 1A	61.1	11.6	10.4
Status 1B	27.8	5.3	2.4
Status 2	5.6	1.1	0.7
Adult Status 1	0.0	4.2	7.4
Adult Status 2	0.0	18.9	40.4
Adult Status 3	0.0	24.2	15.7
Adult Status 4	5.6	27.4	18.5
Adult Status 5	0.0	1.1	1.0
Adult Status 6	0.0	6.3	3.6
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	33.3	50.5	33.0
Hospitalized	38.9	20.0	14.8
ICU	27.8	29.5	52.0
Unknown	0.0	0.0	0.2
Recipient Mechanical, Ventilated or Organ-Perfusion Supp			
No Support Mechanism	33.3	28.4	19.7
Devices*	27.8	52.6	63.6
Other Support Mechanism	38.9	18.9	16.6
Unknown	0.0	0.0	0.1

\* Devices include ventricular assist devices (VAD), extracorporeal membrane oxygenation (ECMO), intraaortic balloon pump (IABP), and total artificial heart (TAH).

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See User Guide for pandemic-related follow-up limits.



Seattle Children's Hospital

REGISTRY OFCenter Code: WACHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: January 5, 2021RECIPIENTSBased on Data Available: October 31, 2020

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## C. Transplant Information

# Table C3D. Deceased donor characteristicsTransplants performed between 07/01/2019 and 06/30/2020

	Percentage in each category		
Donor Characteristic	Center (N=18)	Region (N=95)	U.S. (N=3,519)
Cause of Death (%)			
Deceased: Stroke	16.7	11.6	13.6
Deceased: MVA	27.8	14.7	18.4
Deceased: Other	55.6	73.7	68.0
Ethnicity/Race (%)*			
White	44.4	67.4	61.7
African-American	5.6	4.2	16.5
Hispanic/Latino	27.8	15.8	18.5
Asian	11.1	3.2	2.0
Other	11.1	9.5	1.2
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	16.7	3.2	3.4
2-11 years	38.9	7.4	4.7
12-17	16.7	5.3	6.7
18-34	27.8	53.7	51.6
35-49 years	0.0	22.1	27.8
50-64 years	0.0	8.4	5.7
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	44.4	65.3	71.6
Female	55.6	34.7	28.4
Blood Type (%)			
0	55.6	49.5	51.9
A	22.2	36.8	35.1
В	16.7	12.6	11.3
AB	5.6	1.1	1.7
Unknown	0.0	0.0	0.0

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



Seattle Children's Hospital Center Code: WACH Transplant Program (Organ): Heart Release Date: January 5, 2021

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# **C. Transplant Information**

TRANSPLANT

RECIPIENTS

# Table C4D. Deceased donor transplant characteristicsTransplants performed between 07/01/2019 and 06/30/2020

	Percentage in each category		
Transplant Characteristic	Center (N=18)	Region (N=95)	U.S. (N=3,519)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	10.0	1.6	9.5
Deceased: 91-180 min	40.0	45.9	63.2
Deceased: 181-270 min	40.0	37.7	23.9
Deceased: 271-360 min	0.0	9.8	2.0
Deceased: 361+ min	10.0	4.9	0.7
Not Reported	0.0	0.0	0.8
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.0	0.3
Deceased: 91-180 min	0.0	8.8	16.6
Deceased: 181-270 min	0.0	44.1	67.8
Deceased: 271-360 min	75.0	35.3	12.1
Deceased: 361+ min	25.0	5.9	2.6
Not Reported	0.0	5.9	0.7
Procedure Type (%)			
Heart alone	94.4	92.6	91.8
Heart and another organ	5.6	7.4	8.2
Sharing (%)			
Local	55.6	64.2	26.2
Shared	44.4	35.8	73.8
Median Time in Hospital After Transplant*	19.0 Days	18.0 Days	17.0 Days

\* Multiple organ transplants are excluded from this statistic.



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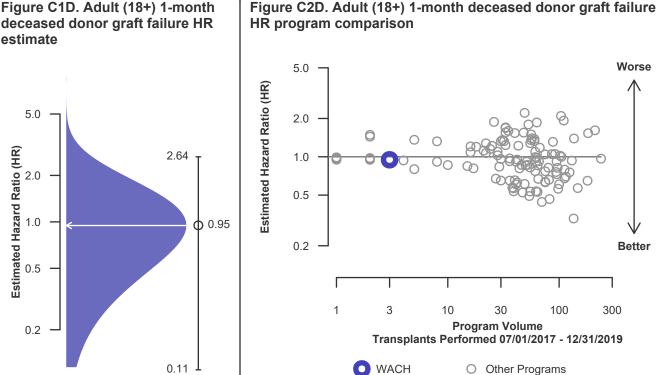
# C. Transplant Information

# Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graftSingle organ transplants performed between 07/01/2017 and 12/31/2019Deaths and retransplants are considered graft failures

	WACH	U.S.
Number of transplants evaluated	3	6,750
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.61%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.36%	
Number of observed graft failures (including deaths) during the first month after transplant	0	229
Number of expected graft failures (including deaths) during the first month after transplant	0.11	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.64]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





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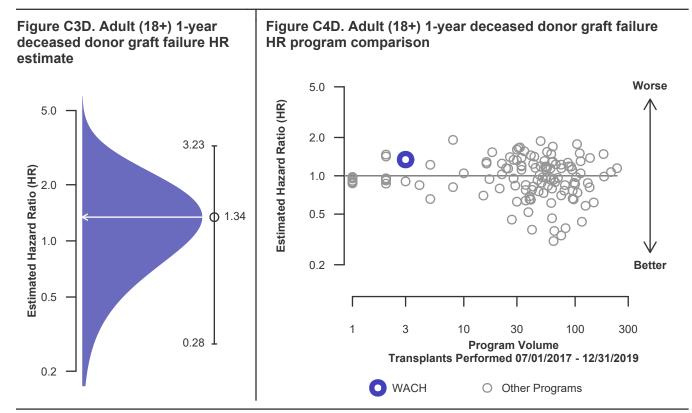
# **C. Transplant Information**

# Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graftSingle organ transplants performed between 07/01/2017 and 12/31/2019Deaths and retransplants are considered graft failures

	WACH	U.S.
Number of transplants evaluated	3	6,750
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	66.67%	91.32%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	90.46%	
Number of observed graft failures (including deaths) during the first year after transplant	1	551
Number of expected graft failures (including deaths) during the first year after transplant	0.24	
Estimated hazard ratio*	1.34	
95% credible interval for the hazard ratio**	[0.28, 3.23]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.28, 3.23], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 34% higher risk of graft failure compared to an average program, but WACH's performance could plausibly range from 72% reduced risk up to 223% increased risk.





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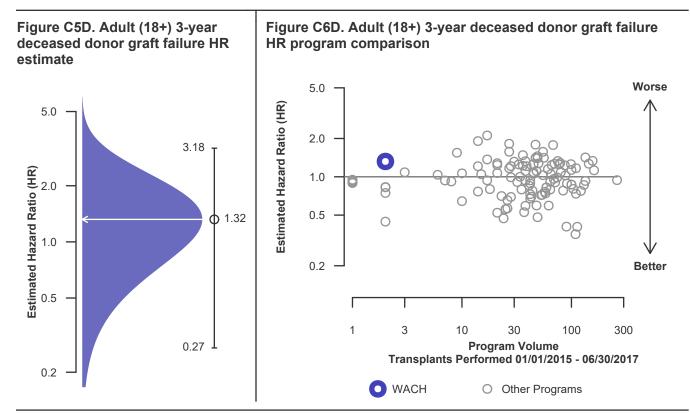
# **C. Transplant Information**

# Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graftSingle organ transplants performed between 01/01/2015 and 06/30/2017Deaths and retransplants are considered graft failures

	WACH	U.S.
Number of transplants evaluated	2	6,028
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	50.00%	85.47%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	79.44%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	873
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.27	
Estimated hazard ratio*	1.32	
95% credible interval for the hazard ratio**	[0.27, 3.18]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.27, 3.18], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 32% higher risk of graft failure compared to an average program, but WACH's performance could plausibly range from 73% reduced risk up to 218% increased risk.





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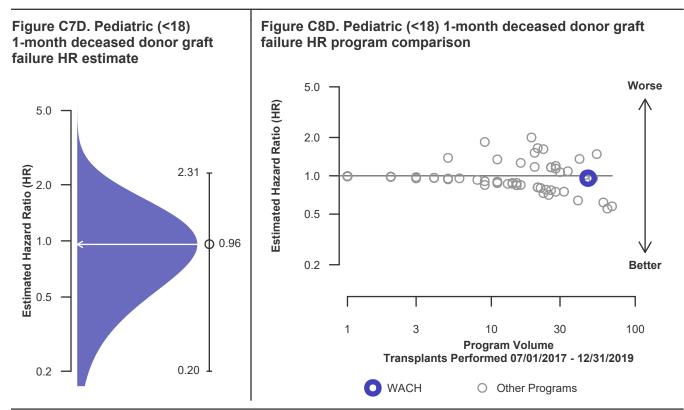
# **C. Transplant Information**

# Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2017 and 12/31/2019Deaths and retransplants are considered graft failures

	WACH	0.5.
Number of transplants evaluated	47	1,228
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	97.87%	97.64%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.59%	
Number of observed graft failures (including deaths) during the first month after transplant	1	29
Number of expected graft failures (including deaths) during the first month after transplant	1.13	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.20, 2.31]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.20, 2.31], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 4% lower risk of graft failure compared to an average program, but WACH's performance could plausibly range from 80% reduced risk up to 131% increased risk.





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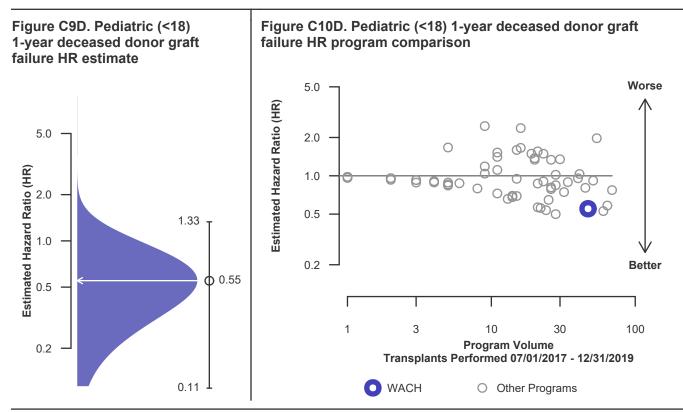
# **C. Transplant Information**

# Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2017 and 12/31/2019Deaths and retransplants are considered graft failures

	WACH	0.8.
Number of transplants evaluated	47	1,228
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	97.87%	92.32%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.08%	
Number of observed graft failures (including deaths) during the first year after transplant	1	87
Number of expected graft failures (including deaths) during the first year after transplant	3.45	
Estimated hazard ratio*	0.55	
95% credible interval for the hazard ratio**	[0.11, 1.33]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 1.33], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 45% lower risk of graft failure compared to an average program, but WACH's performance could plausibly range from 89% reduced risk up to 33% increased risk.





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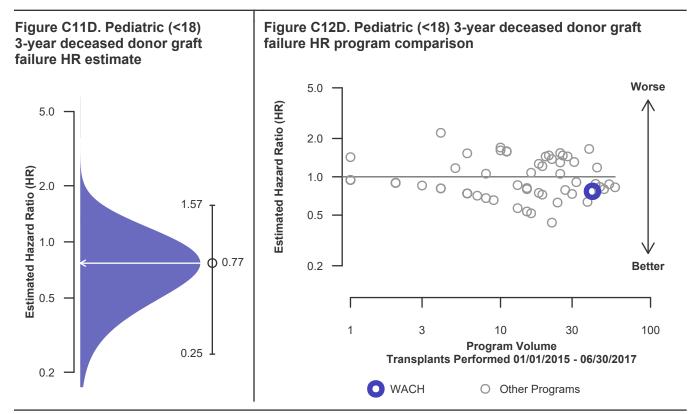
# **C. Transplant Information**

# Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2015 and 06/30/2017Deaths and retransplants are considered graft failures

	WACH	0.5.
Number of transplants evaluated	41	1,122
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	92.68%	88.90%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.91%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	124
Number of expected graft failures (including deaths) during the first 3 years after transplant	4.50	
Estimated hazard ratio*	0.77	
95% credible interval for the hazard ratio**	[0.25, 1.57]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.25, 1.57], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 23% lower risk of graft failure compared to an average program, but WACH's performance could plausibly range from 75% reduced risk up to 57% increased risk.





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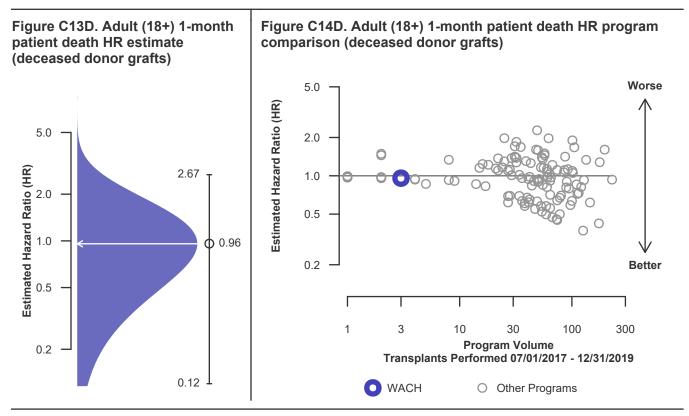
# **C. Transplant Information**

# Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

•	WACH	0.5.
Number of transplants evaluated	3	6,582
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.98%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.11%	
Number of observed deaths during the first month after transplant	0	199
Number of expected deaths during the first month after transplant	0.09	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.67], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but WACH's performance could plausibly range from 88% reduced risk up to 167% increased risk.





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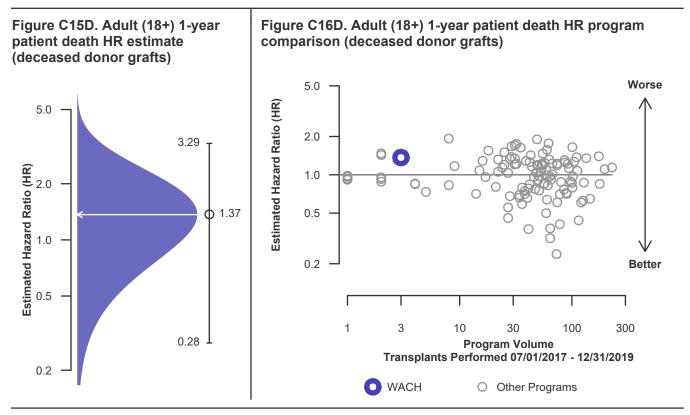
# **C. Transplant Information**

# Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)Single organ transplants performed between 07/01/2017 and 12/31/2019Retransplants excludedWACH

·	WACH	0.5.
Number of transplants evaluated	3	6,582
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	66.67%	91.67%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	91.87%	
Number of observed deaths during the first year after transplant	1	514
Number of expected deaths during the first year after transplant	0.20	
Estimated hazard ratio*	1.37	
95% credible interval for the hazard ratio**	[0.28, 3.29]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.28, 3.29], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 37% higher risk of patient death compared to an average program, but WACH's performance could plausibly range from 72% reduced risk up to 229% increased risk.





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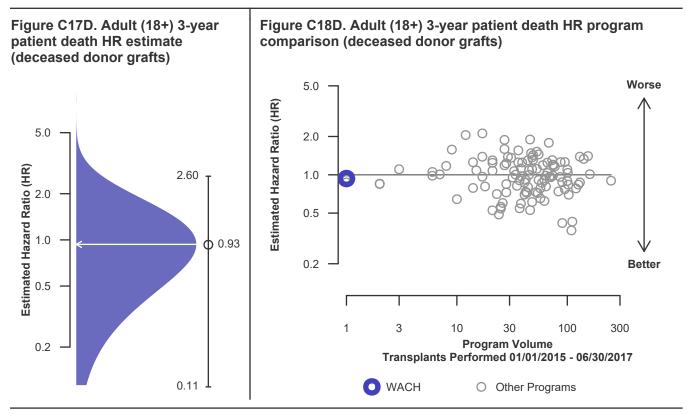
# C. Transplant Information

# Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2015 and 06/30/2017 Retransplants excluded WACH

	WACH	0.5.
Number of transplants evaluated	1	5,900
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	85.96%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	86.94%	
Number of observed deaths during the first 3 years after transplant	0	826
Number of expected deaths during the first 3 years after transplant	0.14	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.11, 2.60]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.60], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 7% lower risk of patient death compared to an average program, but WACH's performance could plausibly range from 89% reduced risk up to 160% increased risk.





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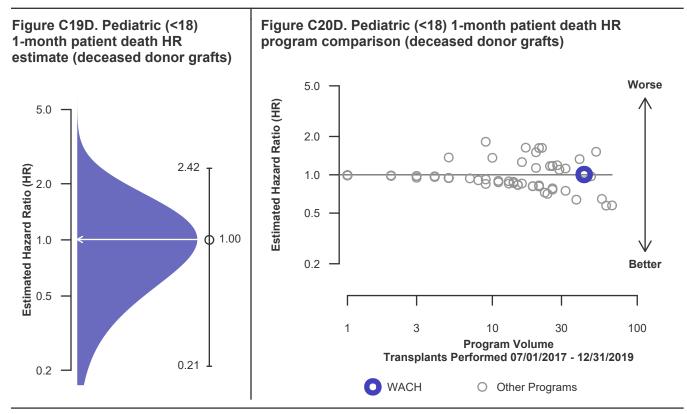
# **C. Transplant Information**

# Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</td> Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

·	WACH	0.5.
Number of transplants evaluated	43	1,176
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	97.67%	97.62%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.71%	
Number of observed deaths during the first month after transplant	1	28
Number of expected deaths during the first month after transplant	0.99	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.21, 2.42]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.21, 2.42], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 0% higher risk of patient death compared to an average program, but WACH's performance could plausibly range from 79% reduced risk up to 142% increased risk.





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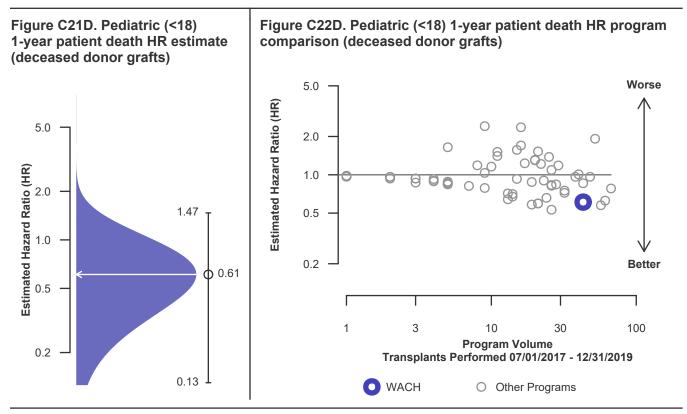
# C. Transplant Information

# Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</td> Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded WACH

	WACH	0.5.
Number of transplants evaluated	43	1,176
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.67%	92.47%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	92.65%	
Number of observed deaths during the first year after transplant	1	82
Number of expected deaths during the first year after transplant	2.92	
Estimated hazard ratio*	0.61	
95% credible interval for the hazard ratio**	[0.13, 1.47]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.13, 1.47], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 39% lower risk of patient death compared to an average program, but WACH's performance could plausibly range from 87% reduced risk up to 47% increased risk.





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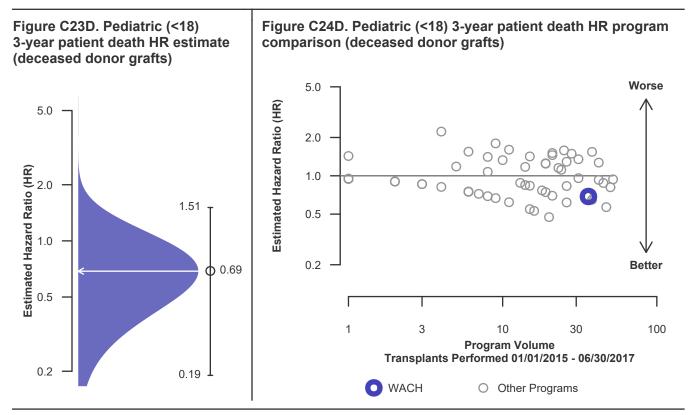
# **C. Transplant Information**

# Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)</td> Single organ transplants performed between 01/01/2015 and 06/30/2017 Retransplants excluded WACH

	WACH	0.3.
Number of transplants evaluated	36	1,066
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	94.44%	89.44%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	89.45%	
Number of observed deaths during the first 3 years after transplant	2	112
Number of expected deaths during the first 3 years after transplant	3.82	
Estimated hazard ratio*	0.69	
95% credible interval for the hazard ratio**	[0.19, 1.51]	

\* The hazard ratio provides an estimate of how Seattle Children's Hospital (WACH)'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 WACH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.19, 1.51], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 31% lower risk of patient death compared to an average program, but WACH's performance could plausibly range from 81% reduced risk up to 51% increased risk.





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## **C. Transplant Information**

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Table C17. Multi-organ transplant graft survival: 07/01/2017 - 12/31/2019

#### Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

#### Pediatric (<18) Transplants

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

# Table C18. Multi-organ transplant patient survival: 07/01/2017 - 12/31/2019Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

Pediatric (<18) Transplants

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