

REGISTRY OFCenter Code: WACHTRANSPLANTTransplant Program (Organ): Heart
Release Date: August 4, 2020RECIPIENTSBased on Data Available: May 31, 2020

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

User Guide

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 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 194.6 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 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 01/01/2014 and 06/30/2019. 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 12/31/2019 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-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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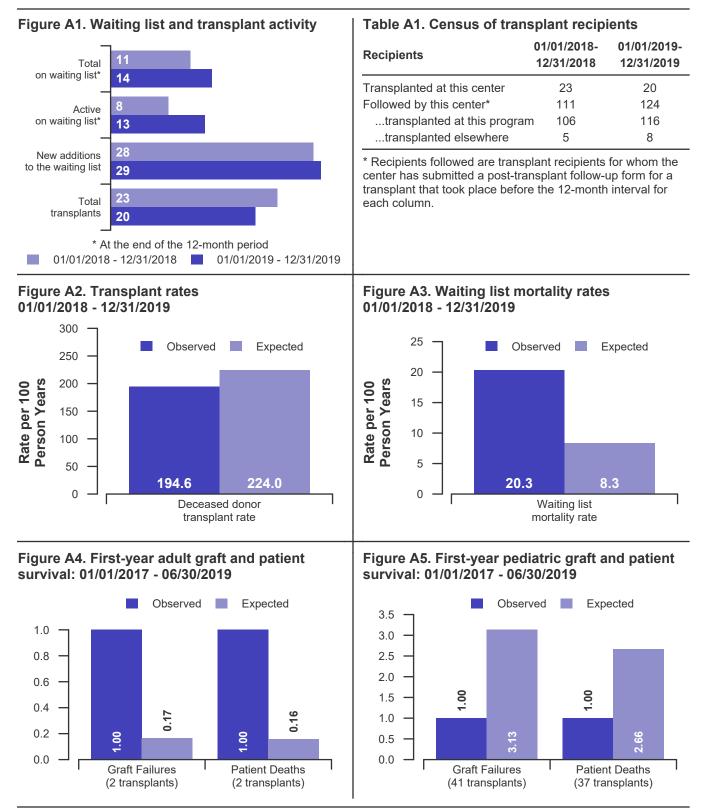


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A. Program Summary





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B. Waiting List Information

Table B1. Waiting list activity summary: 01/01/2018 - 12/31/2019

		ts for enter	Activity for 01/01/2019 to 12/31/20 as percent of registrants on waiting on 01/01/2019			
Waiting List Registrations	01/01/2018- 12/31/2018	01/01/2019- 12/31/2019	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	11	11	100.0	100.0	100.0	
New listings at this center	28	29	263.6	208.8	123.2	
Removals						
Transferred to another center	0	0	0.0	8.8	2.9	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	23	20	181.8	151.5	92.8	
Died	3	2	18.2	10.3	5.9	
Transplanted at another center	0	0	0.0	0.0	1.0	
Deteriorated	1	2	18.2	10.3	7.9	
Recovered	1	2	18.2	5.9	5.3	
Other reasons	0	0	0.0	5.9	9.2	
On waiting list at end of period	11	14	127.3	116.2	98.3	

* 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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B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidates Candidates registered on the waiting list between 01/01/2019 and 12/31/2019

Domographic Characteristic		ting List Regi 019 to 12/31/2			ng List Regis 12/31/2019 (
Demographic Characteristic	This Center (N=29)	OPTN Region (N=142)	U.S. (N=4,717)	This Center (N=14)	OPTN Region (N=79)	U.S. (N=3,762)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	69.0	76.8	59.0	42.9	74.7	58.7
African-American	10.3	9.9	24.9	14.3	11.4	27.6
Hispanic/Latino	3.4	2.1	11.5	14.3	2.5	10.4
Asian	0.0	5.6	3.6	7.1	6.3	2.3
Other	17.2	5.6	1.1	21.4	5.1	1.0
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	27.6	5.6	5.8	14.3	2.5	3.7
2-11 years	31.0	6.3	4.3	28.6	5.1	4.1
12-17 years	37.9	7.7	4.5	57.1	10.1	3.1
18-34 years	3.4	11.3	10.3	0.0	10.1	11.4
35-49 years	0.0	14.8	19.5	0.0	21.5	23.5
50-64 years	0.0	38.0	40.6	0.0	41.8	43.8
65-69 years	0.0	14.8	12.5	0.0	8.9	9.5
70+ years	0.0	1.4	2.5	0.0	0.0	1.0
Gender (%)						
Male	48.3	66.9	70.1	42.9	62.0	74.9
Female	51.7	33.1	29.9	57.1	38.0	25.1

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



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B. Waiting List Information

Table B3. Medical characteristics of waiting list candidatesCandidates registered on the waiting list between 01/01/2019 and 12/31/2019

Medical Characteristic	01/01/2	iting List Regis 019 to 12/31/20			ng List Regist 12/31/2019 (%	
	This Center (N=29)	OPTN Region (N=142)	U.S. (N=4,717)	This Center (N=14)	OPTN Region (N=79)	U.S. (N=3,762)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
0	58.6	38.7	43.7	78.6	60.8	58.1
A	24.1	41.5	37.0	0.0	25.3	28.9
В	6.9	12.7	14.7	14.3	12.7	11.1
AB	10.3	7.0	4.6	7.1	1.3	1.8
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	3.4	4.9	3.8	7.1	2.5	3.6
No	96.6	95.1	96.2	92.9	97.5	96.4
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Cardiomyopathy	51.7	59.2	58.8	21.4	59.5	57.7
Coronary Artery Disease	0.0	19.0	23.8	0.0	21.5	26.2
Retransplant/Graft Failure	3.4	2.8	3.4	7.1	2.5	3.0
Valvular Heart Disease	0.0	3.5	0.9	0.0	0.0	1.0
Congenital Heart Disease	44.8	14.1	11.6	71.4	16.5	11.2
Other	0.0	1.4	1.5	0.0	0.0	1.0
Missing	0.0	0.0	0.0	0.0	0.0	0.0
Medical Urgency Status at Listin						
Status 1A	41.4	8.5	8.6	0.0	0.0	7.5
Status 1B	24.1	4.9	3.2	21.4	12.7	19.9
Status 2	31.0	6.3	2.4	78.6	32.9	22.7
Adult Status 1	0.0	6.3	3.9	0.0	0.0	0.2
Adult Status 2	0.0	6.3	16.9	0.0	0.0	2.2
Adult Status 3	0.0	8.5	10.2	0.0	0.0	3.3
Adult Status 4	3.4	33.8	33.3	0.0	27.8	25.8
Adult Status 5	0.0	0.7	2.6	0.0	0.0	1.9
Adult Status 6	0.0	23.2	16.6	0.0	26.6	12.9
Temporarily Inactive	0.0	1.4	2.2	0.0	0.0	3.5



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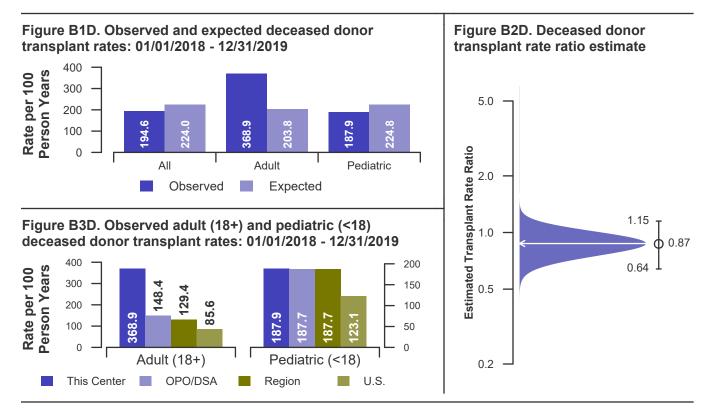
B. Waiting List Information

Table B4D. Deceased donor transplant rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	11	82	109	3,948
Person Years**	22.1	143.2	168.9	7,778.7
Removals for Transplant	43	221	231	6,960
Adult (18+) Candidates				
Count on waiting list at start*	1	72	99	3,566
Person Years**	0.8	121.9	147.6	6,969.0
Removals for transpant	3	181	191	5,963
Pediatric (<18) Candidates				
Count on waiting list at start*	10	10	10	382
Person Years**	21.3	21.3	21.3	809.7
Removals for transplant	40	40	40	997

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

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





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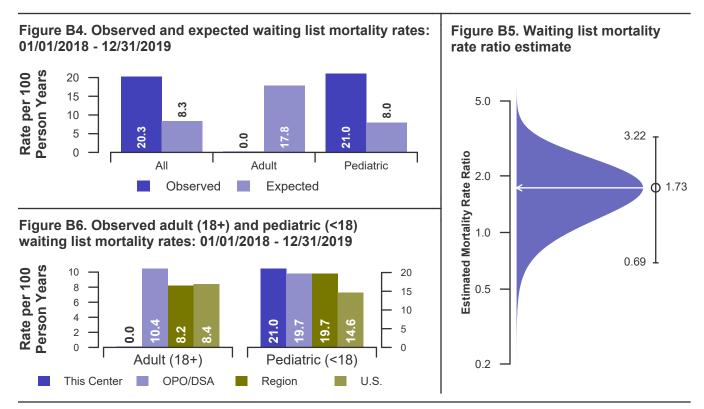
RECIPIENTS

Table B5. Waiting list mortality rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	11	82	109	3,948
Person Years**	24.6	169.2	208.5	8,995.5
Number of deaths	5	20	20	812
Adult (18+) Candidates				
Count on waiting list at start*	1	72	99	3,566
Person Years**	0.8	143.8	183.1	8,072.7
Number of deaths	0	15	15	677
Pediatric (<18) Candidates				
Count on waiting list at start*	10	10	10	382
Person Years**	23.8	25.4	25.4	922.8
Number of deaths	5	5	5	135

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

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





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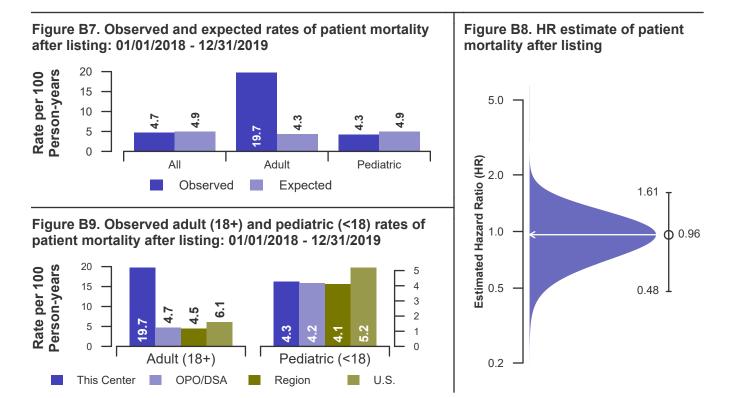
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Table B6. Rates of patient mortality after listing: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	146	682	831	26,368
Person-years*	193.1	931.3	1,158.9	35,813.9
Number of Deaths	9	43	51	2,130
Adult (18+) Patients				
Count at risk during the evaluation period	4	538	685	22,513
Person-years*	5.1	739.7	964.6	30,601.1
Number of Deaths	1	35	43	1,860
Pediatric (<18) Patients				
Count at risk during the evaluation period	142	144	146	3,855
Person-years*	188.0	191.6	194.3	5,212.8
Number of Deaths	8	8	8	270

* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2018, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 2019.

** 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 listingCandidates registered on waiting list between 07/01/2017 and 06/30/2018

Waiting list status (survival status)		Center (N Is Since L	,		U.S. (N=4,659) onths Since Listing			
	6	12	18	6	12	18		
Alive on waiting list (%)	23.1	11.5	3.8	40.5	25.4	17.6		
Died on the waiting list without transplant (%)	11.5	11.5	11.5	4.3	4.9	5.3		
Removed without transplant (%):								
Condition worsened (status unknown)	0.0	0.0	0.0	3.9	4.9	5.6		
Condition improved (status unknown)	0.0	3.8	3.8	1.0	2.2	3.0		
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.3	0.4		
Other	0.0	0.0	0.0	1.6	3.2	4.3		
Transplant (living or deceased donor) (%):								
Functioning (alive)	65.4	53.8	46.2	44.9	52.1	39.2		
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	0.1	0.1		
Died	0.0	7.7	7.7	2.3	3.8	5.2		
Status Yet Unknown*	0.0	11.5	26.9	0.6	1.9	17.9		
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.6	1.0	1.3		
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0		
 Total % known died on waiting list or after transplant	11.5	19.2	19.2	6.6	8.7	10.6		
Total % known died or removed as unstable	11.5	19.2	19.2	10.5	13.6	16.1		
Total % removed for transplant	65.4	73.1	80.8	48.0	58.1	62.6		
Total % with known functioning transplant (alive)	65.4	53.8	46.2	44.9	52.1	39.2		

* 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 01/01/2014 and 12/31/2016

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν			2 years	3 years	N				3 years
All	60	40.0	85.0	90.0	90.0	13,376	15.2	53.0	61.5	64.4
Ethnicity/Race*										
White	31	45.2	83.9	90.3	90.3	8,255	15.4	52.6	61.4	64.3
African-American	4	25.0	100.0	100.0	100.0	3,079	13.1	49.7	58.9	61.8
Hispanic/Latino	12	41.7	91.7	100.0	100.0	1,378	15.5	58.1	65.1	67.9
Asian	7	42.9	85.7	85.7	85.7	521	22.3	62.4	68.7	71.8
Other	6	16.7	66.7	66.7	66.7	143	18.9	60.8	65.0	65.7
Unknown	0					0				
Age										
<2 years	21	52.4	85.7	85.7	85.7	814	18.8	60.6	61.8	62.0
2-11 years	22	31.8	81.8	86.4	86.4	606	12.7	62.7	69.0	71.8
12-17 years	15	33.3	93.3	100.0	100.0	511	23.7	72.8	79.3	81.0
18-34 years	2	50.0	50.0	100.0	100.0	1,270	13.9	48.7	57.0	60.0
35-49 years	0					2,468	12.4	46.8	57.9	61.4
50-64 years	0					5,687	14.5	51.9	61.4	64.9
65-69 years	0					1,717	16.6	53.3	61.3	63.4
70+ years	0					303	28.4	66.0	67.3	67.7
Gender										
Male	32	40.6	93.8	96.9	96.9	9,543	14.0	51.7	61.1	64.3
Female	28	39.3	75.0	82.1	82.1	3,833	18.0	56.1	62.4	64.6

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



REGISTRY OFCenter Code: WACHTRANSPLANTTransplant Program (Organ): Heart
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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 01/01/2014 and 12/31/2016

Characteristic	ransplaı :er	nted at t	ime per		ince listing nited States					
	Ν	30 day	1 year	2 years	3 years	Ν	30 day	1 year	2 years	3 years
All	60	40.0	85.0	90.0	90.0	13,376	15.2	53.0	61.5	64.4
Blood Type										
0	31	32.3	83.9	90.3	90.3	5,976	9.7	44.2	54.0	57.5
A	18	44.4	88.9	88.9	88.9	4,851	18.1	58.8	66.4	69.2
В	8	62.5	87.5	100.0	100.0	1,902	18.7	59.1	67.4	69.3
AB	3	33.3	66.7	66.7	66.7	646	32.7	72.6	76.6	77.7
Previous Transplant										
Yes	6	66.7	100.0	100.0	100.0	556	13.1	46.9	52.0	54.7
No	54	37.0	83.3	88.9	88.9	12,820	15.2	53.2	61.9	64.8
Primary Disease										
Cardiomyopathy	17	35.3	100.0	100.0	100.0	7,530	15.6	54.6	63.8	66.6
Coronary Artery Disease	0					3,720	14.8	50.6	59.2	62.8
Retransplant/Graft Failure	6	66.7	100.0	100.0	100.0	475	12.8	46.9	52.2	54.9
Valvular Heart Disease	0					143	18.2	60.8	66.4	67.8
Congenital Heart Disease	36	38.9	77.8	86.1	86.1	1,318	14.3	52.9	59.0	61.1
Other	1	0.0	0.0	0.0	0.0	190	16.3	45.8	50.5	52.6
Missing	0					0				
Medical Urgency Status at Lis	sting									
Old Status 1	0					0				
Status 1A	36	47.2	86.1	86.1	86.1	4,196	28.9	67.2	70.7	71.9
Status 1B	14	35.7	100.0	100.0	100.0	5,233	12.2	54.1	64.6	67.7
Status 2	10	20.0	60.0	90.0	90.0	3,519	4.1	35.9	47.5	51.9
Unknown	0					428	7.7	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 01/01/2014 and 06/30/2019

		Months to T	ransplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.1	0.3	0.3	0.2
10th	0.3	0.4	0.5	0.5
25th	0.8	1.5	1.8	1.6
50th (median time to transplant)	2.5	4.8	5.6	7.6
75th	8.9	24.9	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 12/31/2019. 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
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B. Waiting List Information

Table B11. Offer Acceptance Practices: 01/01/2019 - 12/31/2019

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	35	408	408	46,403
Number of Acceptances	20	96	96	3,251
Expected Acceptances	7.1	58.0	58.0	3,249.5
Offer Acceptance Ratio*	2.42	1.63	1.63	1.00
95% Credible Interval**	[1.52, 3.53]			
PHS increased infectious risk				
Number of Offers	5	132	132	14,929
Number of Acceptances	1	26	26	1,019
Expected Acceptances	0.7	17.7	17.7	1,019.0
Offer Acceptance Ratio*	1.11	1.42	1.42	1.00
95% Credible Interval**	[0.23, 2.67]			
Ejection fraction < 60				
Number of Offers	13	108	108	16,902
Number of Acceptances	6	25	25	944
Expected Acceptances	1.7	15.0	15.0	946.1
Offer Acceptance Ratio*	2.18	1.59	1.59	1.00
95% Credible Interval**	[0.94, 3.94]			
Donor Age >= 40				
Number of Offers	0	169	169	19,974
Number of Acceptances	0	21	21	738
Expected Acceptances	0.0	11.4	11.4	746.2
Offer Acceptance Ratio*		1.72	1.72	0.99
95% Credible Interval**	[,]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	0	47	47	13,399
Number of Acceptances	0	0	0	186
Expected Acceptances	0.0	0.7	0.7	193.9
Offer Acceptance Ratio*		0.75	0.75	0.96
95% Credible Interval**	[,]			
Donor more than 500 miles away				
Number of Offers	17	216	216	15,513
Number of Acceptances	7	30	30	700
Expected Acceptances	2.0	13.8	13.8	702.7
Offer Acceptance Ratio*	2.24	2.02	2.02	1.00
95% Credible Interval**	[1.03, 3.93]			

* 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 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).

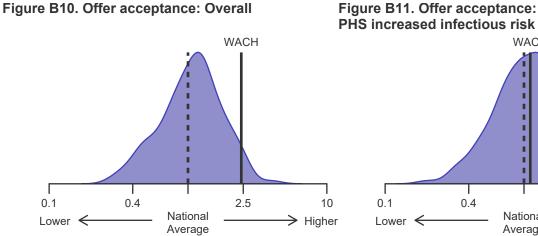
** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.52, 3.53], indicates the location of WACH's true offer acceptance ratio with 95% probability. The best estimate is 142% more likely to accept an offer compared to national acceptance behavior, but WACH's performance could plausibly range from 52% higher acceptance up to 253% higher acceptance.

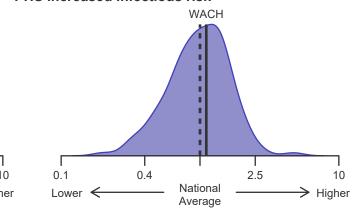


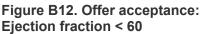
Center Code: WACH REGISTRY OF Transplant Program (Organ): Heart TRANSPLANT Release Date: August 4, 2020 RECIPIENTS Based on Data Available: May 31, 2020

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B. Waiting List Information







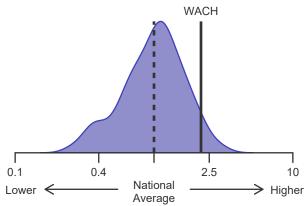
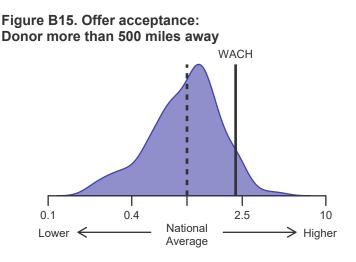


Figure B13. Offer acceptance: Donor age >= 40

This program received no offers.





This program received no offers.



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C. Transplant Information

TRANSPLANT

RECIPIENTS

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2019 and 12/31/2019

	Percei	Percentage in each category		
Characteristic	Center (N=20)	Region (N=103)	U.S. (N=3,552)	
Ethnicity/Race (%)*				
White	90.0	79.6	61.2	
African-American	0.0	7.8	22.5	
Hispanic/Latino	5.0	2.9	11.2	
Asian	0.0	6.8	3.9	
Other	5.0	2.9	1.1	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	35.0	6.8	4.8	
2-11 years	25.0	4.9	4.7	
12-17	35.0	6.8	4.8	
18-34	5.0	13.6	10.3	
35-49 years	0.0	18.4	18.0	
50-64 years	0.0	30.1	40.7	
65-69 years	0.0	16.5	13.6	
70+ years	0.0	2.9	3.1	
Gender (%)				
Male	45.0	68.0	69.5	
Female	55.0	32.0	30.5	

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



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C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2019 and 12/31/2019

	Percentage in each category		
Characteristic	Center (N=20)	Region (N=103)	U.S. (N=3,552)
Blood Type (%)			
0	45.0	35.9	39.4
A	40.0	42.7	39.9
В	10.0	13.6	15.3
AB	5.0	7.8	5.3
Previous Transplant (%)			
Yes	0.0	2.9	3.7
No	100.0	97.1	96.3
Body Mass Index (%)			
0-20	75.0	18.4	19.4
21-25	25.0	25.2	27.7
26-30	0.0	29.1	28.5
31-35	0.0	18.4	18.7
36-40	0.0	5.8	4.7
41+	0.0	0.0	0.4
Unknown	0.0	2.9	0.6
Primary Disease (%)			
Cardiomyopathy	65.0	57.3	61.4
Coronary Artery Disease	0.0	25.2	24.3
Retransplant/Graft Failure	0.0	0.0	0.0
Valvular Heart Disease	0.0	2.9	1.1
Congenital Heart Disease	35.0	11.7	11.6
Other	0.0	2.9	1.4
Missing	0.0	0.0	0.2
Medical Urgency Status at Transplant (%)			
Status 1A	75.0	14.6	11.6
Status 1B	20.0	3.9	2.5
Status 2	0.0	0.0	0.6
Adult Status 1	0.0	9.7	7.8
Adult Status 2	0.0	16.5	40.7
Adult Status 3	0.0	31.1	17.9
Adult Status 4	5.0	18.4	15.0
Adult Status 5	0.0	0.0	0.6
Adult Status 6	0.0	5.8	3.3
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	25.0	40.8	30.2
Hospitalized	45.0	25.2	16.5
ICU	30.0	31.1	53.0
Unknown	0.0	2.9	0.3
Recipient Mechanical, Ventilated or Organ-Perfusion Supp			
No Support Mechanism	20.0	19.4	19.0
Devices*	30.0	59.2	64.0
Other Support Mechanism	50.0	19.4	16.8
e	00.0	1.9	

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



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C. Transplant Information

Table C3D. Deceased donor characteristicsTransplants performed between 01/01/2019 and 12/31/2019

	Perce	Percentage in each category		
Donor Characteristic	Center (N=20)	Region (N=103)	U.S. (N=3,552)	
Cause of Death (%)				
Deceased: Stroke	5.0	6.8	14.1	
Deceased: MVA	30.0	17.5	19.2	
Deceased: Other	65.0	75.7	66.7	
Ethnicity/Race (%)*				
White	60.0	75.7	63.1	
African-American	0.0	2.9	16.4	
Hispanic/Latino	20.0	8.7	16.9	
Asian	5.0	3.9	2.1	
Other	15.0	8.7	1.5	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	25.0	4.9	3.8	
2-11 years	35.0	6.8	4.9	
12-17	15.0	6.8	7.2	
18-34	25.0	46.6	48.9	
35-49 years	0.0	25.2	28.3	
50-64 years	0.0	9.7	6.9	
65-69 years	0.0	0.0	0.0	
70+ years	0.0	0.0	0.0	
Gender (%)				
Male	60.0	70.9	70.0	
Female	40.0	29.1	30.0	
Blood Type (%)				
0	55.0	49.5	51.4	
A	35.0	37.9	36.1	
В	5.0	8.7	10.5	
AB	5.0	3.9	2.1	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

TRANSPLANT

Table C4D. Deceased donor transplant characteristics Transplants performed between 01/01/2019 and 12/31/2019

	Percer	Percentage in each category		
Transplant Characteristic	Center (N=20)	Region (N=103)	U.S. (N=3,552)	
Total Ischemic Time (Minutes): Local (%)				
Deceased: 0-90 min	21.4	5.5	7.7	
Deceased: 91-180 min	28.6	39.7	60.7	
Deceased: 181-270 min	42.9	38.4	27.7	
Deceased: 271-360 min	0.0	8.2	1.9	
Deceased: 361+ min	7.1	5.5	0.8	
Not Reported	0.0	2.7	1.2	
Total Ischemic Time (Minutes): Shared (%)				
Deceased: 0-90 min	0.0	0.0	0.4	
Deceased: 91-180 min	0.0	10.0	14.4	
Deceased: 181-270 min	0.0	33.3	69.5	
Deceased: 271-360 min	83.3	46.7	13.1	
Deceased: 361+ min	16.7	6.7	1.6	
Not Reported	0.0	3.3	1.0	
Procedure Type (%)				
Heart alone	100.0	94.2	92.4	
Heart and another organ	0.0	5.8	7.6	
Sharing (%)				
Local	70.0	70.9	30.4	
Shared	30.0	29.1	69.6	
Median Time in Hospital After Transplant*	19.0 Days	17.0 Days	17.0 Days	

* Multiple organ transplants are excluded from this statistic.



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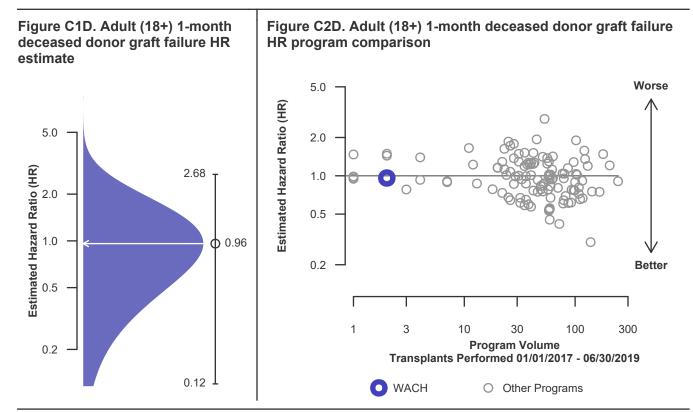
C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graftSingle organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

	WACH	0.5.
Number of transplants evaluated	2	6,645
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.43%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	95.96%	
Number of observed graft failures (including deaths) during the first month after transplant	0	237
Number of expected graft failures (including deaths) during the first month after transplant	0.08	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.68]	

* 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, [0.12, 2.68], 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 88% reduced risk up to 168% increased risk.





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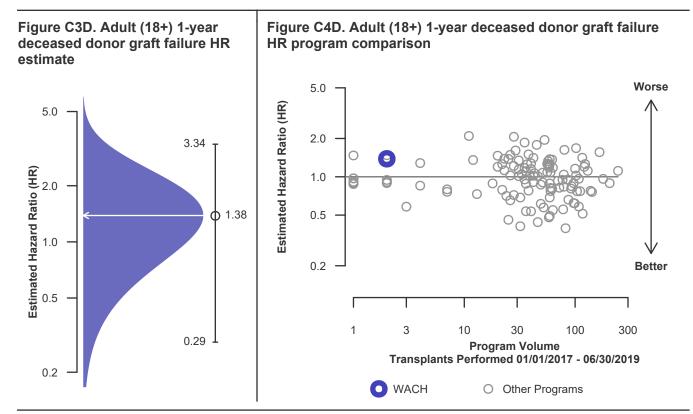
C. Transplant Information

Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graftSingle organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

	WACH	0.8.
Number of transplants evaluated	2	6,645
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	50.00%	91.37%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	90.02%	
Number of observed graft failures (including deaths) during the first year after transplant	1	550
Number of expected graft failures (including deaths) during the first year after transplant	0.17	
Estimated hazard ratio*	1.38	
95% credible interval for the hazard ratio**	[0.29, 3.34]	

* 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, [0.29, 3.34], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 38% higher risk of graft failure compared to an average program, but WACH's performance could plausibly range from 71% reduced risk up to 234% increased risk.





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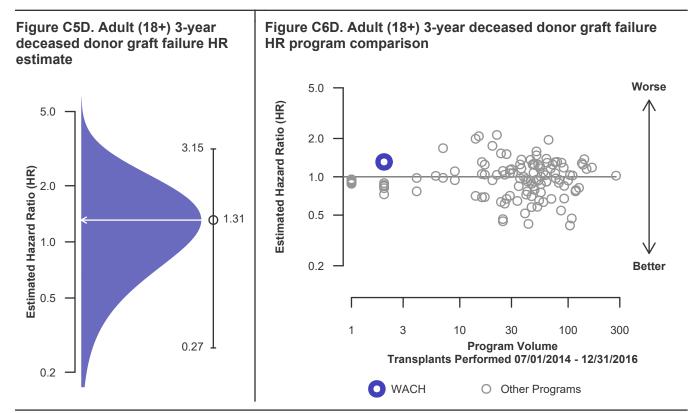
C. Transplant Information

Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graftSingle organ transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failures

	WACH	U.S.
Number of transplants evaluated	2	5,856
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	50.00%	85.16%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	78.57%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	869
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.29	
Estimated hazard ratio*	1.31	
95% credible interval for the hazard ratio**	[0.27, 3.15]	

* 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, 3.15], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 31% higher risk of graft failure compared to an average program, but WACH's performance could plausibly range from 73% reduced risk up to 215% increased risk.





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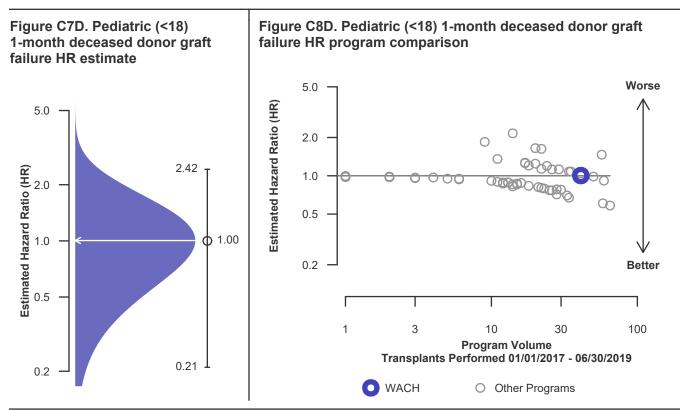
C. Transplant Information

Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

	WACH	0.5.
Number of transplants evaluated	41	1,178
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	97.56%	97.71%
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	27
Number of expected graft failures (including 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 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, [0.21, 2.42], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 0% higher risk of graft failure 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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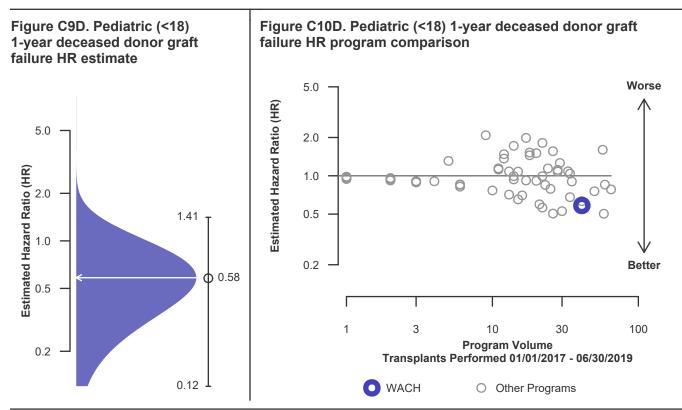
C. Transplant Information

Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

	WACH	U.S.
Number of transplants evaluated	41	1,178
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	97.56%	92.64%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.22%	
Number of observed graft failures (including deaths) during the first year after transplant	1	82
Number of expected graft failures (including deaths) during the first year after transplant	3.13	
Estimated hazard ratio*	0.58	
95% credible interval for the hazard ratio**	[0.12, 1.41]	

* 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, [0.12, 1.41], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 42% lower risk of graft failure compared to an average program, but WACH's performance could plausibly range from 88% reduced risk up to 41% increased risk.





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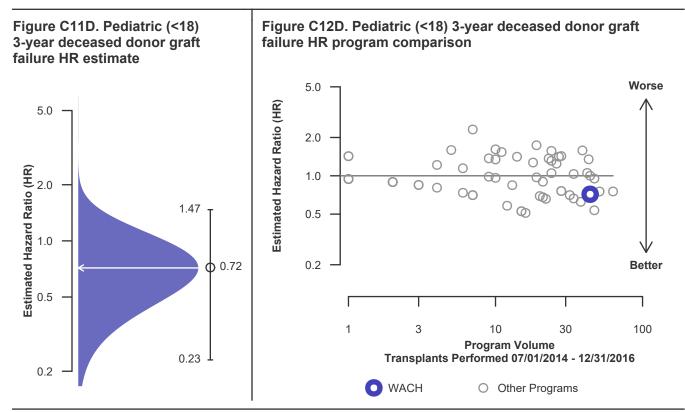
C. Transplant Information

Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failures

	WACH	0.5.
Number of transplants evaluated	44	1,142
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	93.18%	88.70%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.71%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	129
Number of expected graft failures (including deaths) during the first 3 years after transplant	4.98	
Estimated hazard ratio*	0.72	
95% credible interval for the hazard ratio**	[0.23, 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 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, [0.23, 1.47], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 28% lower risk of graft failure compared to an average program, but WACH's performance could plausibly range from 77% reduced risk up to 47% increased risk.





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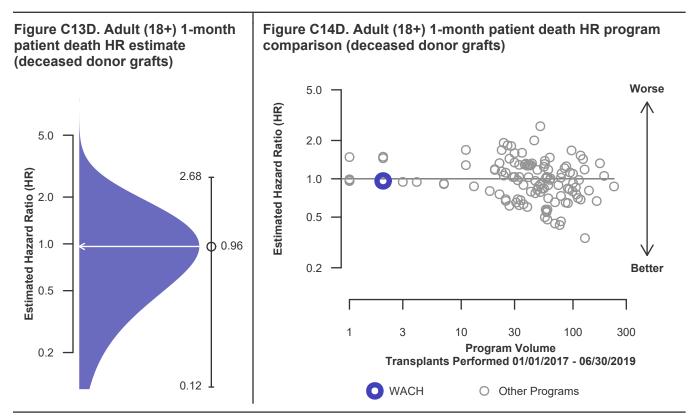
C. Transplant Information

Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded WACH

-	WACH	0.5.
Number of transplants evaluated	2	6,474
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.76%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	96.18%	
Number of observed deaths during the first month after transplant	0	210
Number of expected deaths during the first month after transplant	0.08	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.68]	

* 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, 2.68], 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 168% increased risk.





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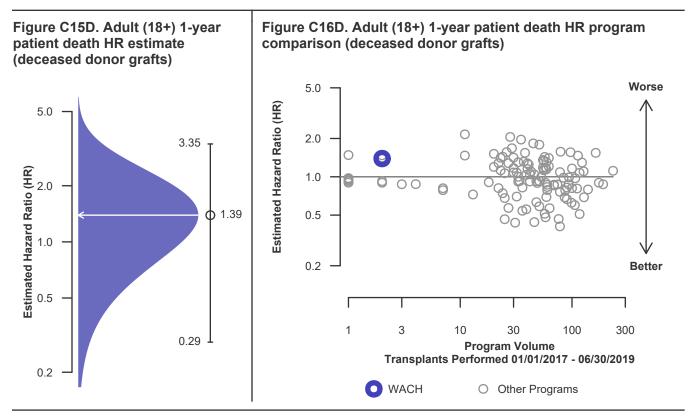
C. Transplant Information

Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excludedWACH

•	WACH	0.5.
Number of transplants evaluated	2	6,474
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	50.00%	91.68%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	90.07%	
Number of observed deaths during the first year after transplant	1	516
Number of expected deaths during the first year after transplant	0.16	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.29, 3.35]	

* 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, [0.29, 3.35], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 39% higher risk of patient death compared to an average program, but WACH's performance could plausibly range from 71% reduced risk up to 235% increased risk.





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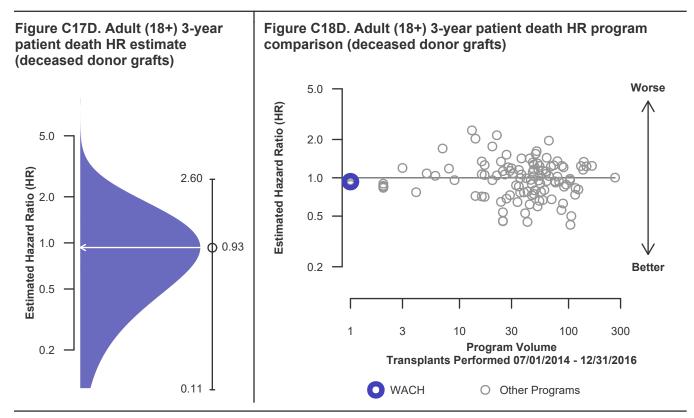
C. Transplant Information

Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients)Single organ transplants performed between 07/01/2014 and 12/31/2016Retransplants excludedWACH

	WACH	0.8.
Number of transplants evaluated	1	5,740
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	85.64%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	86.53%	
Number of observed deaths during the first 3 years after transplant	0	824
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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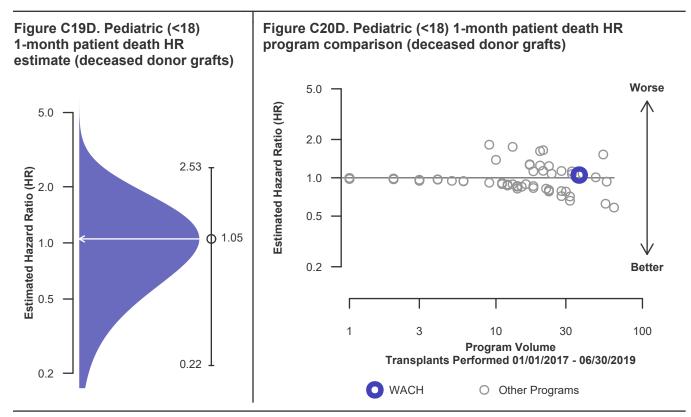
C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</td> Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

-	WACH	0.5.
Number of transplants evaluated	37	1,134
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	97.30%	97.71%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.69%	
Number of observed deaths during the first month after transplant	1	26
Number of expected deaths during the first month after transplant	0.86	
Estimated hazard ratio*	1.05	
95% credible interval for the hazard ratio**	[0.22, 2.53]	

* 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, [0.22, 2.53], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 5% higher risk of patient death compared to an average program, but WACH's performance could plausibly range from 78% reduced risk up to 153% increased risk.



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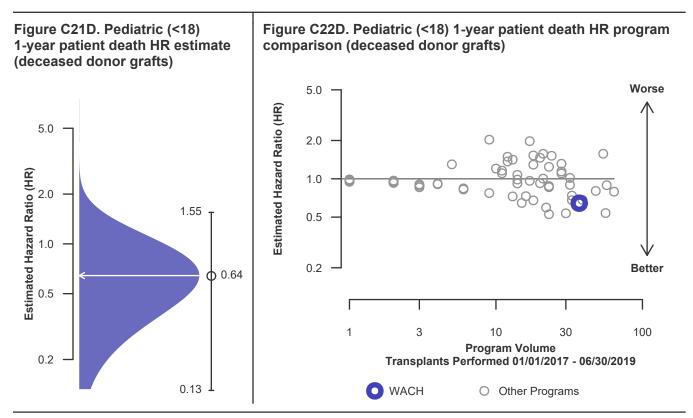
C. Transplant Information

Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</td> Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded WACH

	WACH	0.5.
Number of transplants evaluated	37	1,134
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.30%	92.86%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	92.71%	
Number of observed deaths during the first year after transplant	1	77
Number of expected deaths during the first year after transplant	2.66	
Estimated hazard ratio*	0.64	
95% credible interval for the hazard ratio**	[0.13, 1.55]	

* 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, 1.55], indicates the location of WACH's true hazard ratio with 95% probability. The best estimate is 36% lower risk of patient death compared to an average program, but WACH's performance could plausibly range from 87% reduced risk up to 55% increased risk.





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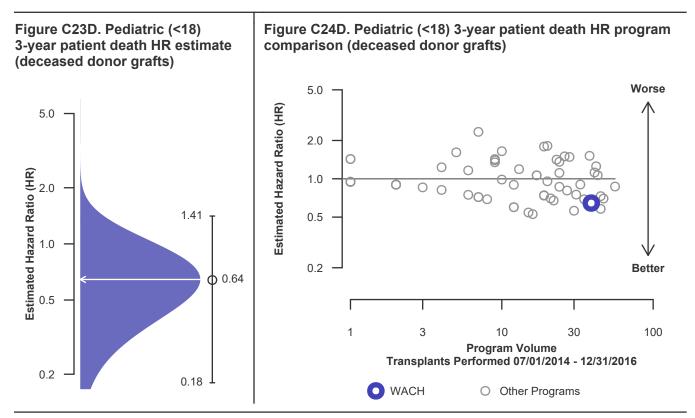
C. Transplant Information

Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)</td> Single organ transplants performed between 07/01/2014 and 12/31/2016 Retransplants excluded WACH

	WACH	0.5.
Number of transplants evaluated	39	1,075
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	94.87%	89.40%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	89.40%	
Number of observed deaths during the first 3 years after transplant	2	114
Number of expected deaths during the first 3 years after transplant	4.21	
Estimated hazard ratio*	0.64	
95% credible interval for the hazard ratio**	[0.18, 1.41]	

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





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C. Transplant Information

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Table C17. Multi-organ transplant graft survival: 01/01/2017 - 06/30/2019

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: 01/01/2017 - 06/30/2019Adult (18+) Transplants

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

Pediatric (<18) Transplants

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