

SCIENTIFIC REGISTRY OF

**Johns Hopkins Hospital** Center Code: MDJH Transplant Program (Organ): Heart TRANSPLANT Release Date: January 5, 2023 RECIPIENTS Based on Data Available: October 31, 2022

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#### COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

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

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

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

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 7/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2021, follow-up through 6/30/2022.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2017-6/30/2019; follow-up through 3/12/2020.

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

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 COVID-19 Guide for pandemic-related follow-up limits.



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Days after listing (and before transplant) between 7/1/2020 and 6/30/2022.

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

Candidates on the waitlist 7/1/2020-6/30/2022.

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

Evaluation period: 7/1/2020-6/30/2022.

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

Offers received 1/1/2021-12/31/2021.

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

As with the July 2022 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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### User Guide

This report contains a wide range of useful information about the heart transplant program at Johns Hopkins Hospital. 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 59.7 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2016 and 12/31/2021. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.3 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2022 to calculate a particular percentile of transplant times.

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

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 COVID-19 Guide for pandemic-related follow-up limits.



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

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

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

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

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



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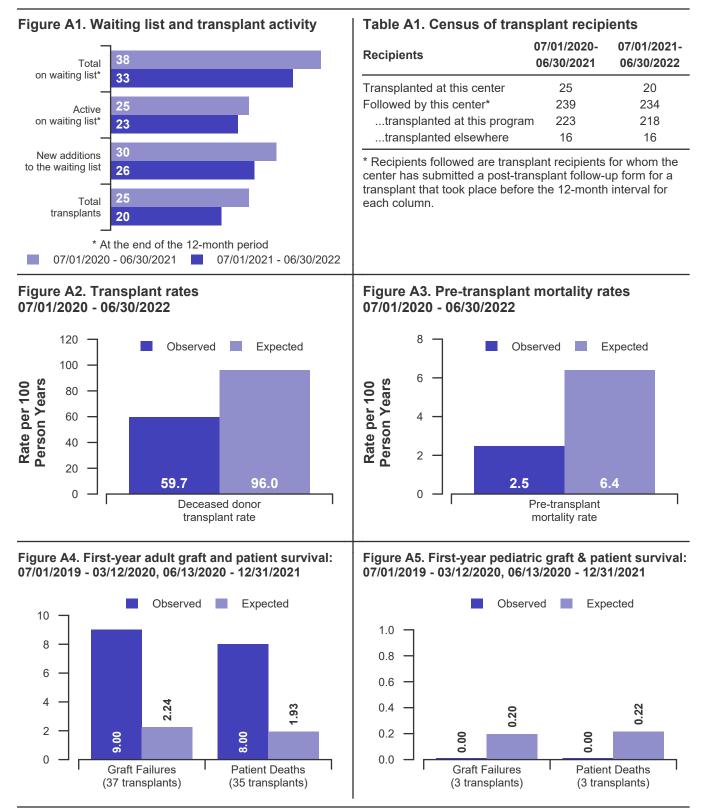
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### A. Program Summary





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

#### Table B1. Waiting list activity summary: 07/01/2020 - 06/30/2022

		ts for enter	as percent of	for 07/01/2021 to 06/30/2022 t of registrants on waiting lis on 07/01/2021			
Waiting List Registrations	07/01/2020- 06/30/2021	07/01/2021- 06/30/2022	This Center (%)	OPTN Region (%)	U.S. (%)		
On waiting list at start Additions	41	38	100.0	100.0	100.0		
New listings at this center	30	26	68.4	115.8	133.8		
Removals							
Transferred to another center	2	4	10.5	2.8	2.2		
Received living donor transplant*	0	0	0.0	0.0	0.0		
Received deceased donor transplant*	25	20	52.6	91.8	105.0		
Died	1	0	0.0	4.5	6.5		
Transplanted at another center	0	0	0.0	0.3	0.9		
Deteriorated	1	4	10.5	7.3	6.6		
Recovered	2	1	2.6	8.2	6.7		
Other reasons	2	2	5.3	9.9	10.5		
On waiting list at end of period	38	33	86.8	91.0	95.4		

\* 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 candidatesCandidates registered on the waiting list between 07/01/2021 and 06/30/2022

Domographic Chorostaristic		iting List Reg 021 to 06/30/2			ing List Regis n 06/30/2022 ('	
Demographic Characteristic	This Center (N=26)	OPTN Region (N=410)	U.S. (N=4,858)	This Center (N=33)	OPTN Region (N=322)	U.S. (N=3,465)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	46.2	50.7	56.6	45.5	45.7	55.8
African-American	38.5	35.6	25.1	39.4	41.0	28.2
Hispanic/Latino	3.8	9.5	12.8	6.1	8.4	11.7
Asian	7.7	3.4	4.4	6.1	3.4	3.1
Other	3.8	0.7	1.2	3.0	1.6	1.2
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	11.5	2.9	5.1	6.1	0.6	4.1
2-11 years	3.8	4.1	4.6	6.1	5.3	5.9
12-17 years	0.0	5.1	4.6	3.0	3.4	4.0
18-34 years	19.2	8.0	9.7	3.0	8.7	10.2
35-49 years	30.8	20.2	17.3	21.2	25.5	22.0
50-64 years	34.6	43.9	41.2	57.6	45.3	42.2
65-69 years	0.0	12.7	14.4	3.0	9.6	10.7
70+ years	0.0	2.9	3.1	0.0	1.6	0.9
Gender (%)						
Male	61.5	76.3	70.8	60.6	80.1	74.8
Female	38.5	23.7	29.2	39.4	19.9	25.2

\* 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%.



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

## Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2021 and 06/30/2022

Medical Characteristic	07/01/2	ting List Regis 021 to 06/30/20		on	ng List Regist 06/30/2022 (%	
	This Center (N=26)	OPTN Region (N=410)	U.S. (N=4,858)	This Center (N=33)	OPTN Region (N=322)	U.S. (N=3,465)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
0	38.5	44.1	44.7	51.5	61.5	60.7
A	46.2	35.4	36.7	24.2	24.8	27.2
В	11.5	14.1	14.7	24.2	12.7	10.5
AB	3.8	6.3	4.0	0.0	0.9	1.5
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	3.8	2.2	4.0	0.0	3.7	4.0
No	96.2	97.8	96.0	100.0	96.3	96.0
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Cardiomyopathy	69.2	65.1	58.4	72.7	64.3	56.2
Coronary Artery Disease	11.5	20.2	23.1	12.1	20.2	24.2
Retransplant/Graft Failure	3.8	2.2	3.4	0.0	2.8	3.2
Valvular Heart Disease	3.8	1.2	1.0	3.0	0.9	0.8
Congenital Heart Disease	11.5	10.2	11.5	12.1	11.5	13.4
Other	0.0	1.0	2.6	0.0	0.3	2.1
Missing	0.0	0.0	0.0	0.0	0.0	0.0
Medical Urgency Status at Listin						
Status 1A	7.7	6.1	8.6	3.0	2.2	5.3
Status 1B	3.8	4.1	2.8	12.1	8.1	7.9
Status 2	3.8	2.0	2.7	33.3	10.9	11.8
Adult Status 1	3.8	4.4	4.7	0.0	0.6	0.5
Adult Status 2	46.2	25.4	24.4	3.0	3.4	4.6
Adult Status 3	0.0	3.7	8.6	0.0	1.9	4.1
Adult Status 4	11.5	36.8	29.9	6.1	43.5	38.5
Adult Status 5	0.0	0.7	2.7	0.0	2.2	3.6
Adult Status 6	23.1	16.1	14.1	39.4	25.2	21.3
Temporarily Inactive	0.0	0.7	1.4	3.0	2.2	2.4



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

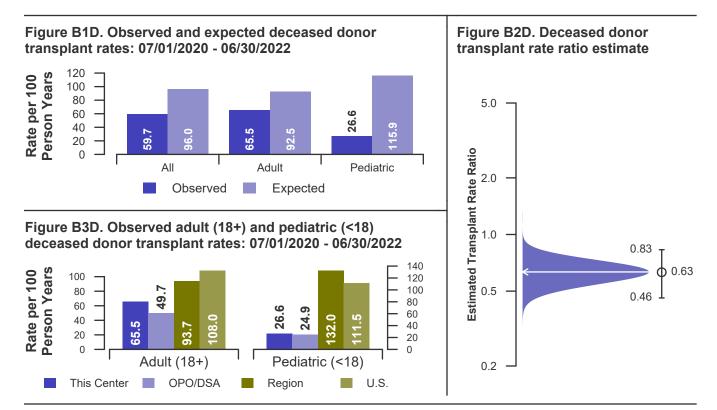
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#### Table B4D. Deceased donor transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	41	87	357	3,514
Person Years**	75.4	175.0	680.3	7,056.5
Removals for Transplant	45	84	658	7,652
Adult (18+) Candidates				
Count on waiting list at start*	35	79	327	3,079
Person Years**	64.1	162.9	627.2	6,159.0
Removals for transpant	42	81	588	6,651
Pediatric (<18) Candidates				
Count on waiting list at start*	6	8	30	435
Person Years**	11.3	12.1	53.0	897.5
Removals for transplant	3	3	70	1,001

\* 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 June 30.





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

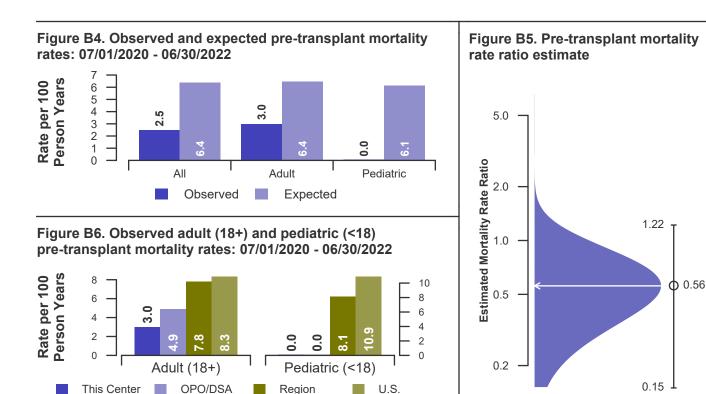
RECIPIENTS

#### Table B5. Pre-transplant mortality rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	41	87	357	3,514
Person Years**	80.9	198.3	794.7	8,037.2
Number of deaths	2	9	62	693
Adult (18+) Candidates				
Count on waiting list at start*	35	79	327	3,079
Person Years**	67.1	183.3	732.9	7,033.8
Number of deaths	2	9	57	584
Pediatric (<18) Candidates				
Count on waiting list at start*	6	8	30	435
Person Years**	13.9	15.0	61.8	1,003.4
Number of deaths	0	0	5	109

\* 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 June 30.





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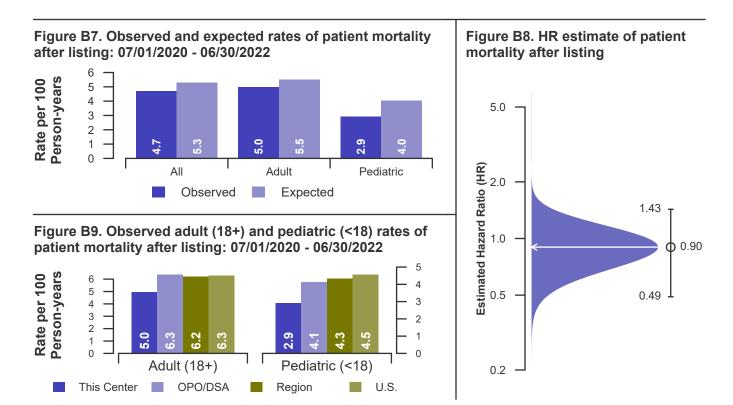
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#### Table B6. Rates of patient mortality after listing: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	194	437	2,678	28,175
Person-years*	256.1	584.2	3,625.0	38,163.1
Number of Deaths	12	36	218	2,306
Adult (18+) Patients				
Count at risk during the evaluation period	166	400	2,398	24,127
Person-years*	221.7	535.7	3,255.0	32,646.6
Number of Deaths	11	34	202	2,055
Pediatric (<18) Patients				
Count at risk during the evaluation period	28	37	280	4,048
Person-years*	34.4	48.5	370.0	5,516.5
Number of Deaths	1	2	16	251

\* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2020, or from the date of first wait listing until death, reaching 5 years after listing or June 30, 2022.

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





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

## Table B7. Waiting list candidate status after listingCandidates registered on waiting list between 01/01/2020 and 12/31/2020

Waiting list status (survival status)		Center (N Is Since L	,		U.S. (N=4,594) hths Since Listing			
	6	12	18	6	12	18		
Alive on waiting list (%)	32.0	24.0	20.0	30.2	19.8	14.3		
Died on the waiting list without transplant (%)	4.0	4.0	4.0	3.1	3.7	4.0		
Removed without transplant (%):								
Condition worsened (status unknown)	4.0	8.0	8.0	3.2	4.0	4.4		
Condition improved (status unknown)	0.0	0.0	0.0	0.6	1.5	2.4		
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.2	0.2		
Other	0.0	0.0	0.0	1.8	2.6	3.5		
Transplant (living or deceased donor) (%):								
Functioning (alive)	56.0	52.0	40.0	56.7	58.4	39.1		
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.2	0.2	0.3		
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0		
Died	4.0	8.0	8.0	3.3	5.2	6.7		
Status Yet Unknown*	0.0	4.0	20.0	0.3	3.7	24.2		
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.7	0.8		
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0		
 Total % known died on waiting list or after transplant	8.0	12.0	12.0	6.4	8.9	10.7		
Total % known died or removed as unstable	12.0	20.0	20.0	9.6	12.9	15.1		
Total % removed for transplant	60.0	64.0	68.0	60.6	67.6	70.3		
Total % with known functioning transplant (alive)	56.0	52.0	40.0	56.7	58.4	39.1		

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



Johns Hopkins Hospital

REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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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 07/01/2016 and 06/30/2019

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν			2 years	3 years	N				3 years
All	99	18.2	56.6	61.6	65.7	14,016	20.8	58.2	65.1	67.6
Ethnicity/Race*										
White	51	17.6	58.8	60.8	62.7	8,635	21.1	58.7	65.8	68.3
African-American	36	11.1	50.0	58.3	66.7	3,219	18.9	54.4	61.4	63.7
Hispanic/Latino	7	57.1	71.4	71.4	71.4	1,456	20.5	60.4	67.1	69.6
Asian	5	20.0	60.0	80.0	80.0	538	30.9	67.7	73.2	74.7
Other	0					168	16.1	57.7	61.3	64.9
Unknown	0					0				
Age										
<2 years	3	33.3	66.7	66.7	66.7	852	13.7	59.9	60.7	60.8
2-11 years	8	0.0	62.5	62.5	62.5	606	12.5	61.6	69.3	71.0
12-17 years	5	40.0	80.0	80.0	80.0	577	32.6	73.5	79.9	81.8
18-34 years	8	37.5	75.0	87.5	87.5	1,347	22.1	56.4	62.1	65.3
35-49 years	31	19.4	58.1	58.1	67.7	2,589	18.3	53.8	61.7	64.7
50-64 years	39	15.4	46.2	53.8	56.4	5,831	20.2	56.6	64.7	67.5
65-69 years	5	0.0	60.0	80.0	80.0	1,849	25.3	61.3	68.0	69.9
70+ years	0					365	33.4	72.1	73.4	74.0
Gender										
Male	63	12.7	50.8	58.7	63.5	9,873	20.0	56.4	64.0	66.7
Female	36	27.8	66.7	66.7	69.4	4,143	22.9	62.5	67.9	69.7

\* 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 07/01/2016 and 06/30/2019

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν		1 year		3 years	Ν	30 day	1 year	2 years	3 years
All	99	18.2	56.6	61.6	65.7	14,016	20.8	58.2	65.1	67.6
Blood Type										
0	45	17.8	44.4	48.9	55.6	6,238	13.9	48.8	56.4	59.6
A	42	19.0	69.0	76.2	78.6	5,158	24.9	64.5	71.3	73.2
В	12	16.7	58.3	58.3	58.3	2,003	25.9	64.8	71.1	73.4
AB	0					617	39.9	78.6	82.5	82.7
Previous Transplant										
Yes	1	0.0	100.0	100.0	100.0	576	17.5	52.1	56.6	58.5
No	98	18.4	56.1	61.2	65.3	13,440	21.0	58.4	65.5	68.0
Primary Disease										
Cardiomyopathy	80	21.2	53.8	58.8	62.5	8,031	22.6	60.4	67.3	69.6
Coronary Artery Disease	10	0.0	60.0	70.0	80.0	3,599	20.3	55.0	63.0	66.2
Retransplant/Graft Failure	1	0.0	100.0	100.0	100.0	497	17.3	53.5	58.1	60.4
Valvular Heart Disease	0					132	15.9	53.0	59.1	62.1
Congenital Heart Disease	7	14.3	71.4	71.4	71.4	1,536	13.9	57.3	63.2	64.9
Other	1	0.0	100.0	100.0	100.0	221	22.2	49.8	52.9	55.2
Missing	0					0				
Medical Urgency Status at Li	sting									
Status 1A	20	30.0	75.0	75.0	75.0	3,633	32.5	70.9	73.4	74.2
Status 1B	17	0.0	41.2	41.2	52.9	4,484	15.5	58.9	66.9	69.4
Status 2	38	5.3	42.1	55.3	60.5	2,708	4.8	40.0	51.4	55.5
Unknown	3	0.0	33.3	33.3	33.3	455	8.1	38.7	46.6	50.1



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

## Table B10. Time to transplant for waiting list candidates\*Candidates registered on the waiting list between 07/01/2016 and 12/31/2021

		Months to 1	Fransplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.3	0.3	0.2	0.2
10th	0.4	0.4	0.3	0.3
25th	1.0	1.3	1.0	0.8
50th (median time to transplant)	4.9	8.6	5.1	4.4
75th	Not Observed	Not Observed	Not Observed	Not Observed

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

\*\* Censored on 06/30/2022. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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

RECIPIENTS

#### Table B11. Offer Acceptance Practices: 07/01/2021 - 06/30/2022

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	1,398	2,182	9,183	60,356
Number of Acceptances	17	38	296	3,338
Expected Acceptances	70.2	91.8	401.1	3,335.3
Offer Acceptance Ratio*	0.26	0.43	0.74	1.00
95% Credible Interval**	[0.16, 0.39]			
PHS increased infectious risk				
Number of Offers	437	649	2,582	15,775
Number of Acceptances	4	14	75	755
Expected Acceptances	19.5	25.6	102.1	757.5
Offer Acceptance Ratio*	0.28	0.58	0.74	1.00
95% Credible Interval**	[0.10, 0.54]			
Ejection fraction < 60				
Number of Offers	496	772	3,226	19,852
Number of Acceptances	2	10	95	961
Expected Acceptances	22.0	30.4	129.7	950.4
Offer Acceptance Ratio*	0.17	0.37	0.74	1.01
95% Credible Interval**	[0.05, 0.37]			
Donor Age >= 40				
Number of Offers	572	1,058	4,236	26,961
Number of Acceptances	0	10	85	732
Expected Acceptances	16.4	25.3	94.0	735.0
Offer Acceptance Ratio*	0.11	0.44	0.91	1.00
95% Credible Interval**	[0.01, 0.30]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	324	818	3,748	22,207
Number of Acceptances	0	3	37	274
Expected Acceptances	5.6	11.9	43.3	278.5
Offer Acceptance Ratio*	0.26	0.36	0.86	0.98
95% Credible Interval**	[0.03, 0.73]			
Donor more than 500 miles away				
Number of Offers	410	572	2,657	20,665
Number of Acceptances	1	6	64	721
Expected Acceptances	13.6	17.1	81.5	758.0
Offer Acceptance Ratio*	0.19	0.42	0.79	0.95
95% Credible Interval**	[0.04, 0.46]			

\* The offer acceptance ratio estimates the relative offer acceptance practice of Johns Hopkins Hospital 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 acceptance practices (e.g., an offer acceptance at 25% less likely to accept an offer).

\*\* As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.16, 0.39], indicates the location of MDJH's true offer acceptance ratio with 95% probability. The best estimate is 74% less likely to accept an offer compared to nationalacceptance behavior, but MDJH's performance could plausibly range from 84% reduced acceptance up to 61% reduced acceptance.

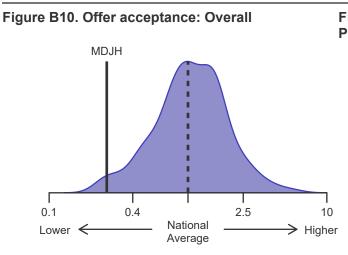


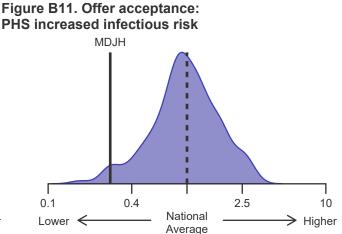
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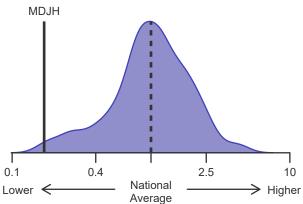
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### **B. Waiting List Information**











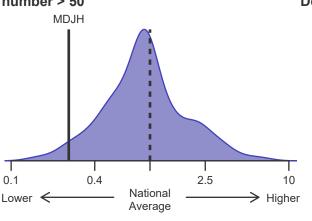


Figure B13. Offer acceptance: Donor age >= 40

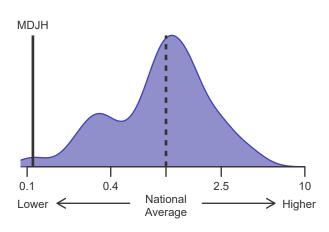
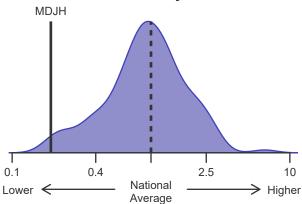


Figure B15. Offer acceptance: Donor more than 500 miles away





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#### **C. Transplant Information**

RECIPIENTS

## Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Percei	Percentage in each category		
Characteristic	Center (N=20)	Region (N=325)	U.S. (N=3,813)	
Ethnicity/Race (%)*				
White	40.0	50.8	57.0	
African-American	55.0	36.3	24.7	
Hispanic/Latino	5.0	9.2	12.7	
Asian	0.0	3.4	4.6	
Other	0.0	0.3	0.9	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	3.4	3.9	
2-11 years	0.0	3.1	3.9	
12-17	0.0	4.0	4.5	
18-34	25.0	9.8	10.6	
35-49 years	30.0	20.0	16.5	
50-64 years	40.0	42.5	41.6	
65-69 years	5.0	14.8	15.1	
70+ years	0.0	2.5	3.9	
Gender (%)				
Male	80.0	76.3	72.0	
Female	20.0	23.7	28.0	

\* 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 C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Percentage in each category		
Characteristic	Center (N=20)	Region (N=325)	U.S. (N=3,813)
Blood Type (%)			
0	50.0	40.3	42.3
A	40.0	37.2	38.8
В	5.0	14.8	14.5
AB	5.0	7.7	4.5
Previous Transplant (%)			
Yes	5.0	1.5	3.4
No	95.0	98.5	96.6
Body Mass Index (%)			
0-20	5.0	13.2	16.3
21-25	35.0	30.8	28.6
26-30	35.0	31.4	30.6
31-35	10.0	17.8	19.1
36-40	5.0	5.2	4.1
41+	10.0	0.6	0.8
Unknown	0.0	0.9	0.4
Primary Disease (%)	0.0	0.0	0.1
Cardiomyopathy	70.0	65.5	62.6
Coronary Artery Disease	15.0	23.4	24.5
Retransplant/Graft Failure	0.0	0.0	0.0
Valvular Heart Disease	0.0	0.6	0.9
Congenital Heart Disease	5.0	9.5	9.9
Other	10.0	0.9	1.9
Missing	0.0	0.0	0.3
Medical Urgency Status at Transplant (%)	0.0	0.0	0.5
Status 1A	5.0	9.5	10.4
Status 1B	0.0	1.2	2.2
Status 18 Status 2	0.0	0.3	0.2
Adult Status 1	35.0	14.8	9.7
Adult Status 2	60.0	47.1	44.5
Adult Status 3	0.0	8.3	11.5
Adult Status 4	0.0	13.2	16.2
Adult Status 5	0.0	0.0	0.8
Adult Status 6	0.0	5.5	4.6
Recipient Medical Condition at Transplant (%)	0.0	00.0	00.0
Not Hospitalized	0.0	20.6	28.2
Hospitalized	30.0	17.5	17.0
ICU	70.0	61.8	54.4
Unknown	0.0	0.0	0.4
Recipient Circulatory Support Status at Transplant (%)	. – .		
No Support Mechanism	15.0	16.9	23.1
Devices*	80.0	68.9	61.4
Other Support Mechanism	5.0	14.2	15.4
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 COVID-19 Guide for pandemic-related follow-up limits.



**Johns Hopkins Hospital** 

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### C. Transplant Information

## Table C3D. Deceased donor characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category		
Donor Characteristic	Center (N=20)	Region (N=325)	U.S. (N=3,813)
Cause of Death (%)			
Deceased: Stroke	0.0	12.9	12.2
Deceased: MVA	15.0	19.7	18.7
Deceased: Other	85.0	67.4	69.1
Ethnicity/Race (%)*			
White	60.0	56.6	60.3
African-American	30.0	22.8	17.4
Hispanic/Latino	10.0	18.8	19.2
Asian	0.0	1.2	1.6
Other	0.0	0.6	1.5
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	3.1	2.8
2-11 years	0.0	2.5	4.1
12-17	10.0	5.8	6.5
18-34	75.0	43.4	50.7
35-49 years	15.0	38.8	31.5
50-64 years	0.0	6.5	4.4
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	90.0	76.3	73.0
Female	10.0	23.7	27.0
Blood Type (%)			
0	50.0	50.2	53.6
A	40.0	36.9	34.5
В	10.0	9.2	10.2
AB	0.0	3.7	1.6
Unknown	0.0	0.0	0.0

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



**Johns Hopkins Hospital** 

Center Code: MDJH Transplant Program (Organ): Heart Release Date: January 5, 2023 RECIPIENTS Based on Data Available: October 31, 2022

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### **C. Transplant Information**

#### Table C4D. Deceased donor transplant characteristics Transplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category		
Transplant Characteristic	Center (N=20)	Region (N=325)	U.S. (N=3,813)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	14.3	8.7
Deceased: 91-180 min	100.0	69.4	59.3
Deceased: 181-270 min	0.0	16.3	27.3
Deceased: 271-360 min	0.0	0.0	3.0
Deceased: 361+ min	0.0	0.0	1.3
Not Reported	0.0	0.0	0.4
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.0	0.6
Deceased: 91-180 min	11.1	15.9	13.7
Deceased: 181-270 min	88.9	73.6	67.8
Deceased: 271-360 min	0.0	10.1	13.5
Deceased: 361+ min	0.0	0.0	4.0
Not Reported	0.0	0.4	0.4
Procedure Type (%)			
Single organ	85.0	91.7	88.5
Multi organ	15.0	8.3	11.5
Donor Location (%)			
Local Donation Service Area (DSA)	10.0	15.1	21.5
Another Donation Service Area (DSA)	90.0	84.9	78.5
Median Time in Hospital After Transplant	28.0 Days	19.0 Days	18.0 Days



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### C. Transplant Information

REGISTRY OF

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

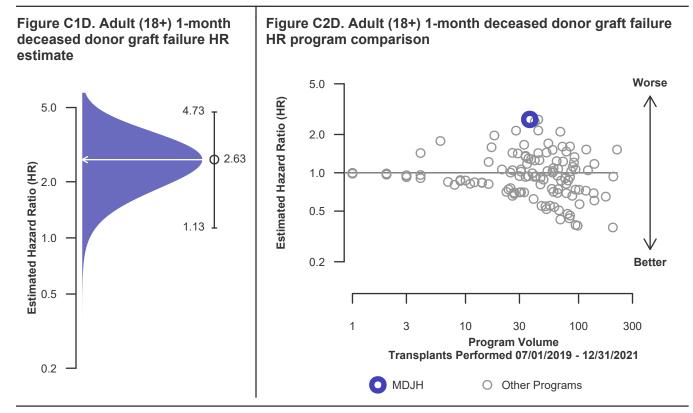
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	37	6,501
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	83.70%	96.68%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.72%	
Number of observed graft failures (including deaths) during the first month after transplant	6	212
Number of expected graft failures (including deaths) during the first month after transplant	1.05	
Estimated hazard ratio*	2.63	
95% credible interval for the hazard ratio**	[1.13, 4.73]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [1.13, 4.73], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 163% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 13% increased risk up to 373% increased risk.





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### **C. Transplant Information**

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

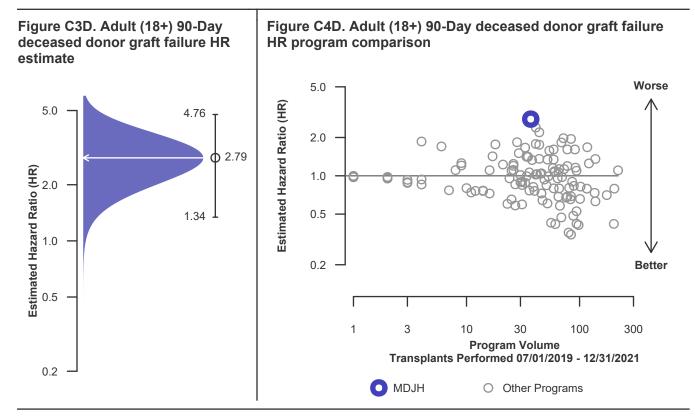
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	37	6,501
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	78.12%	94.57%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.59%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	8	340
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.59	
Estimated hazard ratio*	2.79	
95% credible interval for the hazard ratio**	[1.34, 4.76]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [1.34, 4.76], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 179% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 34% increased risk up to 376% increased risk.





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### **C. Transplant Information**

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

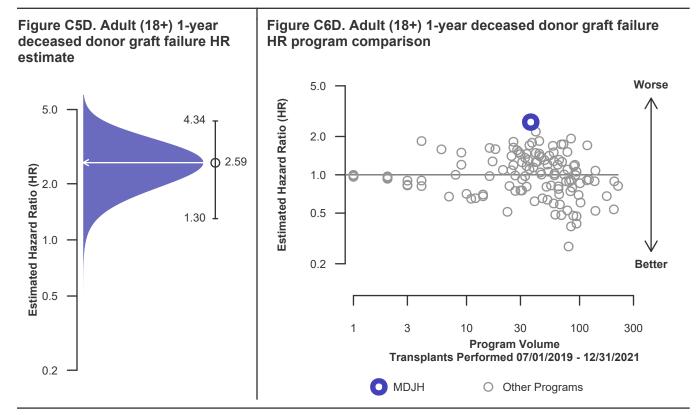
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	37	6,501
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	72.11%	90.91%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	90.90%	
Number of observed graft failures (including deaths) during the first year after transplant	9	501
Number of expected graft failures (including deaths) during the first year after transplant	2.24	
Estimated hazard ratio*	2.59	
95% credible interval for the hazard ratio**	[1.30, 4.34]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [1.30, 4.34], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 159% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 30% increased risk up to 334% increased risk.





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### **C. Transplant Information**

#### Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft

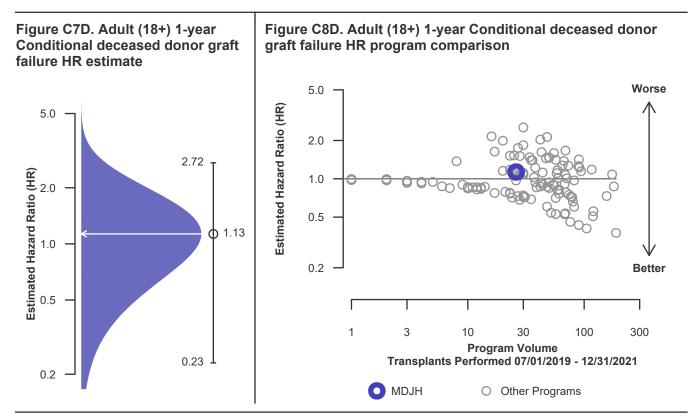
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	26	5,484
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		96.13%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.10%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	161
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.65	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.23, 2.72]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.23, 2.72], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 13% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 77% reduced risk up to 172% increased risk.





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### **C. Transplant Information**

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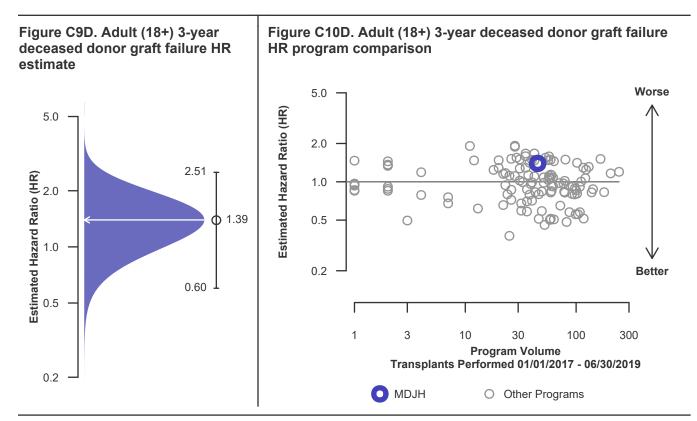
#### Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	MDJH	U.S.
Number of transplants evaluated	45	6,645
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	86.67%	85.85%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.46%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	6	759
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.73	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.60, 2.51]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.60, 2.51], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 39% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 40% reduced risk up to 151% increased risk.





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

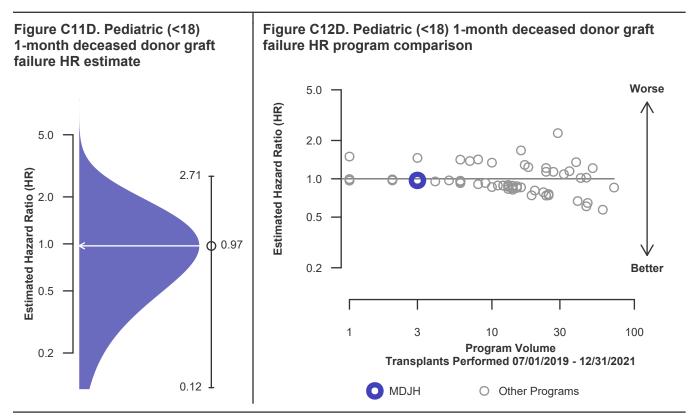
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	3	1,106
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.62%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.04%	
Number of observed graft failures (including deaths) during the first month after transplant	0	26
Number of expected graft failures (including deaths) during the first month after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.71]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.71], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 88% reduced risk up to 171% increased risk.





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### **C. Transplant Information**

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

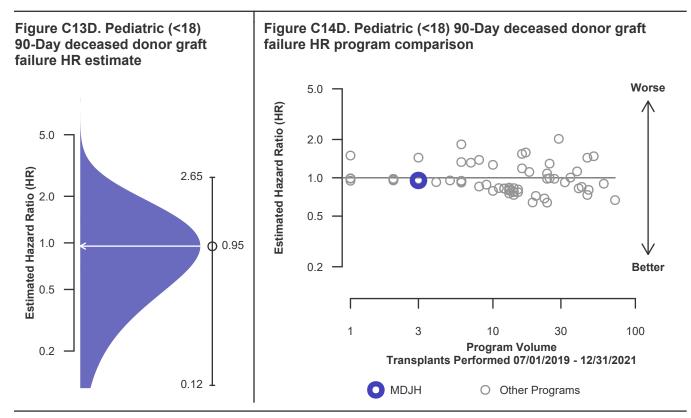
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	3	1,106
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	96.09%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.77%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	42
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.65]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.65], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 88% reduced risk up to 165% increased risk.





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### C. Transplant Information

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

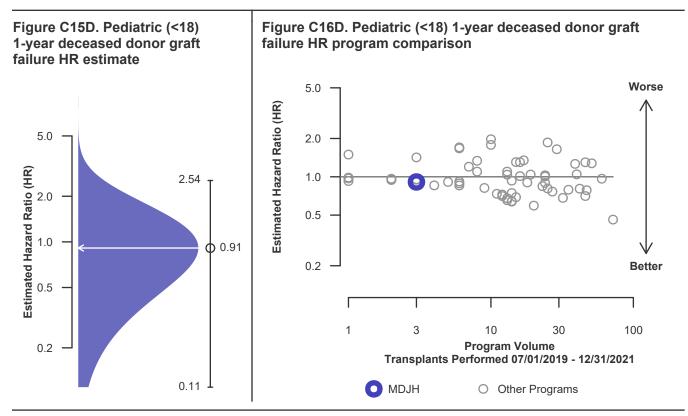
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	3	1,106
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	91.59%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.94%	
Number of observed graft failures (including deaths) during the first year after transplant	0	74
Number of expected graft failures (including deaths) during the first year after transplant	0.20	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.11, 2.54]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.54], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 9% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 154% increased risk.





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### **C. Transplant Information**

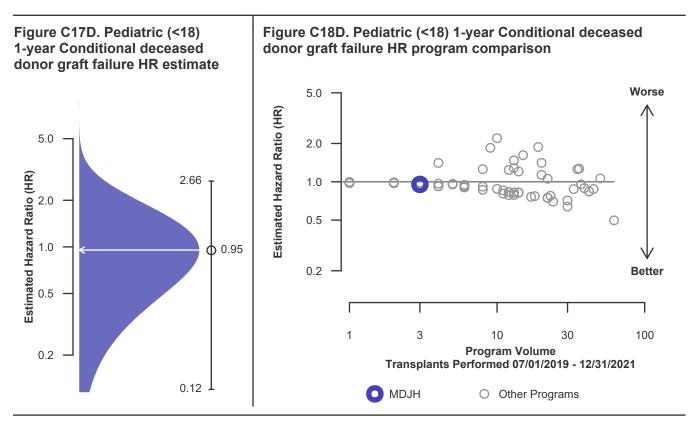
#### Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	3	957
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		95.32%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.04%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	32
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.66]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.66], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 88% reduced risk up to 166% increased risk.





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### C. Transplant Information

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

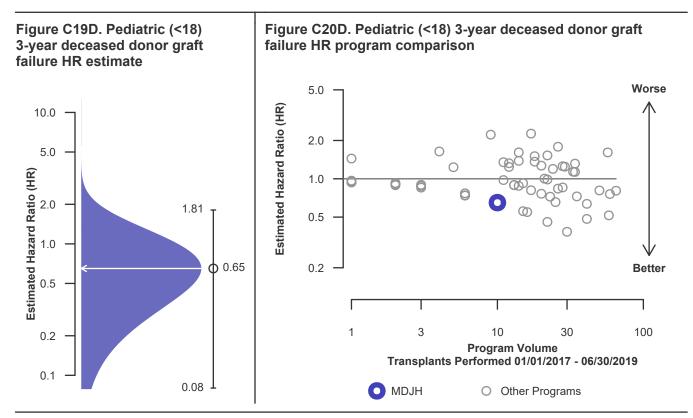
Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	10	1,178
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	87.18%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.19%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	117
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.08	
Estimated hazard ratio*	0.65	
95% credible interval for the hazard ratio**	[0.08, 1.81]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.08, 1.81], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 35% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 92% reduced risk up to 81% increased risk.





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### **C. Transplant Information**

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

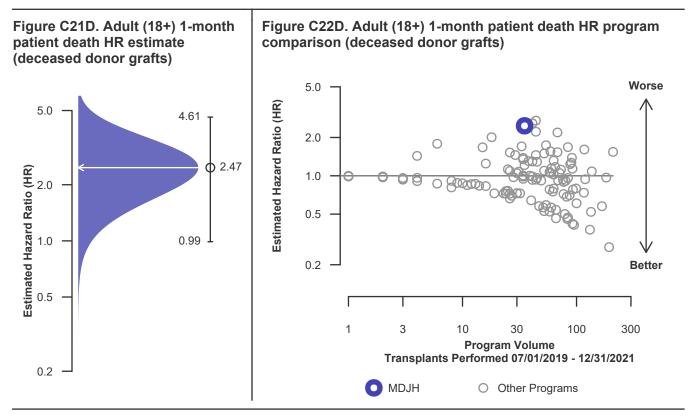
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	35	6,356
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	85.62%	97.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.18%	
Number of observed deaths during the first month after transplant	5	187
Number of expected deaths during the first month after transplant	0.83	
Estimated hazard ratio*	2.47	
95% credible interval for the hazard ratio**	[0.99, 4.61]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.99, 4.61], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 147% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 1% reduced risk up to 361% increased risk.





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### **C. Transplant Information**

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

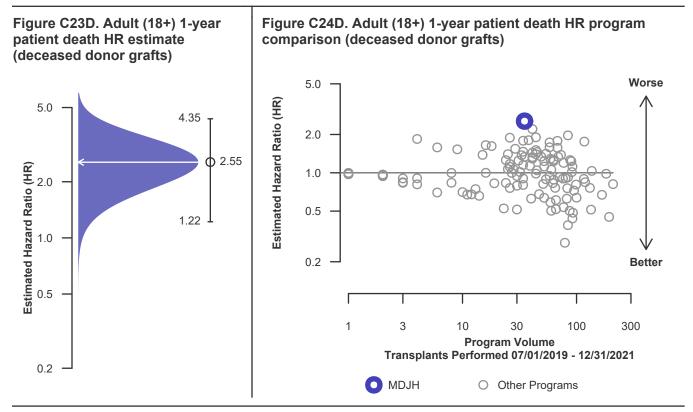
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	35	6,356
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	72.97%	91.28%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	91.69%	
Number of observed deaths during the first year after transplant	8	466
Number of expected deaths during the first year after transplant	1.93	
Estimated hazard ratio*	2.55	
95% credible interval for the hazard ratio**	[1.22, 4.35]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [1.22, 4.35], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 155% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 22% increased risk up to 335% increased risk.





SCIENTIFIC Johns Hopkins Hospital

REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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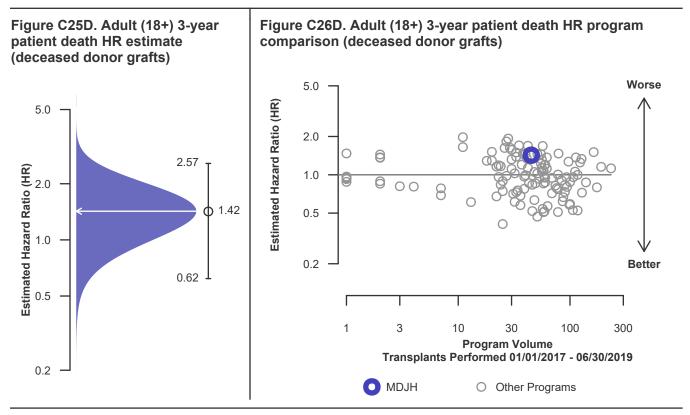
### **C. Transplant Information**

#### Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	MDJH	U.S.
Number of transplants evaluated	45	6,474
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	86.67%	86.58%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.88%	
Number of observed deaths during the first 3 years after transplant	6	705
Number of expected deaths during the first 3 years after transplant	3.62	
Estimated hazard ratio*	1.42	
95% credible interval for the hazard ratio**	[0.62, 2.57]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.62, 2.57], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 42% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 38% reduced risk up to 157% increased risk.





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### C. Transplant Information

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

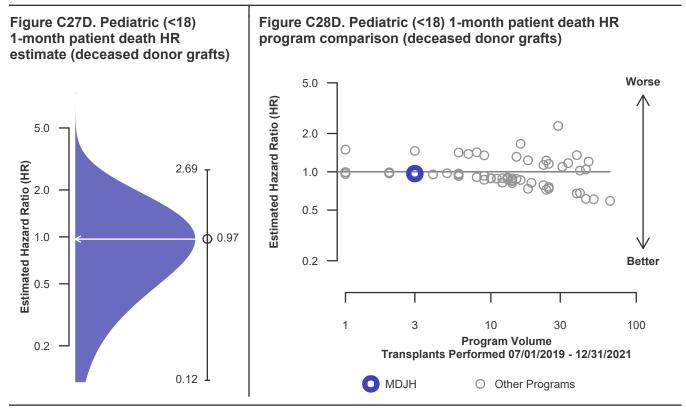
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	3	1,057
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.60%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.78%	
Number of observed deaths during the first month after transplant	0	25
Number of expected deaths during the first month after transplant	0.07	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.69]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.69], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 88% reduced risk up to 169% increased risk.





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### **C. Transplant Information**

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

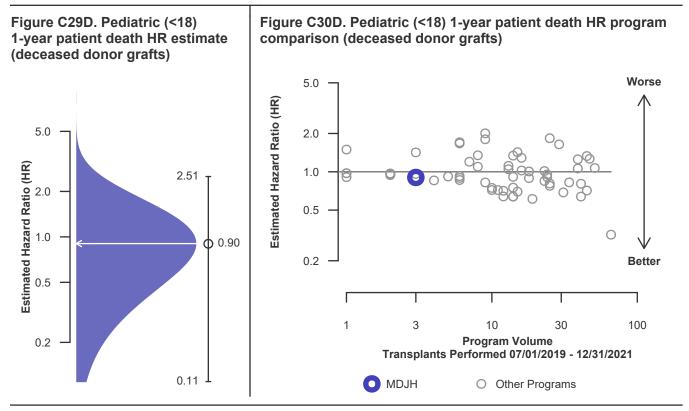
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	3	1,057
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	91.49%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	91.95%	
Number of observed deaths during the first year after transplant	0	72
Number of expected deaths during the first year after transplant	0.22	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.51]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.51], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 10% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 151% increased risk.





SCIENTIFIC Johns Hopkins Hospital

REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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### **C. Transplant Information**

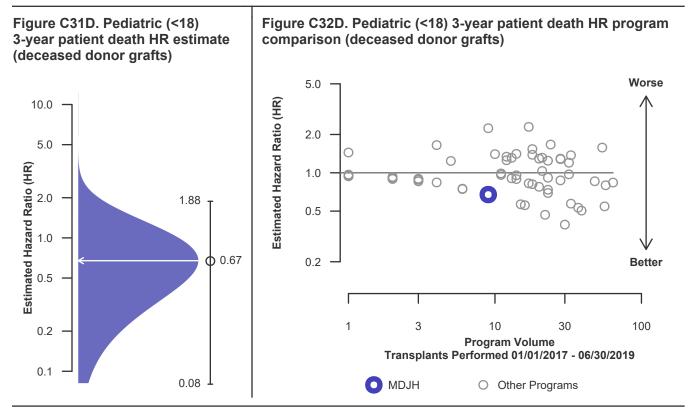
# Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)</th> Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	9	1,134
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	87.63%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	87.64%	
Number of observed deaths during the first 3 years after transplant	0	109
Number of expected deaths during the first 3 years after transplant	0.97	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.08, 1.88]	

\* The hazard ratio provides an estimate of how Johns Hopkins Hospital'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 MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.08, 1.88], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 33% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 92% reduced risk up to 88% increased risk.





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### **C. Transplant Information**

#### Table C21. Multi-organ transplant graft survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transplants Heart Performed Graft Failures MDJH-TX1 USA MDJH-TX1 USA		Performed		Estimate Graft Su MDJH-TX1	ırvival
Kidney-Heart Liver-Heart	6 1	736 102	0 0	78 16	100.0% 100.0%	89.2% 83.8%

#### Pediatric (<18) Transplants

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

#### Table C22. Multi-organ transplant patient survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed Patient Deat MDJH-TX1 USA MDJH-TX1 US		eaths USA	Estima Patient S MDJH-TX1	urvival	
Kidney-Heart Liver-Heart	6 1	736 102	0 0	77 16	100.0% 100.0%	89.4% 83.8%

#### Pediatric (<18) Transplants

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