

SCIENTIFIC **Johns Hopkins Hospital** 

Center Code: MDJH REGISTRY OF Transplant Program (Organ): Heart TRANSPLANT Release Date: July 6, 2022 RECIPIENTS

Based on Data Available: April 30, 2022

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

#### COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

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

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

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

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2016-12/31/2018; follow-up through 3/12/2020.

Pre-Transplant Mortality Rate (formerly called Waitlist Mortality Rate): Evaluation cohorts will exclude March 13, 2020 through June 12, 2020, inclusive of March 13 and June 12:

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Days after listing (and before transplant) between 1/1/2020-3/12/2020 and 6/13/2020-12/31/2021.

Transplant Rate: Evaluation cohorts will exclude March 13, 2020 through June 12, 2020, inclusive of March 13 and June 12:

Candidates on the waitlist 1/1/2020-3/12/2020 and 6/13/2020-12/31/2021.

Overall Rate of Mortality After Listing: Evaluation cohorts will exclude March 13, 2020 through June 12, 2020, inclusive of March 13 and June 12:

Evaluation period: 1/1/2020-3/12/2020 and 6/13/2020-12/31/2021.

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 July 6, 2022. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for January 2023.

As with the January 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 53.2 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2016 and 06/30/2021. 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 12/31/2021 to calculate a particular percentile of transplant times.

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

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

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

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

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

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



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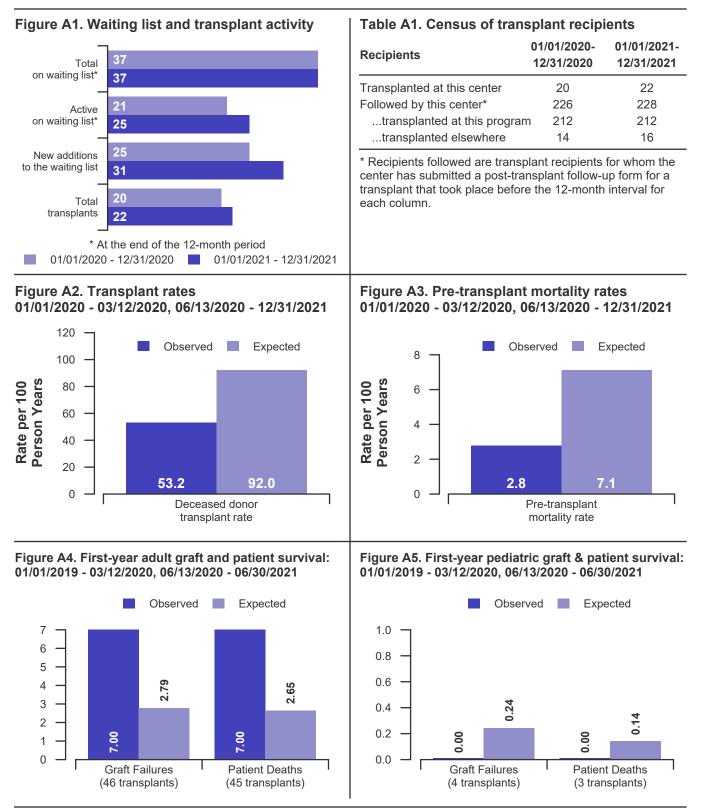


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### A. Program Summary





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

#### Table B1. Waiting list activity summary: 01/01/2020 - 12/31/2021

		ts for enter	Activity for 01/01/2021 to 12/31/2021 as percent of registrants on waiting lis on 01/01/2021			
Waiting List Registrations	01/01/2020- 12/31/2020	01/01/2021- 12/31/2021	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	39	37	100.0	100.0	100.0	
New listings at this center	25	31	83.8	125.0	140.9	
Removals						
Transferred to another center	2	3	8.1	2.9	2.3	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	20	22	59.5	94.0	107.4	
Died	1	0	0.0	6.0	7.0	
Transplanted at another center	0	0	0.0	0.0	0.8	
Deteriorated	2	1	2.7	7.8	7.8	
Recovered	0	3	8.1	8.6	6.6	
Other reasons	2	2	5.4	10.9	9.9	
On waiting list at end of period	37	37	100.0	94.8	99.1	

\* 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 01/01/2021 and 12/31/2021

Demographic Characteristic		ting List Regi 021 to 12/31/2		All Waiting List Registrations on 12/31/2021 (%)			
	This Center (N=31)	OPTN Region (N=435)	U.S. (N=5,009)	This Center (N=37)	OPTN Region (N=330)	U.S. (N=3,524)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	48.4	55.6	56.4	40.5	48.8	55.6	
African-American	38.7	31.7	25.1	43.2	39.7	28.0	
Hispanic/Latino	3.2	7.6	12.5	10.8	7.0	11.9	
Asian	6.5	3.2	4.4	2.7	2.7	3.2	
Other	3.2	1.8	1.6	2.7	1.8	1.3	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	6.5	4.8	5.0	2.7	2.4	4.5	
2-11 years	0.0	2.8	4.3	5.4	3.3	5.2	
12-17 years	3.2	3.9	4.7	2.7	2.1	3.9	
18-34 years	9.7	9.7	10.1	5.4	8.8	11.4	
35-49 years	19.4	17.2	16.8	16.2	22.1	21.2	
50-64 years	51.6	43.9	42.0	62.2	49.1	42.4	
65-69 years	9.7	15.9	14.0	5.4	11.2	10.4	
70+ years	0.0	1.8	3.1	0.0	0.9	1.0	
Gender (%)							
Male	77.4	74.7	71.2	70.3	79.4	73.8	
Female	22.6	25.3	28.8	29.7	20.6	26.2	

\* 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 candidatesCandidates registered on the waiting list between 01/01/2021 and 12/31/2021

Medical Characteristic	01/01/2	iting List Regis 021 to 12/31/20		All Waiting List Registrations on 12/31/2021 (%)			
	This Center (N=31)	OPTN Region (N=435)	U.S. (N=5,009)	This Center (N=37)	OPTN Region (N=330)	U.S. (N=3,524)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	51.6	45.3	45.9	56.8	63.9	61.2	
A	22.6	33.6	35.8	24.3	22.1	27.3	
В	19.4	15.2	14.4	18.9	12.4	10.1	
AB	6.5	6.0	3.9	0.0	1.5	1.4	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	9.7	2.8	3.9	2.7	3.9	3.8	
No	90.3	97.2	96.1	97.3	96.1	96.2	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Cardiomyopathy	64.5	61.4	57.4	73.0	63.0	56.3	
Coronary Artery Disease	16.1	24.4	24.4	13.5	22.7	24.4	
Retransplant/Graft Failure	9.7	2.3	3.5	2.7	3.0	3.1	
Valvular Heart Disease	3.2	1.1	1.0	2.7	1.2	0.9	
Congenital Heart Disease	6.5	9.4	11.3	8.1	8.8	13.2	
Other	0.0	1.4	2.3	0.0	1.2	2.1	
Missing	0.0	0.0	0.0	0.0	0.0	0.0	
Medical Urgency Status at Listin	- · ·						
Status 1A	6.5	6.7	8.2	8.1	3.9	6.2	
Status 1B	0.0	4.1	3.2	8.1	7.6	9.4	
Status 2	3.2	0.7	2.4	29.7	10.0	12.3	
Adult Status 1	3.2	5.5	4.9	0.0	0.3	0.3	
Adult Status 2	32.3	22.5	22.3	2.7	3.9	4.2	
Adult Status 3	0.0	4.8	8.6	2.7	2.4	4.0	
Adult Status 4	25.8	34.5	30.3	8.1	39.4	36.1	
Adult Status 5	0.0	1.8	3.2	0.0	3.0	3.9	
Adult Status 6	29.0	18.6	15.7	35.1	27.0	21.0	
Temporarily Inactive	0.0	0.7	1.3	5.4	2.4	2.6	



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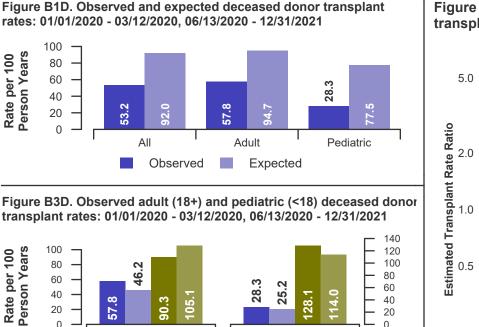
### **B. Waiting List Information**

#### Table B4D. Deceased donor transplant rates: 01/01/2020 - 03/12/2020, 06/13/2020 - 12/31/2021

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	39	85	377	3,754
Person Years**	67.7	152.7	611.6	6,248.7
Removals for Transplant	36	68	570	6,635
Adult (18+) Candidates				
Count on waiting list at start*	33	77	347	3,344
Person Years**	57.1	140.8	564.8	5,481.8
Removals for transpant	33	65	510	5,761
Pediatric (<18) Candidates				
Count on waiting list at start*	6	8	30	410
Person Years**	10.6	11.9	46.9	766.9
Removals for transplant	3	3	60	874

\* 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.

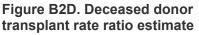
\*\* Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31. Person years excludes time on the waiting list between March 13, 2020 and June 12, 2020.

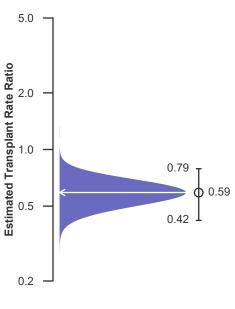


Pediatric (<18)

U.S.

Region





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Adult (18+)

This Center

OPO/DSA



Rate per 100 Person Years

8

6

4

2

0

This Center

3.3

Adult (18+)

OPO/DSA

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

#### Table B5. Pre-transplant mortality rates: 01/01/2020 - 03/12/2020, 06/13/2020 - 12/31/2021

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	39	85	377	3,754
Person Years**	72.2	170.2	711.7	7,157.9
Number of deaths	2	9	57	636
Adult (18+) Candidates				
Count on waiting list at start*	33	77	347	3,344
Person Years**	60.3	156.6	659.4	6,290.1
Number of deaths	2	9	51	544
Pediatric (<18) Candidates				
Count on waiting list at start*	6	8	30	410
Person Years**	11.9	13.5	52.4	867.8
Number of deaths	0	0	6	92

\* 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. Person years excludes time on the waiting list between March 13, 2020 and June 12, 2020.

12

10

8

6

4

2

0

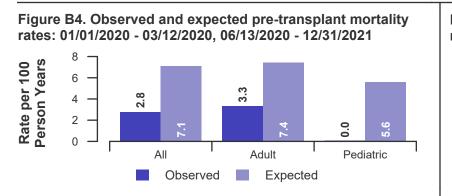
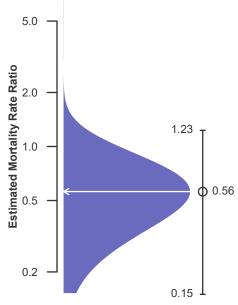


Figure B6. Observed adult (18+) and pediatric (<18) pre-transplant

mortality rates: 01/01/2020 - 03/12/2020, 06/13/2020 - 12/31/2021

## Figure B5. Pre-transplant mortality rate ratio estimate



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0.0

Pediatric (<18)

U.S.

0.0

Region



REGISTRY º⁵ TRANSPLANT RECIPIENTS

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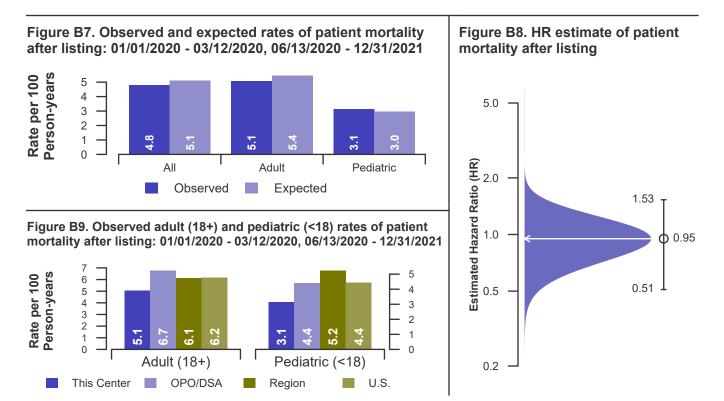
### **B. Waiting List Information**

Table B6. Rates of	natient mortality a	fter listina <sup>.</sup> (	01/01/2020 -	03/12/2020	06/13/2020 =	12/31/2021
	pationt mortanty a	ntor notnig. v				

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	189	434	2,721	27,954
Person-years*	229.6	519.8	3,189.9	33,120.8
Number of Deaths	11	34	192	1,959
Adult (18+) Patients				
Count at risk during the evaluation period	163	399	2,445	23,928
Person-years*	197.7	474.3	2,864.2	28,331.3
Number of Deaths	10	32	175	1,746
Pediatric (<18) Patients				
Count at risk during the evaluation period	26	35	276	4,026
Person-years*	31.8	45.5	325.7	4,789.4
Number of Deaths	1	2	17	213

\* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2020, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 2021. Person years excludes time on the waiting list between March 13, 2020 and June 12, 2020.

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





Center Code: MDJH

REGISTRY OF Transplant Program (Organ): Heart TRANSPLANT Release Date: July 6, 2022 RECIPIENTS

Based on Data Available: April 30, 2022

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

#### Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 07/01/2019 and 06/30/2020

	•	,	U.S. (N=4,403) Months Since Listing		
6	12	18	6	12	18
36.0	28.0	24.0	31.7	19.9	13.7
0.0	0.0	0.0	3.0	3.7	4.0
8.0	12.0	12.0	3.0	3.7	4.3
0.0	0.0	0.0	0.7	1.8	2.8
0.0	0.0	0.0	0.1	0.1	0.2
0.0	0.0	0.0	2.2	3.0	3.8
52.0	44.0	40.0	55.3	58.3	43.2
0.0	0.0	0.0	0.1	0.2	0.2
0.0	0.0	0.0	0.0	0.0	0.0
4.0	4.0	4.0	3.1	5.0	5.9
0.0	12.0	20.0	0.3	3.2	20.7
0.0	0.0	0.0	0.5	1.0	1.2
100.0	100.0	100.0	100.0	100.0	100.0
4.0	4.0	4.0	6.1	8.7	9.9
12.0	16.0	16.0	9.1	12.4	14.1
56.0	60.0	64.0	58.9	66.7	70.0
52.0	44.0	40.0	55.3	58.3	43.2
	Month 6 36.0 0.0 8.0 0.0 0.0 52.0 0.0 52.0 0.0 4.0 0.0 4.0 0.0 100.0 4.0 12.0 56.0	Months Since L           6         12           36.0         28.0           0.0         0.0           8.0         12.0           0.0         0.0           8.0         12.0           0.0         0.0           0.0         0.0           0.0         0.0           0.0         0.0           0.0         0.0           52.0         44.0           0.0         0.0           52.0         44.0           0.0         0.0           0.0         0.0           4.0         4.0           0.0         12.0           0.0         100.0           100.0         100.0           4.0         4.0           12.0         16.0           56.0         60.0	36.0         28.0         24.0           0.0         0.0         0.0           8.0         12.0         12.0           0.0         0.0         0.0           0.0         0.0         0.0           0.0         0.0         0.0           0.0         0.0         0.0           0.0         0.0         0.0           0.0         0.0         0.0           0.0         0.0         0.0           52.0         44.0         40.0           0.0         0.0         0.0           0.0         0.0         0.0           0.0         0.0         0.0           0.0         12.0         20.0           0.0         0.0         0.0           100.0         100.0         100.0           4.0         4.0         4.0           12.0         16.0         16.0           56.0         60.0         64.0	Months Since Listing         Month           6         12         18         6 $36.0$ $28.0$ $24.0$ $31.7$ $0.0$ $0.0$ $0.0$ $3.0$ $8.0$ $12.0$ $12.0$ $3.0$ $8.0$ $12.0$ $12.0$ $3.0$ $0.0$ $0.0$ $0.0$ $0.7$ $0.0$ $0.0$ $0.0$ $0.7$ $0.0$ $0.0$ $0.0$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.0$ $0.0$ $0.0$ $0.0$ $4.0$ $4.0$ $4.0$ $3.1$ $0.0$ $0.0$ $0.0$ $0.5$ $100.0$ $100.0$ $100.0$ $100.0$ $4.0$ $4.0$ $4.0$ </td <td>Months Since Listing 6Months Since L 6Months Since L 6<math>36.0</math><math>28.0</math><math>24.0</math><math>31.7</math><math>19.9</math><math>0.0</math><math>0.0</math><math>0.0</math><math>3.0</math><math>3.7</math><math>8.0</math><math>12.0</math><math>12.0</math><math>3.0</math><math>3.7</math><math>8.0</math><math>12.0</math><math>12.0</math><math>3.0</math><math>3.7</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.7</math><math>1.8</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.7</math><math>1.8</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.1</math><math>0.1</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.1</math><math>0.1</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.1</math><math>0.1</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.1</math><math>0.2</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.1</math><math>0.2</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.0</math><math>0.0</math><math>4.0</math><math>4.0</math><math>4.0</math><math>3.1</math><math>5.0</math><math>0.0</math><math>100.0</math><math>100.0</math><math>100.0</math><math>100.0</math><math>100.0</math><math>100.0</math><math>4.0</math><math>4.0</math><math>4.0</math><math>6.1</math><math>4.0</math><math>4.0</math><math>4.0</math><math>6.1</math><math>4.0</math><math>4.0</math><math>6.1</math><math>8.7</math><math>12.0</math><math>16.0</math><math>16.0</math><math>9.1</math><math>12.4</math><math>56.0</math><math>60.0</math><math>64.0</math><math>58.9</math></td>	Months Since Listing 6Months Since L 6Months Since L 6 $36.0$ $28.0$ $24.0$ $31.7$ $19.9$ $0.0$ $0.0$ $0.0$ $3.0$ $3.7$ $8.0$ $12.0$ $12.0$ $3.0$ $3.7$ $8.0$ $12.0$ $12.0$ $3.0$ $3.7$ $0.0$ $0.0$ $0.0$ $0.7$ $1.8$ $0.0$ $0.0$ $0.0$ $0.7$ $1.8$ $0.0$ $0.0$ $0.0$ $0.1$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.1$ $0.0$ $0.0$ $0.0$ $0.1$ $0.2$ $0.0$ $0.0$ $0.0$ $0.1$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $4.0$ $4.0$ $4.0$ $3.1$ $5.0$ $0.0$ $100.0$ $100.0$ $100.0$ $100.0$ $100.0$ $100.0$ $4.0$ $4.0$ $4.0$ $6.1$ $4.0$ $4.0$ $4.0$ $6.1$ $4.0$ $4.0$ $6.1$ $8.7$ $12.0$ $16.0$ $16.0$ $9.1$ $12.4$ $56.0$ $60.0$ $64.0$ $58.9$

\* 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 01/01/2016 and 12/31/2018

Characteristic	Percent transplanted at time periods since listing This Center United States								-	
onaracteristic	Ν				3 years	N				3 years
All	104	12.5	51.0	55.8	59.6	13,835	18.2	57.0	64.4	66.9
Ethnicity/Race*										
White	52	13.5	57.7	59.6	61.5	8,555	18.4	57.4	64.8	67.4
African-American	42	7.1	42.9	50.0	57.1	3,182	16.3	53.2	61.1	63.6
Hispanic/Latino	6	33.3	50.0	50.0	50.0	1,406	18.4	59.4	65.9	68.5
Asian	4	25.0	50.0	75.0	75.0	524	27.5	66.8	73.3	74.2
Other	0					168	16.1	60.1	64.9	67.9
Unknown	0					0				
Age										
<2 years	4	25.0	50.0	50.0	50.0	853	14.4	60.3	61.2	61.3
2-11 years	7	0.0	57.1	57.1	57.1	603	13.3	61.4	69.5	71.8
12-17 years	6	33.3	83.3	83.3	83.3	539	29.9	73.8	80.9	82.0
18-34 years	8	37.5	75.0	87.5	87.5	1,319	18.6	54.0	60.0	63.1
35-49 years	28	3.6	50.0	50.0	60.7	2,536	15.1	52.3	61.4	64.4
50-64 years	43	14.0	39.5	46.5	48.8	5,796	17.4	55.4	63.7	66.7
65-69 years	8	0.0	62.5	75.0	75.0	1,840	22.5	60.4	67.3	69.1
70+ years	0					349	31.5	70.8	72.5	73.1
Gender										
Male	72	9.7	48.6	55.6	59.7	9,783	17.2	55.5	63.5	66.3
Female	32	18.8	56.2	56.2	59.4	4,052	20.8	60.8	66.5	68.5

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

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

 Candidates registered on the waiting list between 01/01/2016 and 12/31/2018

Characteristic			ercent tr nis Cent	-	nted at t	ime per	iods sir Un	ice listi ited Sta	-	
	Ν	30 day	1 year	2 years	3 years	Ν	30 day	1 year	2 years	3 years
All	104	12.5	51.0	55.8	59.6	13,835	18.2	57.0	64.4	66.9
Blood Type										
0	44	9.1	36.4	40.9	47.7	6,154	11.5	47.8	56.0	59.2
A	43	16.3	67.4	74.4	76.7	5,097	22.4	63.4	70.1	72.1
В	16	12.5	50.0	50.0	50.0	1,962	22.4	63.4	70.3	72.8
AB	1	0.0	0.0	0.0	0.0	621	37.5	76.8	81.6	82.1
Previous Transplant										
Yes	0					570	14.0	47.9	52.6	54.9
No	104	12.5	51.0	55.8	59.6	13,265	18.4	57.4	64.9	67.4
Primary Disease										
Cardiomyopathy	82	14.6	48.8	53.7	57.3	7,884	19.9	59.1	66.7	69.0
Coronary Artery Disease	13	0.0	53.8	61.5	69.2	3,624	17.9	54.8	62.6	66.0
Retransplant/Graft Failure	0					485	13.4	48.2	53.2	55.9
Valvular Heart Disease	0					133	15.0	60.2	65.4	67.7
Congenital Heart Disease	8	12.5	62.5	62.5	62.5	1,496	12.5	55.5	61.6	63.2
Other	1	0.0	100.0	100.0	100.0	213	17.8	48.4	53.1	54.9
Missing	0					0				
Medical Urgency Status at Lis	sting									
Status 1A	24	37.5	79.2	79.2	79.2	4,119	32.8	70.8	73.6	74.5
Status 1B	21	0.0	38.1	38.1	47.6	5,325	14.8	58.4	66.8	69.5
Status 2	49	4.1	42.9	53.1	57.1	3,202	4.9	39.4	50.6	54.7
Unknown	3	0.0	33.3	33.3	33.3	452	7.5	38.7	47.1	50.7



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

## Table B10. Time to transplant for waiting list candidates\*Candidates registered on the waiting list between 01/01/2016 and 06/30/2021

	Months to Transplant**								
Percentile	Center	OPO/DSA	Region	U.S.					
5th	0.3	0.3	0.2	0.2					
10th	0.4	0.5	0.3	0.3					
25th	1.1	1.3	1.1	0.9					
50th (median time to transplant)	5.0	8.0	5.5	4.9					
75th	Not Observed	Not Observed	Not Observed	Not Observed					

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

\*\* Censored on 12/31/2021. 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 OF Center Code: MDJH TRANSPLANT Release Date: July 6

Transplant Program (Organ): Heart Release Date: July 6, 2022 Based on Data Available: April 30, 2022 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

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

RECIPIENTS

#### Table B11. Offer Acceptance Practices: 01/01/2021 - 12/31/2021

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	1,313	2,010	8,199	59,592
Number of Acceptances	18	34	305	3,370
Expected Acceptances	62.0	77.9	349.8	3,369.7
Offer Acceptance Ratio*	0.31	0.45	0.87	1.00
95% Credible Interval**	[0.19, 0.46]			
PHS increased infectious risk				
Number of Offers	405	557	2,128	15,090
Number of Acceptances	3	9	79	776
Expected Acceptances	17.9	22.6	90.8	775.9
Offer Acceptance Ratio*	0.25	0.45	0.87	1.00
95% Credible Interval**	[0.08, 0.51]			
Ejection fraction < 60				
Number of Offers	394	549	2,339	17,202
Number of Acceptances	7	13	101	962
Expected Acceptances	20.5	25.4	111.7	955.9
Offer Acceptance Ratio*	0.40	0.55	0.91	1.01
95% Credible Interval**	[0.18, 0.70]			
Donor Age >= 40				
Number of Offers	592	1,055	4,244	28,983
Number of Acceptances	0	6	94	735
Expected Acceptances	16.2	23.0	88.7	734.4
Offer Acceptance Ratio*	0.11	0.32	1.06	1.00
95% Credible Interval**	[0.01, 0.31]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	303	774	3,541	22,707
Number of Acceptances	0	4	44	247
Expected Acceptances	4.7	10.3	34.3	252.0
Offer Acceptance Ratio*	0.30	0.49	1.27	0.98
95% Credible Interval**	[0.04, 0.83]			
Donor more than 500 miles away				
Number of Offers	410	586	2,491	21,032
Number of Acceptances	2	5	63	742
Expected Acceptances	12.5	15.6	72.7	771.5
Offer Acceptance Ratio*	0.28	0.40	0.87	0.96
95% Credible Interval**	[0.08, 0.60]			

\* 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 a 25% less likely to accept an offer).

\*\* As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.19, 0.46], indicates the location of MDJH's true offer acceptance ratio with 95% probability. The best estimate is 69% less likely to accept an offer compared to nationalacceptance behavior, but MDJH's performance could plausibly range from 81% reduced acceptance up to 54% reduced acceptance.

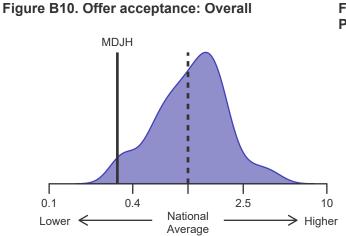


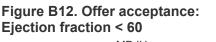
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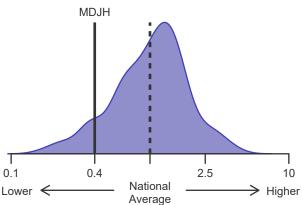
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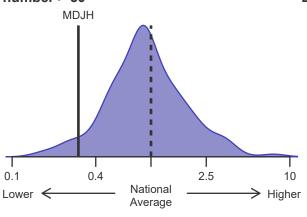
#### **B. Waiting List Information**











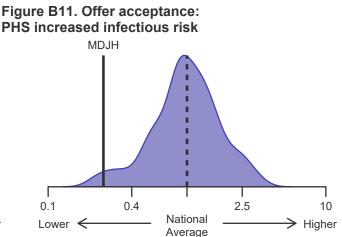
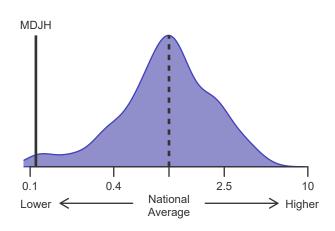
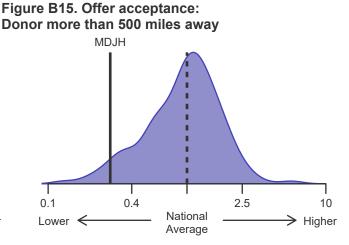


Figure B13. Offer acceptance: Donor age >= 40







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

## Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2021 and 12/31/2021

	Perce	Percentage in each category		
Characteristic	Center (N=22)	Region (N=327)	U.S. (N=3,817)	
Ethnicity/Race (%)*				
White	50.0	57.2	58.1	
African-American	45.5	30.6	24.4	
Hispanic/Latino	0.0	8.0	11.7	
Asian	4.5	2.8	4.5	
Other	0.0	1.5	1.3	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	2.8	3.9	
2-11 years	4.5	3.7	4.1	
12-17	4.5	4.3	4.8	
18-34	13.6	11.0	9.9	
35-49 years	18.2	17.7	15.8	
50-64 years	45.5	41.6	42.5	
65-69 years	13.6	15.9	15.1	
70+ years	0.0	3.1	4.0	
Gender (%)				
Male	86.4	73.4	71.8	
Female	13.6	26.6	28.2	

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

TRANSPLANT

RECIPIENTS

## Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2021 and 12/31/2021

	Percentage in each category		
Characteristic	Center	Region	U.S.
	(N=22)	(N=327)	(N=3,817)
Blood Type (%)			
0	50.0	37.3	42.4
A	22.7	37.3	37.6
В	18.2	17.7	15.2
AB	9.1	7.6	4.7
Previous Transplant (%)			
Yes	9.1	1.5	3.4
No	90.9	98.5	96.6
Body Mass Index (%)			
0-20	9.1	15.9	16.1
21-25	27.3	29.1	28.5
26-30	40.9	33.9	30.9
31-35	9.1	14.7	18.7
36-40	4.5	4.6	4.3
41+	9.1	1.5	0.8
Unknown	0.0	0.3	0.8
Primary Disease (%)	0.0	0.0	0.0
Cardiomyopathy	63.6	62.1	61.0
Coronary Artery Disease	13.6	25.4	26.3
Retransplant/Graft Failure	0.0	0.0	0.0
Valvular Heart Disease	0.0	0.9	0.5
Congenital Heart Disease	13.6	10.4	10.1
Other	9.1	1.2	1.9
Missing	0.0	0.0	0.2
Medical Urgency Status at Transplant (%)	0.0	0.0	0.2
Status 1A	13.6	8.3	10.8
		2.1	2.3
Status 1B	0.0 0.0	1.2	
Status 2			0.2
Adult Status 1	18.2	12.8	9.2
Adult Status 2	68.2	45.3	43.9
Adult Status 3	0.0	8.0	11.7
Adult Status 4	0.0	18.3	16.6
Adult Status 5	0.0	0.0	0.6
Adult Status 6	0.0	4.0	4.7
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	4.5	24.5	27.6
Hospitalized	27.3	16.2	17.1
ICU	68.2	59.3	54.9
Unknown	0.0	0.0	0.4
Recipient Circulatory Support Status at Transplant (%)			
No Support Mechanism	18.2	18.0	22.4
Devices*	63.6	66.4	61.5
Other Support Mechanism	18.2	15.6	15.9
Unknown	0.0	0.0	0.2

\* 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.



REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: July 6, 2022RECIPIENTSBased on Data Available: April 30, 2022

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

## Table C3D. Deceased donor characteristicsTransplants performed between 01/01/2021 and 12/31/2021

	Percentage in each category		
Donor Characteristic	Center (N=22)	Region (N=327)	U.S. (N=3,817)
Cause of Death (%)			
Deceased: Stroke	0.0	14.7	12.8
Deceased: MVA	13.6	16.8	18.0
Deceased: Other	86.4	68.5	69.2
Ethnicity/Race (%)*			
White	59.1	64.5	60.8
African-American	36.4	19.6	17.3
Hispanic/Latino	4.5	13.5	18.4
Asian	0.0	1.5	2.0
Other	0.0	0.9	1.4
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	2.4	2.9
2-11 years	4.5	2.4	3.9
12-17	18.2	6.4	6.9
18-34	68.2	44.0	50.9
35-49 years	9.1	35.8	30.2
50-64 years	0.0	8.9	5.2
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	95.5	68.2	71.7
Female	4.5	31.8	28.3
Blood Type (%)			
0	63.6	49.2	54.3
A	27.3	36.1	33.2
В	9.1	11.3	10.7
AB	0.0	3.4	1.8
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%.



REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Heart<br/>Release Date: July 6, 2022RECIPIENTSBased on Data Available: April 30, 2022

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### **C. Transplant Information**

## Table C4D. Deceased donor transplant characteristicsTransplants performed between 01/01/2021 and 12/31/2021

	Percentage in each category		ategory
Transplant Characteristic	Center (N=22)	Region (N=327)	U.S. (N=3,817)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	8.8	7.7
Deceased: 91-180 min	100.0	76.5	57.2
Deceased: 181-270 min	0.0	14.7	29.5
Deceased: 271-360 min	0.0	0.0	3.8
Deceased: 361+ min	0.0	0.0	1.0
Not Reported	0.0	0.0	0.8
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.3	0.9
Deceased: 91-180 min	14.3	16.7	15.4
Deceased: 181-270 min	85.7	74.1	66.6
Deceased: 271-360 min	0.0	7.8	13.2
Deceased: 361+ min	0.0	0.7	3.3
Not Reported	0.0	0.3	0.5
Procedure Type (%)			
Single organ	81.8	93.3	89.3
Multi organ	18.2	6.7	10.7
Donor Location (%)			
Local Donation Service Area (DSA)	4.5	10.4	20.7
Another Donation Service Area (DSA)	95.5	89.6	79.3
Median Time in Hospital After Transplant	28.0 Days	18.0 Days	18.0 Days



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### C. Transplant Information

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

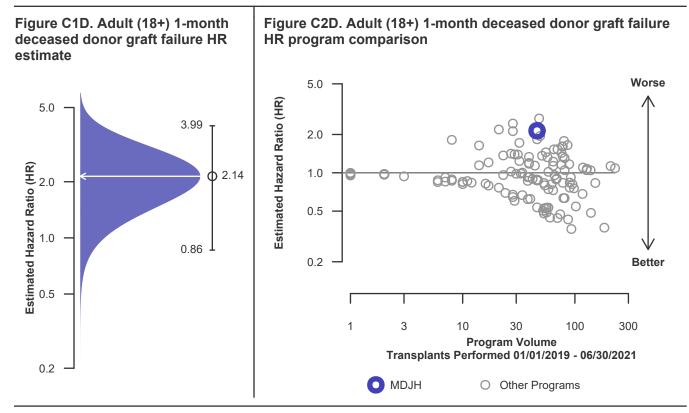
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	46	6,426
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	89.13%	96.47%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.90%	
Number of observed graft failures (including deaths) during the first month after transplant	5	223
Number of expected graft failures (including deaths) during the first month after transplant	1.27	
Estimated hazard ratio*	2.14	
95% credible interval for the hazard ratio**	[0.86, 3.99]	

\* 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, [0.86, 3.99], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 114% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 14% reduced risk up to 299% 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

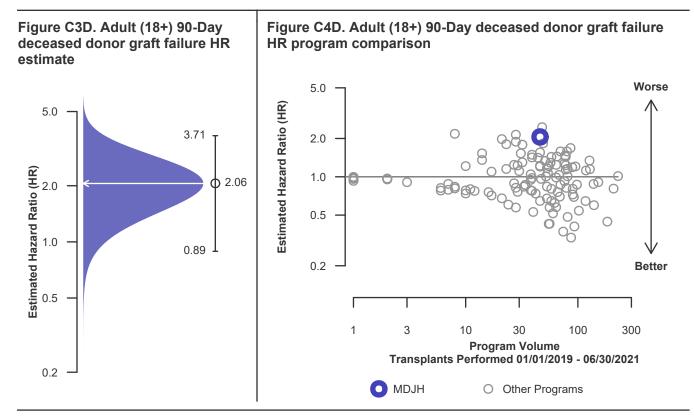
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	46	6,426
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	86.90%	94.63%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.25%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	6	333
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.89	
Estimated hazard ratio*	2.06	
95% credible interval for the hazard ratio**	[0.89, 3.71]	

\* 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, [0.89, 3.71], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 106% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 11% reduced risk up to 271% 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

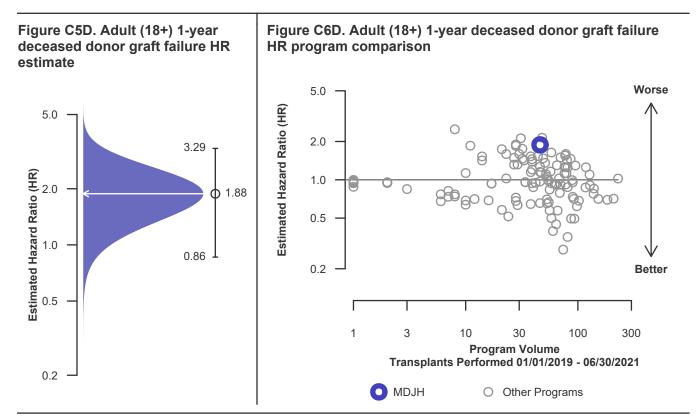
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	46	6,426
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	84.42%	90.76%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.76%	
Number of observed graft failures (including deaths) during the first year after transplant	7	496
Number of expected graft failures (including deaths) during the first year after transplant	2.79	
Estimated hazard ratio*	1.88	
95% credible interval for the hazard ratio**	[0.86, 3.29]	

\* 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, [0.86, 3.29], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 88% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 14% reduced risk up to 229% increased risk.





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### **C. Transplant Information**

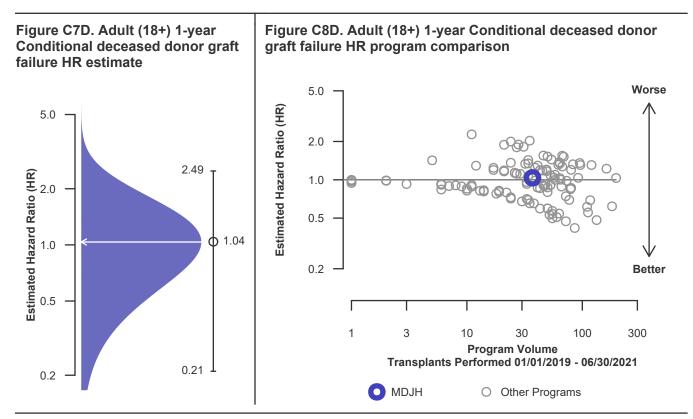
#### Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	37	5,416
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)		95.92%
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)	96.34%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	163
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.90	
Estimated hazard ratio*	1.04	
95% credible interval for the hazard ratio**	[0.21, 2.49]	

\* 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, [0.21, 2.49], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 4% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 79% reduced risk up to 149% increased risk.





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### C. Transplant Information

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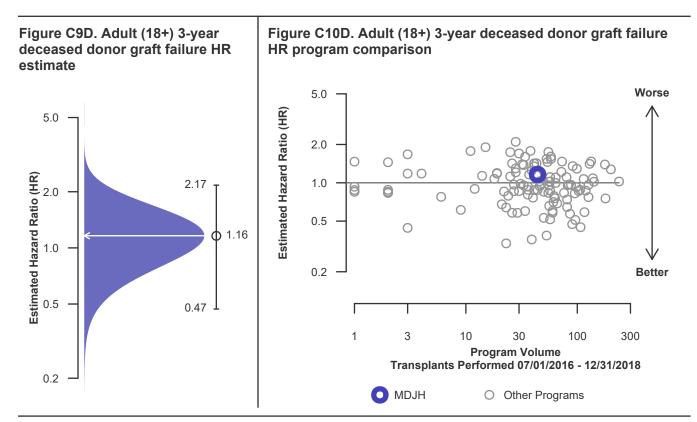
#### Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 07/01/2016 and 12/31/2018 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	44	6,572
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	88.64%	86.15%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.32%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	5	808
Number of expected graft failures (including deaths) during the first 3 years after transplant	4.03	
Estimated hazard ratio*	1.16	
95% credible interval for the hazard ratio**	[0.47, 2.17]	

\* 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, [0.47, 2.17], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 16% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 53% reduced risk up to 117% increased risk.





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### **C. Transplant Information**

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

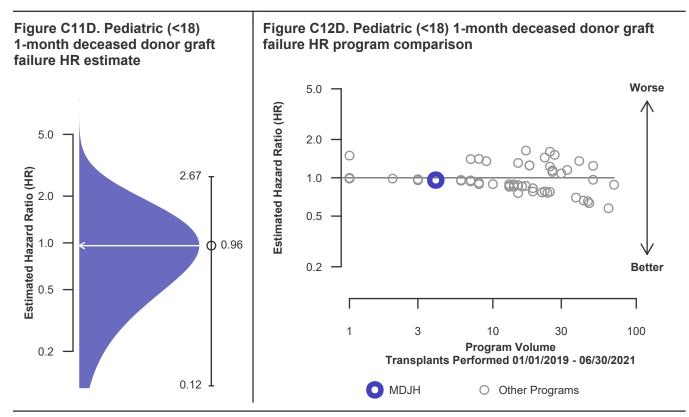
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	4	1,136
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.68%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.90%	
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	0.08	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

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





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### **C. Transplant Information**

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

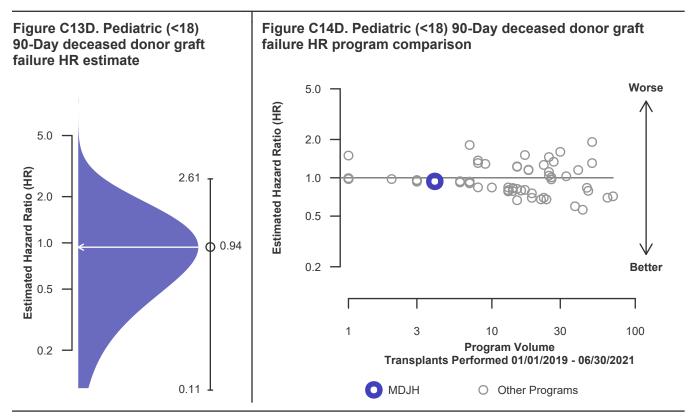
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	4	1,136
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	96.38%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.72%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	40
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.13	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.61]	

\* 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 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, 2.61], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 6% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 161% increased risk.





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### C. Transplant Information

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

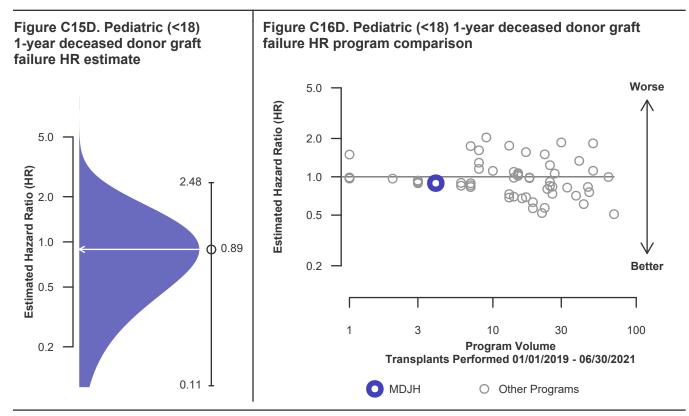
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	4	1,136
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	91.79%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.43%	
Number of observed graft failures (including deaths) during the first year after transplant	0	71
Number of expected graft failures (including deaths) during the first year after transplant	0.24	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.48]	

\* 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, 2.48], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 11% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 148% increased risk.





Center Code: MDJH REGISTRY OF Transplant Program (Organ): Heart TRANSPLANT Release Date: July 6, 2022 RECIPIENTS Based on Data Available: April 30, 2022

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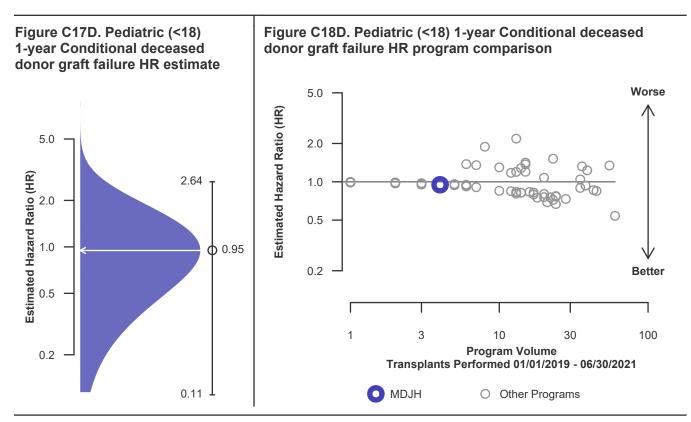
### C. Transplant Information

#### Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020 U.S. MDJH Number of transplants evaluated Δ 989 Estimated probability of surviving with a functioning graft at 1 year, among patients 95.23% 100.00% with a functioning graft at day 90 (unadjusted for patient and donor characteristics) Expected probability of surviving with a functioning graft at 1 year, among patients 95.57% with a functioning graft at day 90 (adjusted for patient and donor characteristics) Number of observed graft failures (including deaths) 0 31 from day 91 through day 365 after transplant Number of expected graft failures (including deaths) 0.11 from day 91 through day 365 after transplant Estimated hazard ratio\* 0.95 95% credible interval for the hazard ratio\*\* [0.11, 2.64]

\* 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, 2.64], 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 89% reduced risk up to 164% 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>

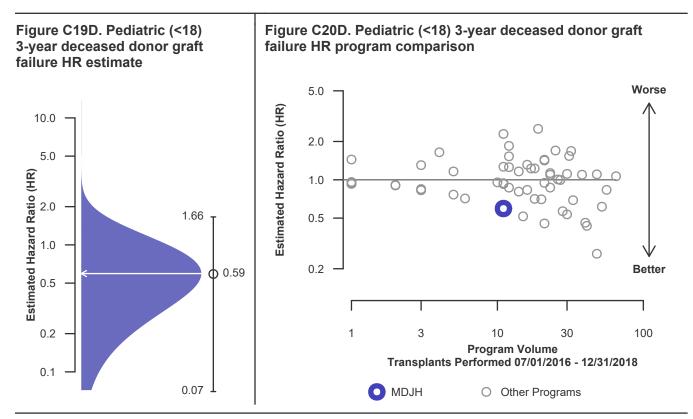
Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	11	1,134
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	86.34%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.35%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	128
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.36	
Estimated hazard ratio*	0.59	
95% credible interval for the hazard ratio**	[0.07, 1.66]	

\* 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, [0.07, 1.66], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 41% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 93% reduced risk up to 66% increased risk.





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### **C. Transplant Information**

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

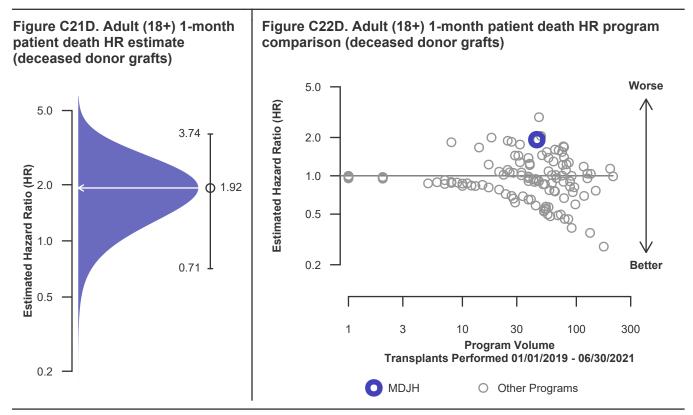
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	45	6,274
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	91.11%	96.87%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.20%	
Number of observed deaths during the first month after transplant	4	193
Number of expected deaths during the first month after transplant	1.12	
Estimated hazard ratio*	1.92	
95% credible interval for the hazard ratio**	[0.71, 3.74]	

\* 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, [0.71, 3.74], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 92% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 29% reduced risk up to 274% increased risk.





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### C. Transplant Information

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

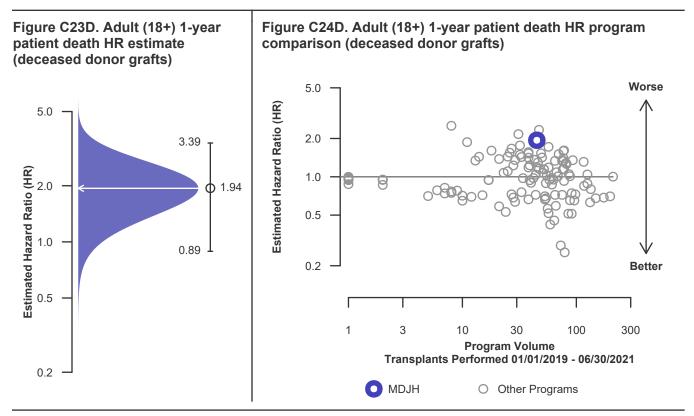
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 **Retransplants excluded** 

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	45	6,274
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	83.95%	91.14%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	91.97%	
Number of observed deaths during the first year after transplant	7	460
Number of expected deaths during the first year after transplant	2.65	
Estimated hazard ratio*	1.94	
95% credible interval for the hazard ratio**	[0.89, 3.39]	

\* 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, [0.89, 3.39], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 94% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 11% reduced risk up to 239% increased risk.





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### C. Transplant Information

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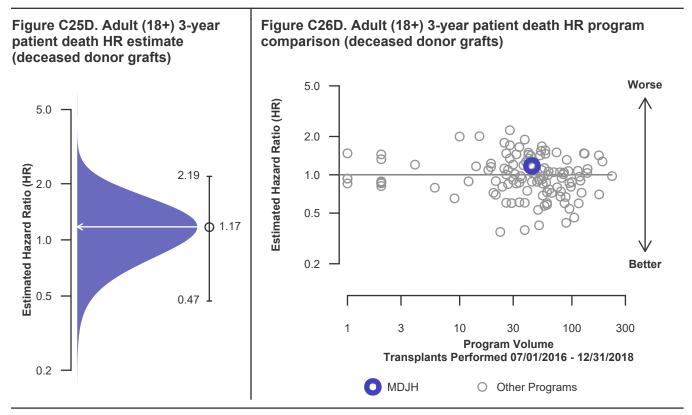
# Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)Single organ transplants performed between 07/01/2016 and 12/31/2018Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	44	6,420
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	88.64%	86.74%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	89.44%	
Number of observed deaths during the first 3 years after transplant	5	755
Number of expected deaths during the first 3 years after transplant	3.96	
Estimated hazard ratio*	1.17	
95% credible interval for the hazard ratio**	[0.47, 2.19]	

\* 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, [0.47, 2.19], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 17% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 53% reduced risk up to 119% increased risk.





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### **C. Transplant Information**

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

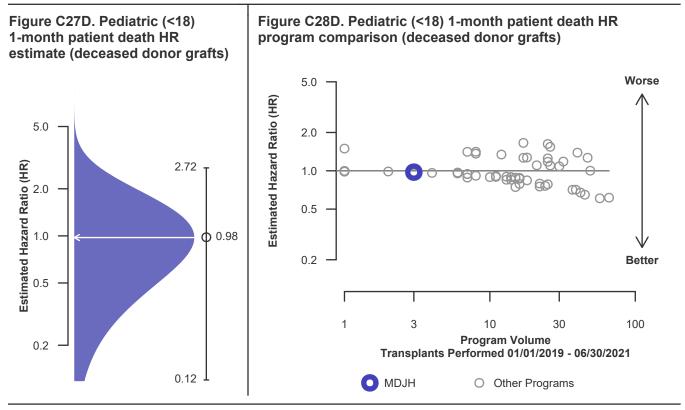
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	3	1,084
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.76%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.36%	
Number of observed deaths during the first month after transplant	0	24
Number of expected deaths during the first month after transplant	0.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

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





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### C. Transplant Information

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

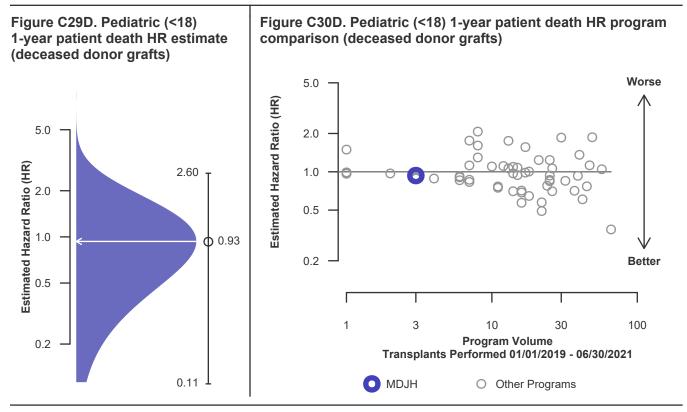
Single organ transplants performed between 01/01/2019 and 03/12/2020, and 06/13/2020 and 06/30/2021 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	3	1,084
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	91.57%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.66%	
Number of observed deaths during the first year after transplant	0	69
Number of expected deaths during the first year 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 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, 2.60], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 7% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 160% increased risk.





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

Single organ transplants performed between 07/01/2016 and 12/31/2018

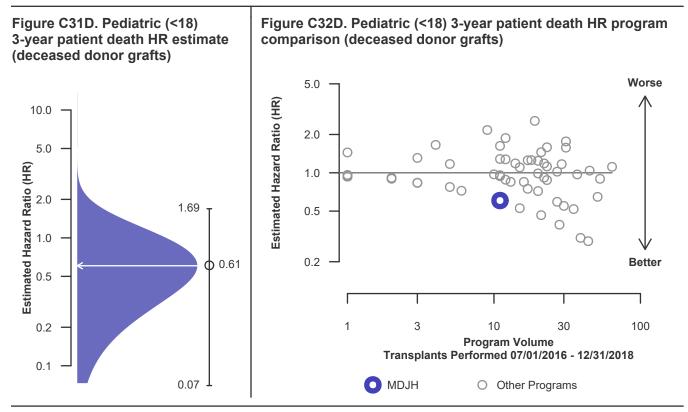
Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	11	1,090
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	86.81%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	86.82%	
Number of observed deaths during the first 3 years after transplant	0	118
Number of expected deaths during the first 3 years after transplant	1.30	
Estimated hazard ratio*	0.61	
95% credible interval for the hazard ratio**	[0.07, 1.69]	

\* 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, [0.07, 1.69], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 39% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 93% reduced risk up to 69% increased risk.





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### **C. Transplant Information**

#### Table C21. Multi-organ transplant graft survival: 01/01/2019 - 06/30/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Performed Graft		Hea Graft Fa MDJH-TX1			
Kidney-Heart Liver-Heart	5 2	676 106	0 0	80 13	100.0% 100.0%	87.7% 87.5%

#### Pediatric (<18) Transplants

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

#### Table C22. Multi-organ transplant patient survival: 01/01/2019 - 06/30/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type				Patient Deaths MDJH-TX1 USA		ated urvival USA
Kidney-Heart Liver-Heart	5 2	676 106	0 0	80 13	100.0% 100.0%	87.7% 87.3%

#### Pediatric (<18) Transplants

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