

SCIENTIFIC REGISTRY OF

Johns Hopkins Hospital

Center Code: MDJH Transplant Program (Organ): Liver TRANSPLANT Release Date: January 9, 2024 RECIPIENTS Based on Data Available: October 31, 2023

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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, July 2022, January 2023 and July 2023. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the January 2024 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 2024 reporting cycle. These changes will remain in force beyond the January 2024 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 7/1/2020-12/31/2022, follow-up through 6/30/2023.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2018-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-6/30/2020; follow-up through 6/30/2023.

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

Days after listing (and before transplant) between 7/1/2021 and 6/30/2023.



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

Candidates on the waitlist 7/1/2021-6/30/2023.

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

Evaluation period: 7/1/2021-6/30/2023.

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

Offers received 7/1/2022-6/30/2023.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 9, 2024. 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 2024.

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



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This report contains a wide range of useful information about the liver 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 transplant rate at this program was 38.3 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. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). 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 07/01/2017 and 12/31/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.1 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2023 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

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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of offers.

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

Starting with Table C5, transplant outcomes are presented along with comparisons to what would be expected at this program and what happened in the nation as a whole. Tables C5-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.

Table D1 shows the rates of follow-up for living donors.

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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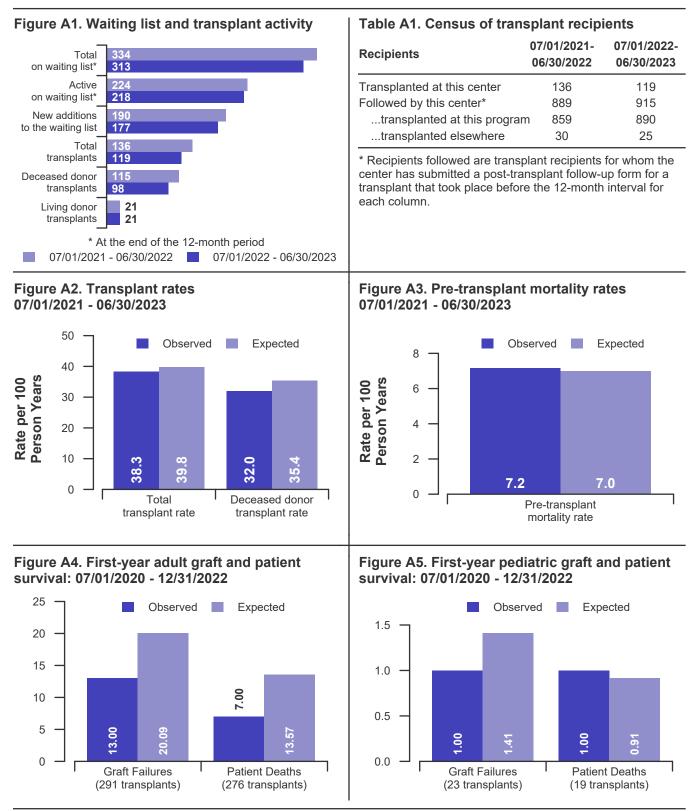
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A. Program Summary





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B. Waiting List Information

Table B1. Waiting list activity summary: 07/01/2021 - 06/30/2023

		ts for enter	Activity for 07/01/2022 to 06/30/2023 as percent of registrants on waiting lis on 07/01/2022			
Waiting List Registrations	07/01/2021- 06/30/2022	07/01/2022- 06/30/2023	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	346	334	100.0	100.0	100.0	
New listings at this center	190	177	53.0	98.8	122.0	
Removals						
Transferred to another center	1	3	0.9	1.2	1.2	
Received living donor transplant*	21	21	6.3	10.3	5.6	
Received deceased donor transplant*	115	98	29.3	58.5	83.2	
Died	25	16	4.8	8.6	8.4	
Transplanted at another center	5	8	2.4	3.8	2.9	
Deteriorated	13	13	3.9	9.9	9.4	
Recovered	0	13	3.9	8.1	10.2	
Other reasons	22	26	7.8	10.9	10.4	
On waiting list at end of period	334	313	93.7	87.4	90.8	

* 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 07/01/2022 and 06/30/2023

Domographic Characteristic		iting List Reg 022 to 06/30/2		All Waiting List Registrations on 06/30/2023 (%)			
Demographic Characteristic	This Center (N=177)	OPTN Region (N=1,532)	U.S. (N=13,953)	This Center (N=313)	OPTN Region (N=1,355)	U.S. (N=10,382)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	75.1	74.3	68.3	76.4	75.4	65.8	
African-American	13.6	12.1	7.1	15.7	12.6	7.2	
Hispanic/Latino	5.1	8.2	18.3	4.8	7.9	20.0	
Asian	6.2	4.5	4.1	3.2	3.5	5.1	
Other	0.0	0.9	2.1	0.0	0.6	1.9	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	1.7	2.8	2.4	0.3	0.9	1.5	
2-11 years	2.3	2.2	1.6	1.6	1.7	1.6	
12-17 years	0.0	0.8	1.2	0.6	1.2	1.2	
18-34 years	6.2	6.8	7.1	10.2	6.9	6.6	
35-49 years	27.7	21.9	21.7	23.0	19.5	19.7	
50-64 years	41.8	46.0	44.7	54.3	51.7	48.3	
65-69 years	16.4	14.0	15.4	8.6	13.4	16.1	
70+ years	4.0	5.4	5.8	1.3	4.7	5.1	
Gender (%)							
Male	62.1	62.9	61.0	51.8	60.5	59.9	
Female	37.9	37.1	39.0	48.2	39.5	40.1	

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



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B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2022 and 06/30/2023

Medical Characteristic	07/01/2	ting List Reg 022 to 06/30/2	2023 (%)	All Waiting List Registrations on 06/30/2023 (%)			
	This Center (N=177)	OPTN Region (N=1,532)	U.S. (N=13,953)	This Center (N=313)	OPTN Region (N=1,355)	U.S. (N=10,382)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	43.5	43.6	46.6	45.7	46.8	49.7	
A	44.1	40.0	37.9	39.0	38.7	39.2	
В	10.7	12.7	11.4	13.1	12.2	9.3	
AB	1.7	3.7	4.0	2.2	2.3	1.8	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	6.2	3.8	4.1	3.5	3.3	3.6	
No	93.8	96.2	95.9	96.5	96.7	96.4	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	0.0	3.1	2.7	1.3	1.3	1.3	
Non-Cholestatic Cirrhosis	24.9	31.1	36.0	63.6	55.5	55.1	
Cholestatic Liver Disease/Cirrhosis	9.0	6.6	6.1	10.2	8.8	7.9	
Biliary Atresia	3.4	2.0	2.2	1.6	1.3	2.0	
Metabolic Diseases	0.6	2.2	1.7	1.3	1.8	1.3	
Malignant Neoplasms	11.3	11.4	9.9	6.1	10.2	10.5	
Other	50.8	43.6	41.2	16.0	21.0	21.6	
Missing	0.0	0.1	0.2	0.0	0.1	0.2	
Medical Urgency Status/MELD/PEL	.D at Listing	(%)*					
Status 1A	1.7	3.0	2.7	0.0	0.1	0.3	
Status 1B	0.0	0.4	0.4	0.0	0.1	0.1	
Status 2A	0.0	0.0	0.0	0.0	0.0	0.0	
Status 2B	0.0	0.0	0.0	0.0	0.1	0.0	
Status 3	0.0	0.0	0.0	0.0	0.0	0.1	
MELD 6-10	22.0	14.1	13.8	46.3	32.7	26.0	
MELD 11-14	15.8	12.4	11.7	23.6	22.4	21.8	
MELD 15-20	25.4	18.5	20.8	20.1	23.4	27.7	
MELD 21-30	19.2	21.5	24.7	7.3	11.6	14.7	
MELD 31-40	7.9	14.9	14.1	0.6	1.3	1.1	
PELD less than or equal to 10	1.7	1.9	1.6	1.3	1.5	1.9	
PELD 11-14	1.1	0.5	0.4	0.3	0.4	0.3	
PELD 15-20	0.0	0.4	0.4	0.0	0.2	0.3	
PELD 21-30	0.6	0.5	0.4	0.0	0.1	0.2	
PELD 31 or greater	0.0	0.2	0.1	0.3	0.1	0.0	
Temporarily Inactive	0.0	6.9	5.0	0.0	6.0	5.6	

* MELD/PELD score based on laboratory measures is shown for listings beginning 2/27/2002 unless patient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005.

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B. Waiting List Information

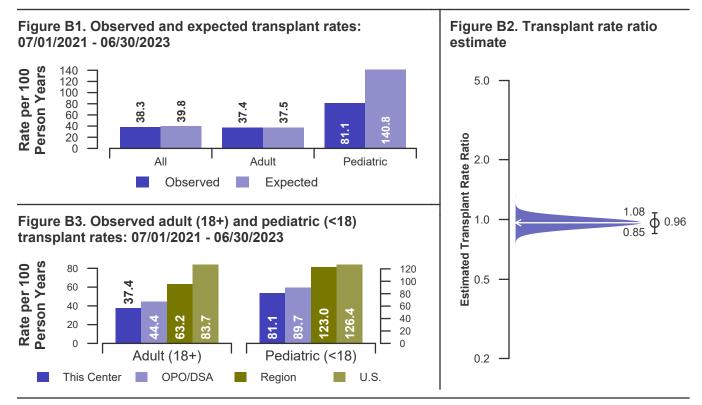
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Table B4. Transplant rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	346	851	1,610	12,005
Person Years**	665.3	1,564.8	3,063.1	22,624.2
Removals for Transplant	255	720	2,005	19,300
Adult (18+) Candidates				
Count on waiting list at start*	341	830	1,553	11,621
Person Years**	650.5	1,508.0	2,945.2	21,779.5
Removals for transpant	243	669	1,860	18,232
Pediatric (<18) Candidates				
Count on waiting list at start*	5	21	57	384
Person Years**	14.8	56.8	117.9	844.7
Removals for transplant	12	51	145	1,068

* 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

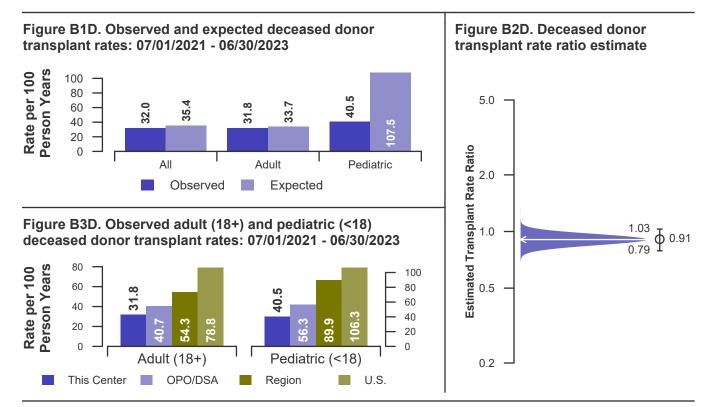
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Table B4D. Deceased donor transplant rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	346	851	1,610	12,005
Person Years**	665.3	1,564.8	3,063.1	22,624.2
Removals for Transplant	213	645	1,705	18,070
Adult (18+) Candidates				
Count on waiting list at start*	341	830	1,553	11,621
Person Years**	650.5	1,508.0	2,945.2	21,779.5
Removals for transpant	207	613	1,599	17,172
Pediatric (<18) Candidates				
Count on waiting list at start*	5	21	57	384
Person Years**	14.8	56.8	117.9	844.7
Removals for transplant	6	32	106	898

* 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

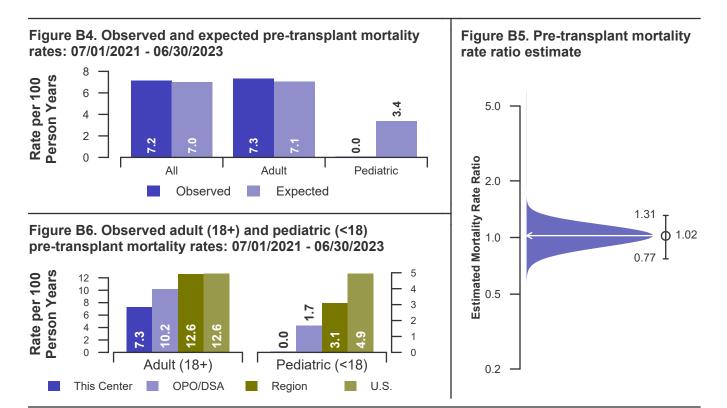
RECIPIENTS

Table B5. Pre-transplant mortality rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	346	851	1,610	12,005
Person Years**	726.7	1,745.8	3,578.2	26,552.0
Number of deaths	52	173	438	3,283
Adult (18+) Candidates				
Count on waiting list at start*	341	830	1,553	11,621
Person Years**	711.9	1,686.3	3,449.3	25,619.2
Number of deaths	52	172	434	3,237
Pediatric (<18) Candidates				
Count on waiting list at start*	5	21	57	384
Person Years**	14.8	59.6	128.9	932.7
Number of deaths	0	1	4	46

* 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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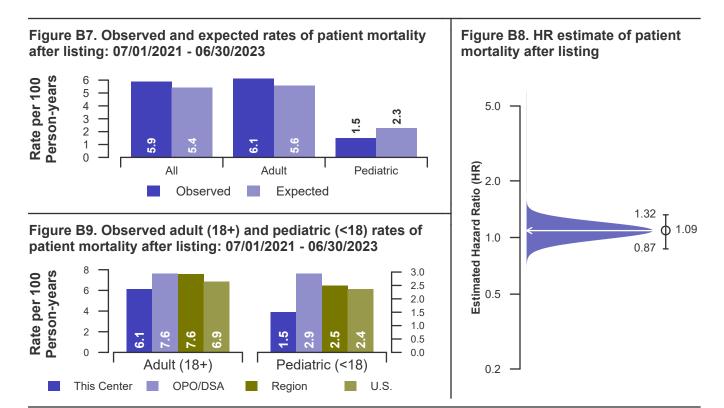
RECIPIENTS

Table B6. Rates of patient mortality after listing: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	1,099	3,238	9,053	78,939
Person-years*	1,493.2	4,253.7	12,058.7	105,820.4
Number of Deaths	88	309	872	6,996
Adult (18+) Patients				
Count at risk during the evaluation period	1,056	3,017	8,472	74,524
Person-years*	1,426.5	3,946.9	11,258.7	99,827.4
Number of Deaths	87	300	852	6,854
Pediatric (<18) Patients				
Count at risk during the evaluation period	43	221	581	4,415
Person-years*	66.7	306.9	800.0	5,993.1
Number of Deaths	1	9	20	142

* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2021, or from the date of first wait listing until death, reaching 5 years after listing or June 30, 2023.

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

Waiting list status (survival status)		Center (N ns Since L 12	,	U.S. (N=13,840) Months Since Listing 6 12 18		
Alive on waiting list (%)	47.5	33.1	28.7	38.2	22.5	15.0
Died on the waiting list without transplant (%)	3.3	4.4	5.5	4.3	5.7	6.3
Removed without transplant (%):	0.0		0.0		•	0.0
Condition worsened (status unknown)	0.6	1.1	1.7	4.1	5.8	6.5
Condition improved (status unknown)	0.0	0.0	0.0	1.4	2.4	3.5
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.4	0.4
Other	0.0	0.0	1.7	1.8	3.0	4.0
Transplant (living donor from waiting list only) (%)	:					
Functioning (alive)	4.4	8.3	7.2	2.7	3.4	2.2
Failed-Retransplanted (alive)	0.0	0.6	0.6	0.0	0.1	0.1
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.1	0.2	0.2
Status Yet Unknown**	0.0	0.0	1.1	0.0	0.1	1.5
Transplant (deceased donor) (%):						
Functioning (alive)	43.6	50.8	27.6	43.1	47.6	34.9
Failed-Retransplanted (alive)	0.0	0.0	0.6	0.4	0.5	0.6
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	1.1	2.8	2.0	3.1	4.1
Status Yet Unknown*	0.6	0.6	22.7	1.6	5.1	20.1
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.4	0.5
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	3.3	5.5	8.3	6.4	9.0	10.5
Total % known died or removed as unstable	3.9	6.6	9.9	10.5	14.7	17.1
Total % removed for transplant	48.6	61.3	62.4	49.9	60.0	63.7
Total % with known functioning transplant (alive)	48.1	59.1	34.8	45.8	50.9	37.1

* 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 B7S1. Medical urgency status 1 candidate status after listingCandidates registered on the waiting list between 01/01/2021 and 12/31/2021

Waiting list status (survival status)		s Center (I hs Since I 12	,	U.S. (N=439) Months Since listing 6 12 18		
Alive on waiting list (%)	0.0	0.0	0.0	2.5	1.4	0.9
Died on the waiting list without transplant (%)	0.0	0.0	0.0	7.3	7.3	7.3
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	5.2	5.2	5.2
Condition improved (status unknown)	0.0	0.0	0.0	16.9	18.0	18.5
Refused transplant (status unknown)	0.0	0.0	0.0	0.7	0.7	0.7
Other	0.0	0.0	0.0	0.5	0.5	0.5
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	1.1	0.9	0.5
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.2	0.2	0.2
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.2	0.7
Transplant (deceased donor) (%):						
Functioning (alive)	100.0	100.0	50.0	57.2	49.9	37.1
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.9	0.9	0.9
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	5.7	6.8	7.7
Status Yet Unknown*	0.0	0.0	50.0	1.4	7.5	19.4
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.5	0.5	0.5
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	0.0	0.0	13.2	14.4	15.3
Total % known died or removed as unstable	0.0	0.0	0.0	18.5	19.6	20.5
Total % removed for transplant	100.0	100.0	100.0	66.5	66.5	66.5
Total % with known functioning transplant (alive)	100.0	100.0	50.0	58.3	50.8	37.6

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



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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2017 and 06/30/2020

Characteristic		Percent transplanted at time periods since listing This Center United States								
	Ν			2 years	3 years	s N				3 years
All	502	17.1	44.0	50.0	52.6	38,168	22.4	52.0	58.3	60.0
Ethnicity/Race*										
White	387	17.3	42.9	49.1	51.4	26,141	22.6	52.8	58.7	60.3
African-American	68	10.3	44.1	48.5	54.4	3,023	25.5	55.5	61.8	63.5
Hispanic/Latino	28	25.0	53.6	60.7	60.7	6,536	20.6	48.7	56.0	58.0
Asian	19	26.3	52.6	57.9	57.9	1,791	19.9	46.6	55.1	57.8
Other	0					677	25.7	52.4	58.5	60.3
Unknown	0					0				
Age										
<2 years	3	66.7	66.7	66.7	66.7	831	22.1	72.7	75.7	76.7
2-11 years	8	25.0	87.5	87.5	87.5	641	25.9	68.6	74.1	75.7
12-17 years	6	16.7	66.7	66.7	66.7	433	19.2	56.4	63.7	65.6
18-34 years	29	24.1	58.6	65.5	69.0	2,308	33.2	54.1	58.7	60.3
35-49 years	101	24.8	44.6	51.5	54.5	6,708	32.4	56.3	61.1	62.6
50-64 years	272	15.8	41.5	46.7	48.9	18,964	20.7	51.0	57.5	59.4
65-69 years	69	4.3	37.7	46.4	50.7	6,438	14.9	47.0	54.6	56.6
70+ years	14	21.4	50.0	57.1	57.1	1,845	15.6	46.8	53.6	54.4
Gender										
Male	307	18.9	47.9	53.1	56.4	23,781	22.3	53.3	59.6	61.4
Female	195	14.4	37.9	45.1	46.7	14,387	22.5	50.0	56.1	57.8

* 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 07/01/2017 and 06/30/2020

Characteristic		Th	nis Cent	er		time per	Un	ited Sta	tes	
	Ν	30 day	1 year	2 years	3 years	5 N	30 day	1 year	2 years	3 years
All	502	17.1	44.0	50.0	52.6	38,168	22.4	52.0	58.3	60.0
Blood Type										
0	212	12.7	42.0	47.6	50.9	17,829	21.0	49.5	56.1	58.0
A	202	19.8	41.6	49.5	52.0	14,209	21.6	50.4	56.9	58.8
В	67	17.9	47.8	50.7	52.2	4,647	25.8	60.3	65.4	66.8
AB	21	33.3	76.2	76.2	76.2	1,483	35.8	71.9	75.0	75.7
Previous Transplant										
Yes	25	28.0	52.0	52.0	52.0	1,858	30.4	53.6	58.2	59.4
No	477	16.6	43.6	49.9	52.6	36,310	22.0	52.0	58.3	60.1
Primary Disease										
Acute Hepatic Necrosis	27	70.4	77.8	77.8	77.8	1,710	53.9	63.2	65.3	66.0
Non-Cholestatic Cirrhosis	325	16.0	38.2	44.3	47.7	25,258	23.6	51.5	57.1	58.9
Cholestatic Liver	33	9.1	36.4	51.5	51.5	2,523	18.0	50.4	58.3	60.4
Disease/Cirrhosis				51.5						
Biliary Atresia	7	14.3	71.4	71.4	71.4	753	15.5	65.3	70.9	73.0
Metabolic Diseases	10	10.0	60.0	60.0	60.0	882	26.3	68.8	74.3	75.9
Malignant Neoplasms	78	2.6	52.6	56.4	59.0	4,895	7.8	47.4	57.2	59.1
Other	22	36.4	54.5	63.6	63.6	2,131	22.5	50.9	58.2	60.2
Missing	0					16	25.0	31.2	37.5	37.5
Medical Urgency Status/MELD/		at Listing	g*							
Status 1	0					0				
Status 1A	8	87.5	87.5	87.5	87.5	1,173	60.1	60.4	60.6	60.7
Status 1B	3	66.7	66.7	66.7	66.7	136	50.7	83.1	83.1	83.1
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	155	0.6	25.2	32.3	32.9	7,199	2.5	37.5	48.6	51.4
MELD 11-14	80	1.2	27.5	40.0	46.2	5,050	3.0	33.2	43.4	46.4
MELD 15-20	85	5.9	34.1	41.2	47.1	8,079	9.6	45.5	53.1	55.3
MELD 21-30	102	29.4	64.7	66.7	68.6	8,666	29.2	62.5	65.9	67.0
MELD 31-40	51	68.6	82.4	82.4	82.4	4,155	71.8	80.3	80.5	80.6
PELD less than or equal to 10	6	16.7	100.0	100.0	100.0	678	10.5	70.4	77.1	79.5
PELD 11-14	0					97	17.5	77.3	83.5	83.5
PELD 15-20	0					166	21.7	76.5	78.3	78.9
PELD 21-30	1	0.0	0.0	0.0	0.0	127	26.0	76.4	78.0	78.0
PELD 31 or greater	0					36	44.4	72.2	72.2	72.2
Temporarily Inactive	11	36.4	72.7	81.8	81.8	2,606	37.7	55.1	58.6	59.6

* MELD/PELD score based on laboratory measures is shown for listings beginning 2/27/2002 unless patient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005.



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B. Waiting List Information

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Table B10. Time to transplant for waiting list candidates*Candidates registered on the waiting list between 07/01/2017 and 12/31/2022

	Months to Transplant**			
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.1	0.1	0.1	0.1
10th	0.2	0.2	0.2	0.2
25th	1.4	1.0	1.0	0.8
50th (median time to transplant)	9.6	9.3	8.5	7.1
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 06/30/2023. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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Table B11. Offer Acceptance Practices: 07/01/2022 - 06/30/2023

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	9,386	23,678	50,295	321,191
Number of Acceptances	91	274	811	8,403
Expected Acceptances	122.0	379.5	1,105.1	8,403.0
Offer Acceptance Ratio*	0.75	0.72	0.73	1.00
95% Credible Interval**	[0.61, 0.91]			
PHS increased infectious risk				
Number of Offers	1,203	3,194	7,149	48,437
Number of Acceptances	17	47	148	1,533
Expected Acceptances	22.9	68.1	195.4	1,532.3
Offer Acceptance Ratio*	0.76	0.70	0.76	1.00
95% Credible Interval**	[0.46, 1.14]			
DCD donor				
Number of Offers	4,149	9,656	15,308	104,855
Number of Acceptances	9	20	48	1,143
Expected Acceptances	16.8	44.8	111.4	1,145.0
Offer Acceptance Ratio*	0.58	0.47	0.44	1.00
95% Credible Interval**	[0.29, 0.98]			
HCV+ donor				
Number of Offers	199	674	1,533	12,160
Number of Acceptances	5	11	30	377
Expected Acceptances	6.3	20.6	50.8	378.7
Offer Acceptance Ratio*	0.84	0.58	0.61	1.00
95% Credible Interval**	[0.34, 1.57]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	7,510	17,561	33,026	199,737
Number of Acceptances	7	36	104	1,219
Expected Acceptances	25.4	73.3	205.6	1,304.3
Offer Acceptance Ratio*	0.33	0.50	0.51	0.93
95% Credible Interval**	[0.15, 0.58]			
Donor more than 500 miles away				
Number of Offers	3,110	7,780	12,927	104,279
Number of Acceptances	6	20	65	1,002
Expected Acceptances	14.2	50.6	108.9	965.9
Offer Acceptance Ratio*	0.50	0.42	0.60	1.04
95% Credible Interval**	[0.21, 0.89]			

* 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 accepts more offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a center accepts 25% more offers than is expected based on national offer acceptance practices), while a ratio below one indicates the program accepts fewer offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a center accepts 25% fewer offers than is expected based on national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a center accepts 25% fewer offers than is expected based on national offer acceptance practices).

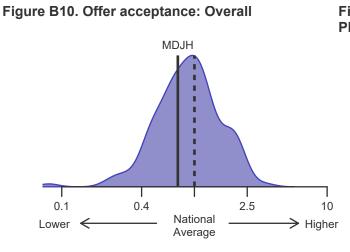
** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.61, 0.91], indicates the location of MDJH's true offer acceptance ratio with 95% probability. The best estimate is 25% less likely to accept an offer compared to nationalacceptance behavior, but MDJH's performance could plausibly range from 39% reduced acceptance up to 9%

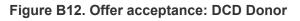


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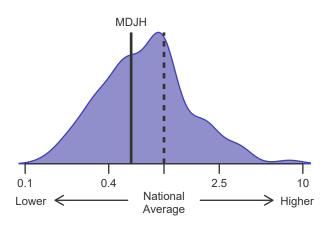
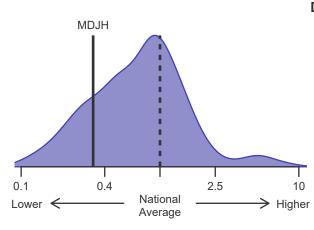


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance:



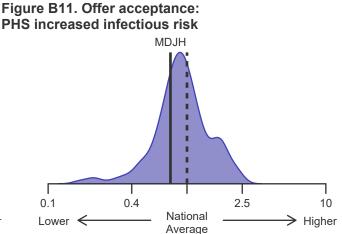
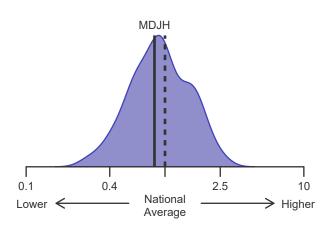
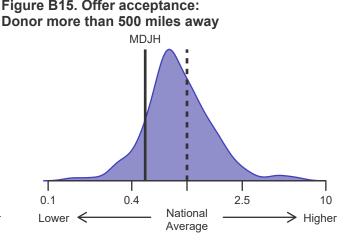


Figure B13. Offer acceptance: HCV+ Donor







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C. Transplant Information

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Table C1D. Deceased donor transplant recipient demographic characteristicsPatients transplanted between 07/01/2022 and 06/30/2023

Characteristic	Perce	Percentage in each category		
	Center (N=98)	Region (N=907)	U.S. (N=9,518)	
Ethnicity/Race (%)*				
White	76.5	70.8	68.5	
African-American	13.3	14.1	7.4	
Hispanic/Latino	3.1	9.3	18.1	
Asian	7.1	5.1	4.2	
Other	0.0	0.8	1.8	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	1.0	2.9	1.9	
2-11 years	0.0	2.2	1.6	
12-17	0.0	0.6	1.2	
18-34	4.1	6.5	7.0	
35-49 years	22.4	21.2	21.7	
50-64 years	46.9	45.9	45.7	
65-69 years	17.3	14.6	14.7	
70+ years	8.2	6.3	6.3	
Gender (%)				
Male	69.4	64.5	63.4	
Female	30.6	35.5	36.6	

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



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C. Transplant Information

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Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 07/01/2022 and 06/30/2023

Characteristic	Perce	Percentage in each category		
	Center (N=21)	Region (N=160)	U.S. (N=635)	
Ethnicity/Race (%)*				
White	71.4	88.1	74.3	
African-American	14.3	6.2	4.3	
Hispanic/Latino	9.5	3.1	15.7	
Asian	4.8	2.5	4.4	
Other	0.0	0.0	1.3	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	9.5	6.9	8.5	
2-11 years	4.8	4.4	4.1	
12-17	0.0	0.0	0.5	
18-34	14.3	10.6	11.3	
35-49 years	38.1	19.4	17.6	
50-64 years	23.8	38.1	37.8	
65-69 years	9.5	14.4	13.4	
70+ years	0.0	6.2	6.8	
Gender (%)				
Male	52.4	60.0	51.0	
Female	47.6	40.0	49.0	

* 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

RECIPIENTS

Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2022 and 06/30/2023

	Percentage in each category		
Characteristic	Center (N=98)	Region (N=907)	Ú.S. (N=9,518)
Blood Type (%)			
0	40.8	44.4	46.0
A	40.8	36.1	35.9
В	16.3	14.4	13.0
AB	2.0	5.1	5.1
Previous Transplant (%)			
Yes	5.1	3.6	3.9
No	94.9	96.4	96.1
Body Mass Index (%)			
0-20	8.2	11.5	11.1
21-25	33.7	24.1	26.0
26-30	31.6	31.1	30.2
31-35	16.3	18.4	18.7
36-40	2.0	7.5	8.3
41+	7.1	4.2	4.1
Unknown	1.0	3.2	1.7
Primary Disease (%)		0.2	
Acute Hepatic Necrosis	1.0	3.7	2.6
Non-Cholestatic Cirrhosis	18.4	27.6	33.4
Cholestatic Liver Disease/Cirrhosis	5.1	3.6	5.7
Biliary Atresia	3.1	1.8	1.9
Metabolic Diseases	3.1	3.3	2.4
Malignant Neoplasms	14.3	13.9	11.7
Other	55.1	46.1	42.2
Missing	0.0	0.0	0.1
Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0.1
Status 1A	2.0	3.2	2.6
Status 18	0.0	1.7	1.2
MELD 6-10	17.3	10.3	9.7
MELD 0-10 MELD 11-14	8.2	6.7	9.7 7.5
	13.3		
MELD 15-20		13.8	15.7
MELD 21-30	34.7	27.3	30.8
MELD 31-40	17.3	27.6	23.7
PELD less than or equal to 10	0.0	1.5	1.1
PELD 11-14	0.0	0.0	0.1
PELD 15-20	0.0	0.2	0.3
PELD 21-30	0.0	0.2	0.4
PELD 31 or greater	1.0	0.3	0.2
Temporarily Inactive	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	59.2	57.9	59.0
Hospitalized	22.4	27.5	24.9
ICU	18.4	14.7	15.9
Unknown	0.0	0.0	0.3

* MELD/PELD score based on laboratory measures at the time of transplant is shown unless recipient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005

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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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 07/01/2022 and 06/30/2023

	Percentage in each category		
Characteristic	Center (N=21)	Region (N=160)	U.S. (N=635)
Blood Type (%)			
0	38.1	40.6	45.4
A	61.9	48.8	41.7
В	0.0	8.1	10.6
AB	0.0	2.5	2.4
Previous Transplant (%)			
Yes	0.0	1.9	1.7
No	100.0	98.1	98.3
Body Mass Index (%)			
0-20	28.6	21.2	21.3
21-25	33.3	26.2	31.2
26-30	23.8	30.6	26.1
31-35	9.5	15.0	14.8
36-40	4.8	3.8	4.7
41+	0.0	3.1	1.7
Unknown	0.0	0.0	0.2
Primary Disease (%)	0.0	0.0	0.2
	0.0	0.0	1.3
Acute Hepatic Necrosis	0.0	0.0	
Non-Cholestatic Cirrhosis	19.0	28.8	33.4
Cholestatic Liver Disease/Cirrhosis	33.3	24.4	22.4
Biliary Atresia	14.3	8.1	10.9
Metabolic Diseases	0.0	3.1	1.7
Malignant Neoplasms	9.5	20.0	11.5
Other	23.8	15.6	18.9
Missing	0.0	0.0	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	4.8	0.6	1.1
Status 1B	0.0	1.9	1.3
MELD 6-10	47.6	30.0	26.6
MELD 11-14	4.8	13.8	18.1
MELD 15-20	33.3	26.9	27.6
MELD 21-30	0.0	16.2	12.3
MELD 31-40	0.0	1.9	0.6
PELD less than or equal to 10	4.8	4.4	4.4
PELD 11-14	0.0	0.0	1.3
PELD 15-20	4.8	3.8	2.5
PELD 21-30	0.0	0.0	1.1
PELD 31 or greater	0.0	0.6	1.3
Temporarily Inactive	0.0	0.0	1.9
Recipient Medical Condition at Transplant (%)	0.0	0.0	
Not Hospitalized	90.5	95.0	88.0
Hospitalized	9.5	4.4	9.1
ICU	0.0	0.6	2.8
Unknown	0.0	0.0	0.0
Unknown	0.0	0.0	0.0

* MELD/PELD score based on laboratory measures at the time of transplant is shown unless recipient is Status 1 or Temporarily Inactive. MELD/PELD scores based on exception rules are not used. Status 1 separated into 1A and 1B in August 2005

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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C. Transplant Information

TRANSPLANT

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Table C3D. Deceased donor characteristicsTransplants performed between 07/01/2022 and 06/30/2023

	Perce	Percentage in each category		
Donor Characteristic	Center (N=98)	Region (N=907)	U.S. (N=9,518)	
Cause of Death (%)				
Deceased: Stroke	25.5	25.9	24.8	
Deceased: MVA	5.1	9.5	12.1	
Deceased: Other	69.4	64.6	63.1	
Ethnicity/Race (%)*				
White	61.2	59.6	52.4	
African-American	20.4	21.7	19.0	
Hispanic/Latino	1.0	5.5	9.5	
Asian	6.1	2.6	2.9	
Other	0.0	0.3	1.2	
Not Reported	11.2	10.1	15.0	
Age (%)				
<2 years	0.0	1.1	0.9	
2-11 years	0.0	3.1	2.0	
12-17	3.1	4.1	4.4	
18-34	27.6	28.2	30.3	
35-49 years	19.4	25.2	29.8	
50-64 years	38.8	27.9	24.5	
65-69 years	6.1	5.6	4.7	
70+ years	5.1	4.7	3.4	
Gender (%)				
Male	67.3	60.2	61.9	
Female	32.7	39.8	38.1	
Blood Type (%)				
0	42.9	49.0	49.6	
A	39.8	36.6	36.5	
В	15.3	11.4	11.1	
AB	2.0	3.1	2.7	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C3L. Living donor characteristicsTransplants performed between 07/01/2022 and 06/30/2023

	Perce	Percentage in each category		
Donor Characteristic	Center (N=21)	Region (N=160)	U.S. (N=635)	
Ethnicity/Race (%)*				
White	76.2	88.8	74.0	
African-American	9.5	2.5	3.1	
Hispanic/Latino	4.8	1.9	4.3	
Asian	4.8	4.4	4.1	
Other	0.0	0.0	1.3	
Not Reported	4.8	2.5	13.2	
Age (%)				
0-11 years	0.0	0.0	0.2	
12-17	0.0	0.0	0.0	
18-34	33.3	36.9	42.5	
35-49 years	42.9	46.9	42.4	
50-64 years	23.8	16.2	14.6	
65-69 years	0.0	0.0	0.3	
70+ years	0.0	0.0	0.0	
Gender (%)				
Male	52.4	39.4	40.3	
Female	47.6	60.6	59.7	
Blood Type (%)				
0	57.1	61.2	64.6	
A	42.9	33.1	29.4	
В	0.0	5.0	5.2	
AB	0.0	0.6	0.8	
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%.



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C. Transplant Information

Table C4D. Deceased donor transplant characteristics Transplants performed between 07/01/2022 and 06/30/2023

	Percentage in each category		
Transplant Characteristic	Center (N=98)	Region (N=907)	U.S. (N=9,518)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-5 hr	93.9	65.6	60.2
Deceased: 6-10 hr	6.1	31.6	28.2
Deceased: 11-15 hr	0.0	2.1	6.8
Deceased: 16-20 hr	0.0	0.3	2.5
Deceased: 21+ hr	0.0	0.0	0.6
Not Reported	0.0	0.3	1.6
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-5 hr	75.4	42.3	40.0
Deceased: 6-10 hr	24.6	55.4	47.1
Deceased: 11-15 hr	0.0	1.3	7.2
Deceased: 16-20 hr	0.0	0.3	3.1
Deceased: 21+ hr	0.0	0.0	0.9
Not Reported	0.0	0.6	1.7
Procedure Type (%)			
Single organ	95.9	90.8	90.2
Multi organ	4.1	9.2	9.8
Donor Location (%)			
Local Donation Service Area (DSA)	33.7	31.8	35.3
Another Donation Service Area (DSA)	66.3	68.2	64.7
Median Time in Hospital After Transplant	13.0 Days	11.0 Days	10.0 Days



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C. Transplant Information

Table C4L. Living donor transplant characteristics Transplants performed between 07/01/2022 and 06/30/2023

	Percer	Percentage in each category		
Transplant Characteristic	Center (N=21)	Region (N=160)	U.S. (N=635)	
Relation with Donor (%)				
Related	38.1	42.5	51.7	
Unrelated	61.9	50.0	45.8	
Not Reported	0.0	7.5	2.5	
Procedure Type (%)				
Single organ	100.0	100.0	100.0	
Multi organ	0.0	0.0	0.0	
Median Time in Hospital After Transplant	13.0 Days	9.0 Days	11.0 Days	



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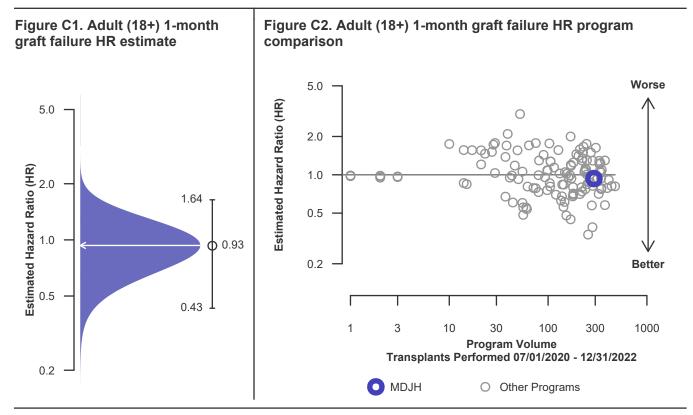
C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	291	19,856
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.59% [95.85%-99.37%]	96.94% [96.70%-97.18%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.37%	
Number of observed graft failures (including deaths) during the first month after transplant	7	608
Number of expected graft failures (including deaths) during the first month after transplant	7.64	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.43, 1.64]	

* 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, [0.43, 1.64], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 57% reduced risk up to 64% increased risk.





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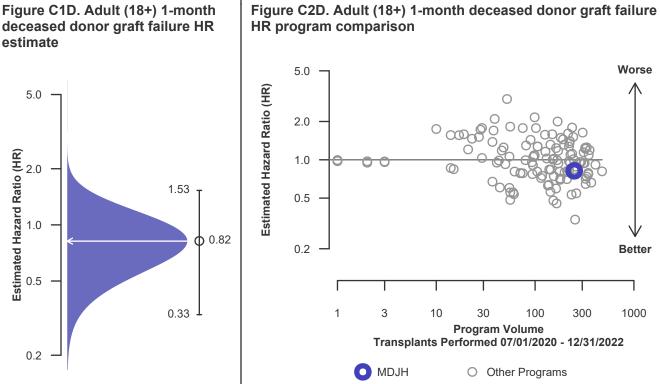
C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	249	18,615
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.99% [96.27%-99.75%]	96.93% [96.68%-97.18%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.37%	
Number of observed graft failures (including deaths) during the first month after transplant	5	572
Number of expected graft failures (including deaths) during the first month after transplant	6.56	
Estimated hazard ratio*	0.82	
95% credible interval for the hazard ratio**	[0.33, 1.53]	

* 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, [0.33, 1.53], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 18% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 67% reduced risk up to 53% increased risk.



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.

deceased donor graft failure HR estimate



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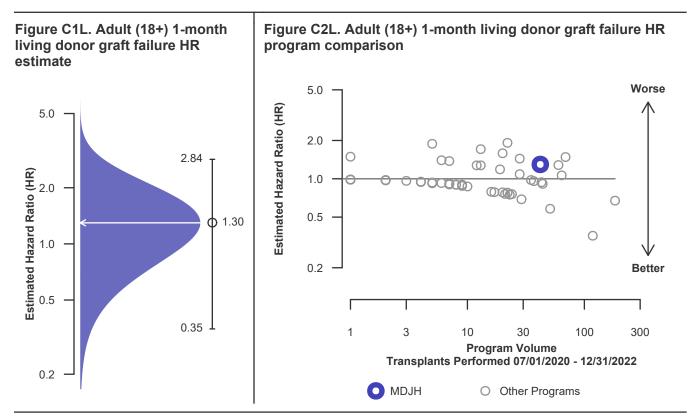
C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	42	1,241
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	95.24% [89.01%-100.00%]	97.10% [96.17%-98.04%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.41%	
Number of observed graft failures (including deaths) during the first month after transplant	2	36
Number of expected graft failures (including deaths) during the first month after transplant	1.08	
Estimated hazard ratio*	1.30	
95% credible interval for the hazard ratio**	[0.35, 2.84]	

* 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, [0.35, 2.84], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 30% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 65% reduced risk up to 184% increased risk.





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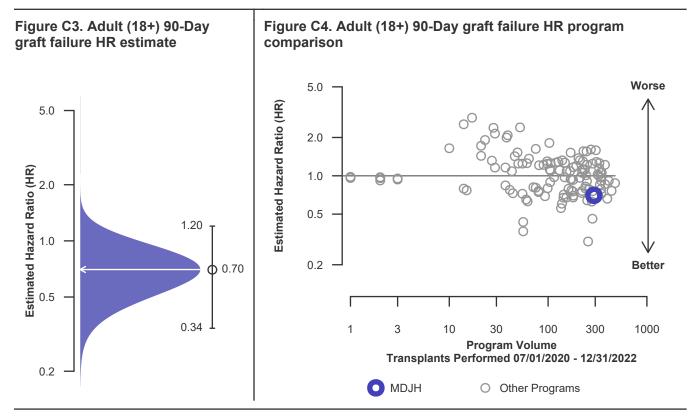
C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	291	19,856
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	97.25% [95.39%-99.15%]	95.21% [94.91%-95.50%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.80%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	8	952
Number of expected graft failures (including deaths) during the first 90 days after transplant	12.24	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.34, 1.20]	

* 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, [0.34, 1.20], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 30% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 66% reduced risk up to 20% increased risk.





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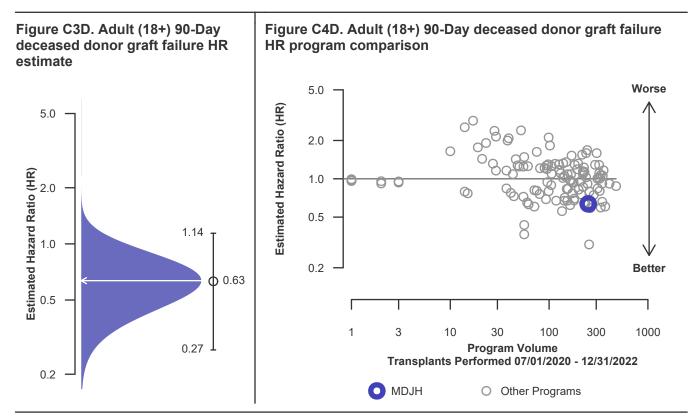
C. Transplant Information

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	249	18,615
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	97.59% [95.70%-99.51%]	95.18% [94.87%-95.49%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.76%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	6	897
Number of expected graft failures (including deaths) during the first 90 days after transplant	10.60	
Estimated hazard ratio*	0.63	
95% credible interval for the hazard ratio**	[0.27, 1.14]	

* 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, [0.27, 1.14], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 37% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 73% reduced risk up to 14% increased risk.





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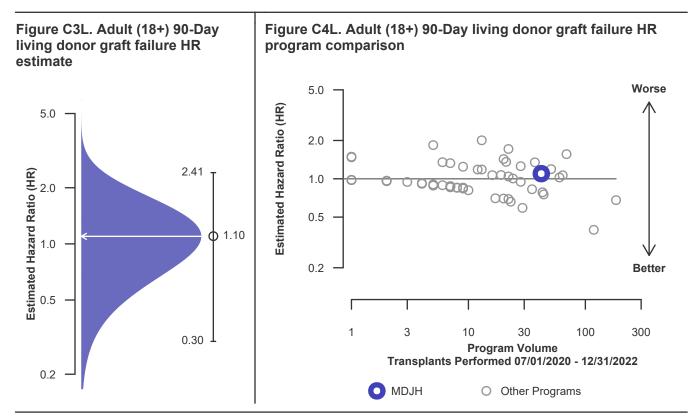
C. Transplant Information

Table C6L. Adult (18+) 90-Day survival with a functioning living donor graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	42	1,241
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	95.24% [89.01%-100.00%]	95.57% [94.43%-96.72%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.04%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	55
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.64	
Estimated hazard ratio*	1.10	
95% credible interval for the hazard ratio**	[0.30, 2.41]	

* 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, [0.30, 2.41], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 10% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 70% reduced risk up to 141% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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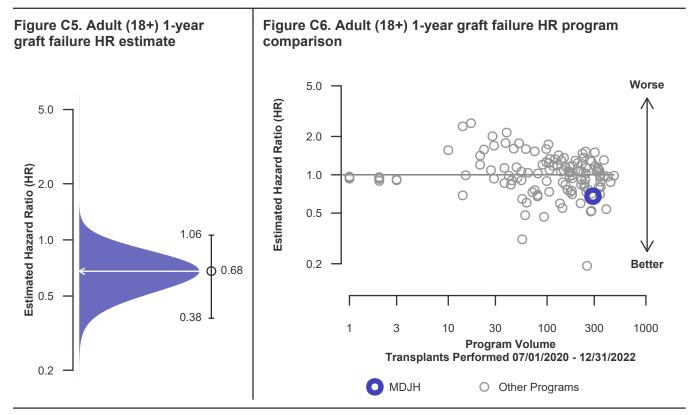
C. Transplant Information

Table C7. Adult (18+) 1-year survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	291	19,856
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.36% [92.92%-97.87%]	92.02% [91.63%-92.41%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.86%	
Number of observed graft failures (including deaths) during the first year after transplant	13	1,509
Number of expected graft failures (including deaths) during the first year after transplant	20.09	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.38, 1.06]	

* 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, [0.38, 1.06], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 32% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 62% reduced risk up to 6% increased risk.





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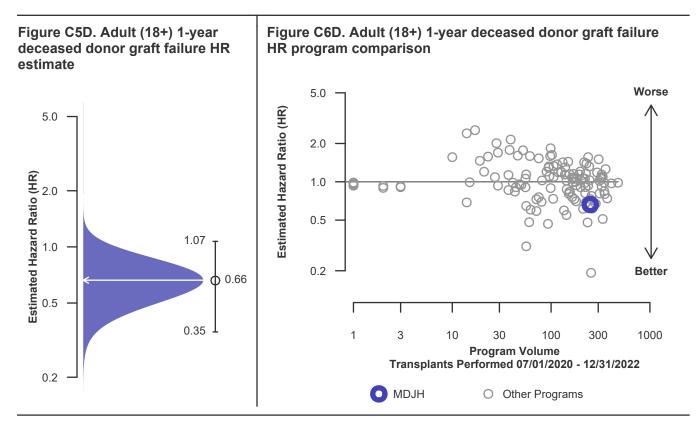
C. Transplant Information

Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	249	18,615
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.39% [92.75%-98.10%]	91.95% [91.55%-92.36%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.71%	
Number of observed graft failures (including deaths) during the first year after transplant	11	1,426
Number of expected graft failures (including deaths) during the first year after transplant	17.61	
Estimated hazard ratio*	0.66	
95% credible interval for the hazard ratio**	[0.35, 1.07]	

* 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, [0.35, 1.07], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 34% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 65% reduced risk up to 7% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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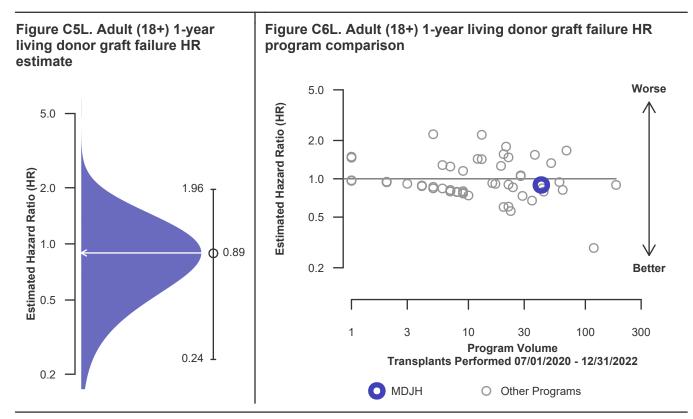
C. Transplant Information

Table C7L. Adult (18+) 1-year survival with a functioning living donor graftSingle organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	42	1,241
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.24% [89.01%-100.00%]	93.04% [91.60%-94.50%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.76%	
Number of observed graft failures (including deaths) during the first year after transplant	2	83
Number of expected graft failures (including deaths) during the first year after transplant	2.47	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.24, 1.96]	

* 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, [0.24, 1.96], 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 76% reduced risk up to 96% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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C. Transplant Information

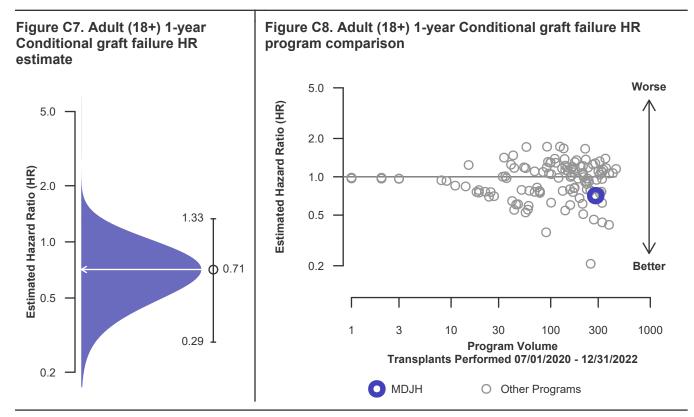
RECIPIENTS

Table C8. Adult (18+) 1-year Conditional survival with a functioning graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	283	18,904
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [9] [9] (unadjusted for patient and donor characteristics)	98.06% 97.41%-98.71%]	96.65% [96.55%-96.76%]
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)	96.93%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	5	557
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	7.84	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.29, 1.33]	

* 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, [0.29, 1.33], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 29% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 71% reduced risk up to 33% increased risk.





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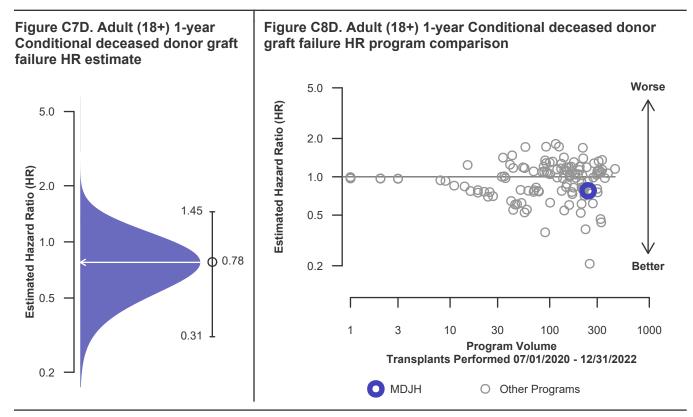
C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	243	17,718
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [95% C	97.74% 96.91%-98.58%]	96.61% [96.50%-96.72%]
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)	96.81%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	5	529
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	7.01	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.31, 1.45]	

* 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, [0.31, 1.45], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 22% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 69% reduced risk up to 45% increased risk.





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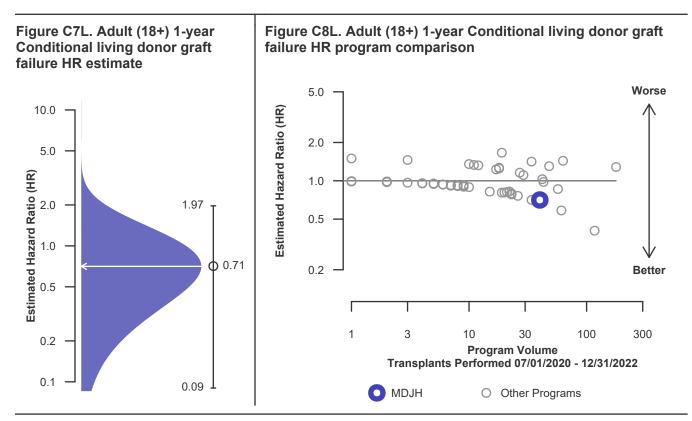
C. Transplant Information

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	40	1,186
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	97.36% [97.00%-97.71%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.62%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	28
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.83	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.09, 1.97]	

* 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, [0.09, 1.97], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 29% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 91% reduced risk up to 97% increased risk.





REGISTRY <u>야</u> Center Code: MDJH Transplant Program (Organ): Liver TRANSPLANT

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C. Transplant Information

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Table C9. Adult (18+) 3-year survival with a functioning graft

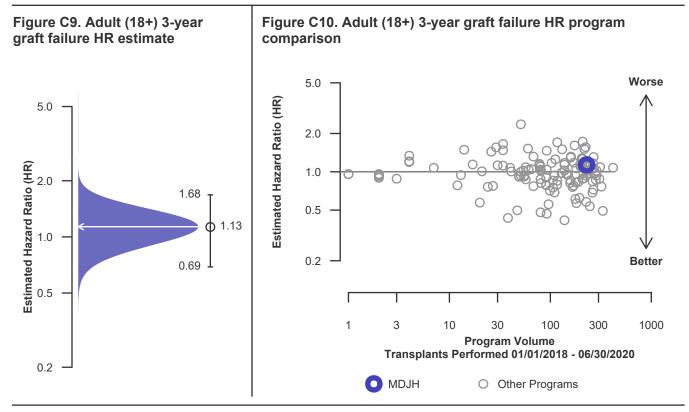
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	229	16,402
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	88.28% [82.56%-94.40%]	87.40% [86.14%-88.67%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.92%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	18	1,308
Number of expected graft failures (including deaths) during the first 3 years after transplant	15.64	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.69, 1.68]	

* 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, [0.69, 1.68], 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 31% reduced risk up to 68% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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C. Transplant Information

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

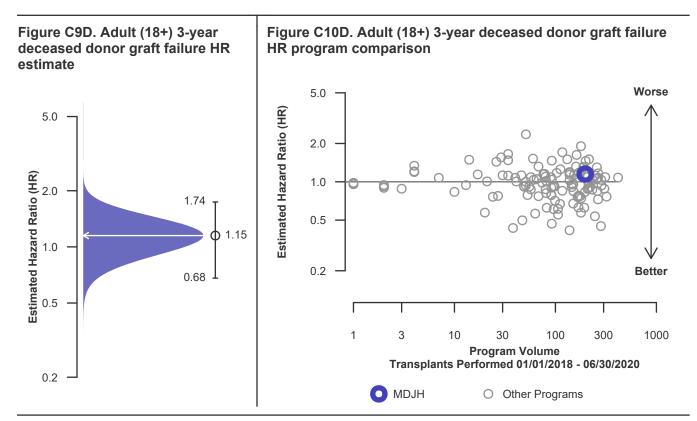
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	197	15,508
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	87.93% [81.72%-94.61%]	87.29% [85.96%-88.64%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.79%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	16	1,244
Number of expected graft failures (including deaths) during the first 3 years after transplant	13.66	
Estimated hazard ratio*	1.15	
95% credible interval for the hazard ratio**	[0.68, 1.74]	

* 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 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, [0.68, 1.74], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 15% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 32% reduced risk up to 74% increased risk.





Center Code: MDJH REGISTRY <u>야</u> Transplant Program (Organ): Liver Release Date: January 9, 2024

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C. Transplant Information

Table C9L. Adult (18+) 3-year survival with a functioning living donor graft

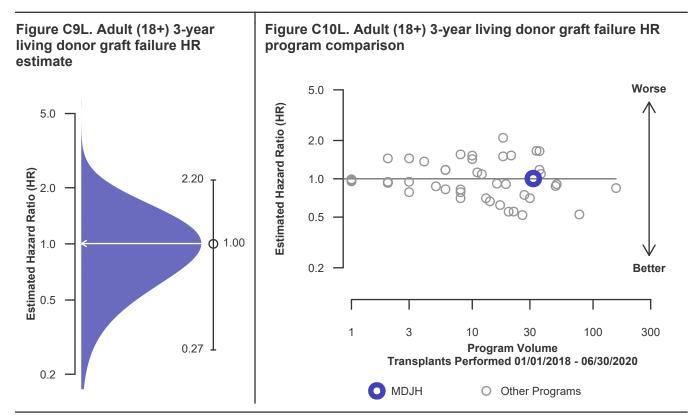
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	32	894
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	91.61% [80.98%-100.00%]	89.03% [85.96%-92.21%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.71%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	64
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.98	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.27, 2.20]	

* 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, [0.27, 2.20], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 0% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 73% reduced risk up to 120% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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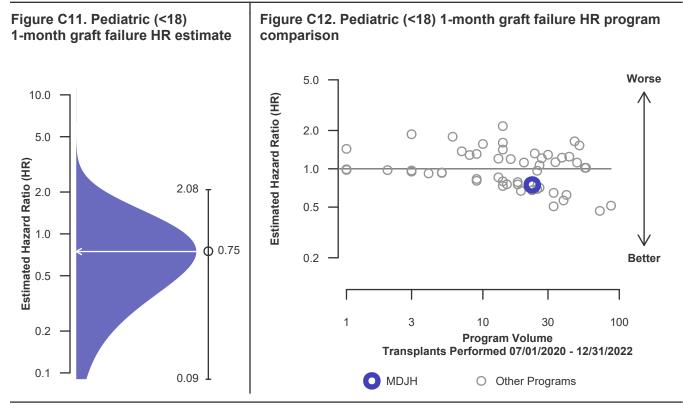
C. Transplant Information

Table C10. Pediatric (<18) 1-month survival with a functioning graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	23	1,230
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.69% [94.56%-96.83%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.10%	
Number of observed graft failures (including deaths) during the first month after transplant	0	53
Number of expected graft failures (including deaths) during the first month after transplant	0.68	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.09, 2.08]	

* 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, [0.09, 2.08], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 25% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 91% reduced risk up to 108% increased risk.





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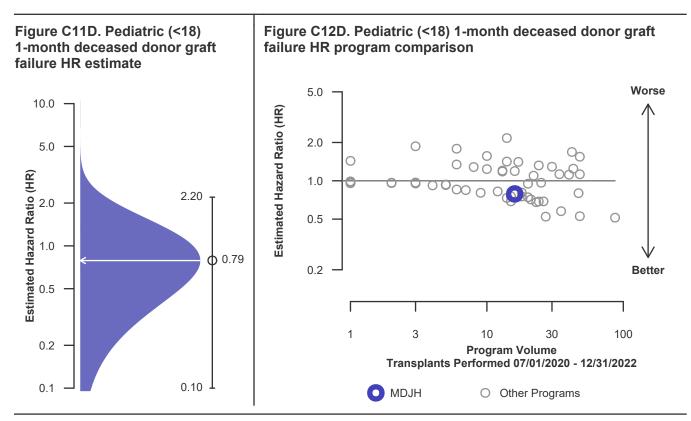
C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	16	1,032
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.25% [93.96%-96.56%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.71%	
Number of observed graft failures (including deaths) during the first month after transplant	0	49
Number of expected graft failures (including deaths) during the first month after transplant	0.54	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.10, 2.20]	

* 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, [0.10, 2.20], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 90% reduced risk up to 120% increased risk.





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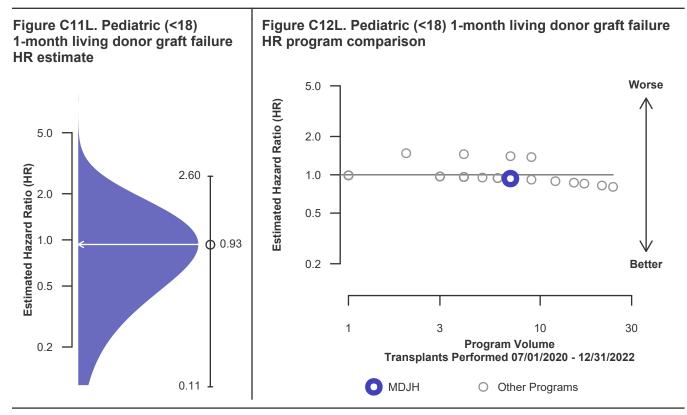
C. Transplant Information

Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	7	198
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.98% [96.04%-99.96%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.98%	
Number of observed graft failures (including deaths) during the first month after transplant	0	4
Number of expected graft failures (including deaths) during the first month 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 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, 2.60], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure 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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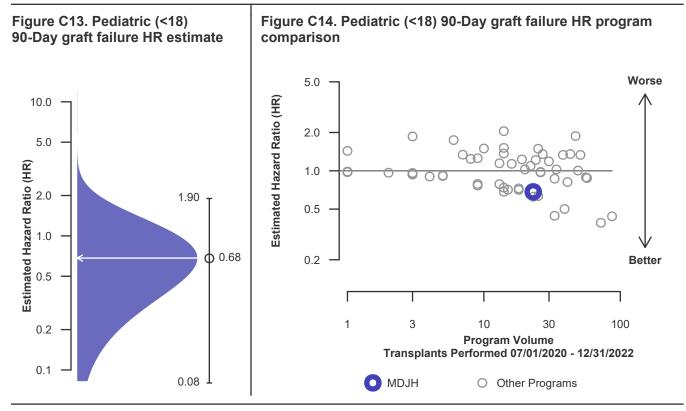
C. Transplant Information

Table C11. Pediatric (<18) 90-Day survival with a functioning graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	23	1,230
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.63% [93.38%-95.90%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.06%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	66
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.93	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.08, 1.90]	

* 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, 1.90], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 32% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 92% reduced risk up to 90% increased risk.





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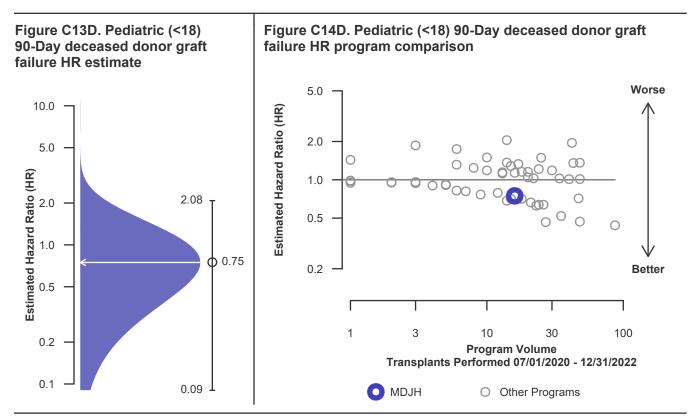
C. Transplant Information

Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	16	1,032
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.28% [92.88%-95.71%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.88%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	59
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.68	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.09, 2.08]	

* 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, [0.09, 2.08], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 25% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 91% reduced risk up to 108% increased risk.





Center Code: MDJH REGISTRY <u>야</u> Transplant Program (Organ): Liver TRANSPLANT Release Date: January 9, 2024 Based on Data Available: October 31, 2023

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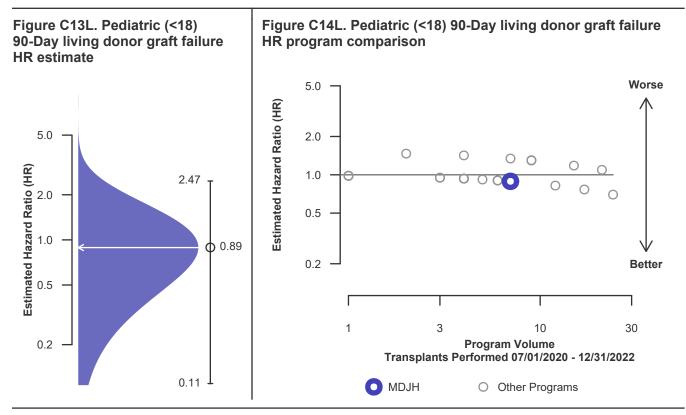
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Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	7	198
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	96.46% [93.93%-99.07%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.47%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	7
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.25	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.47]	

* 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, 2.47], 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 147% increased risk.





REGISTRY OF Center Code: MDJH TRANSPLANT Release Date: January 9, 2024 Based on Data Available: October 31, 2023

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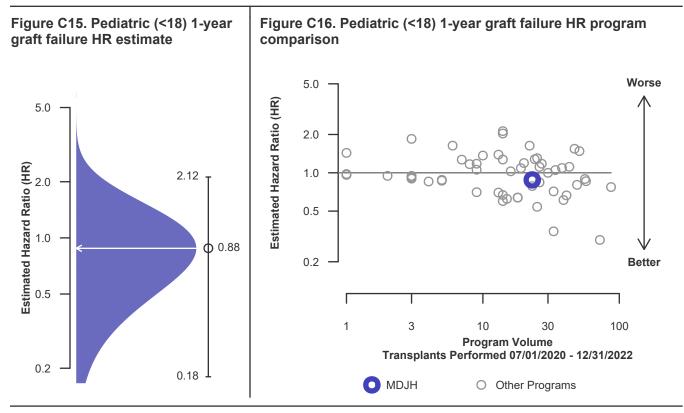
C. Transplant Information

Table C12. Pediatric (<18) 1-year survival with a functioning graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	23	1,230
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.65% [87.67%-100.00%]	92.53% [91.05%-94.05%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.86%	
Number of observed graft failures (including deaths) during the first year after transplant	1	89
Number of expected graft failures (including deaths) during the first year after transplant	1.41	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.18, 2.12]	

* 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, [0.18, 2.12], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 12% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 82% reduced risk up to 112% increased risk.





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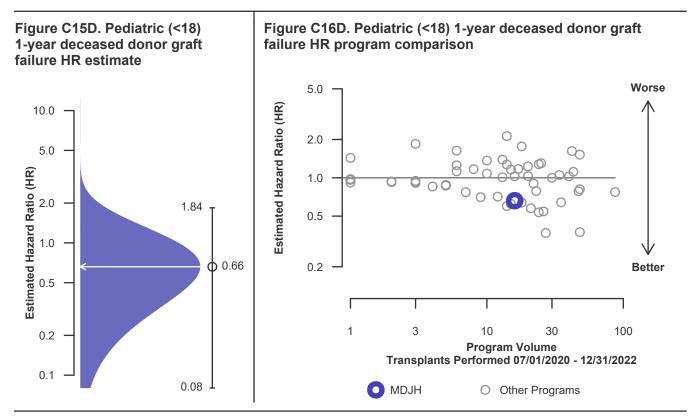
C. Transplant Information

Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	16	1,032
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	92.20% [90.55%-93.89%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.66%	
Number of observed graft failures (including deaths) during the first year after transplant	0	78
Number of expected graft failures (including deaths) during the first year after transplant	1.03	
Estimated hazard ratio*	0.66	
95% credible interval for the hazard ratio**	[0.08, 1.84]	

* 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, 1.84], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 34% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 92% reduced risk up to 84% increased risk.





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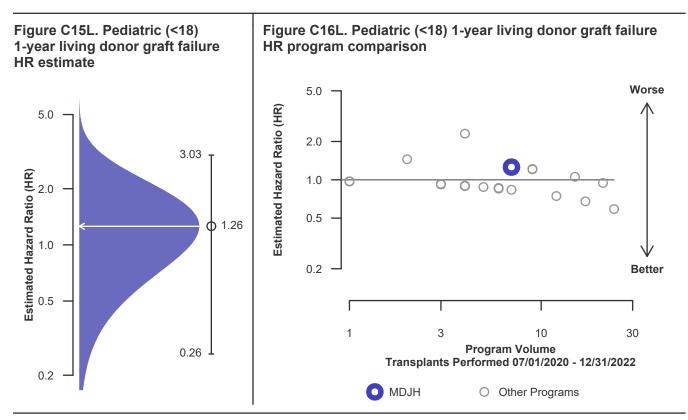
C. Transplant Information

Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	7	198
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [63.34%-100.00%]	94.29% [91.06%-97.64%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.31%	
Number of observed graft failures (including deaths) during the first year after transplant	1	11
Number of expected graft failures (including deaths) during the first year after transplant	0.39	
Estimated hazard ratio*	1.26	
95% credible interval for the hazard ratio**	[0.26, 3.03]	

* 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, [0.26, 3.03], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 26% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 74% reduced risk up to 203% increased risk.





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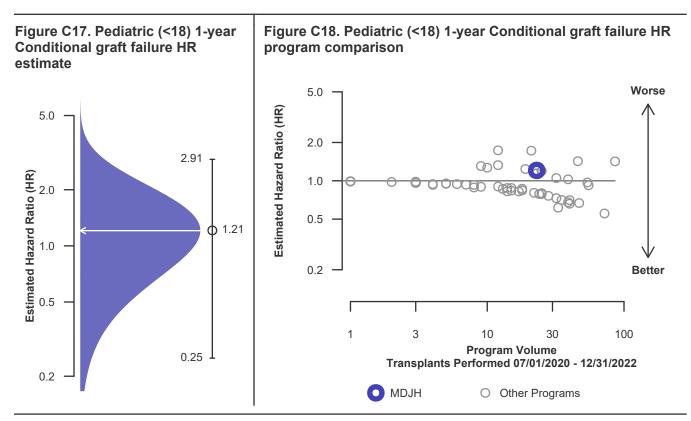
C. Transplant Information

Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft</th> Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	23	1,164
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [8 (unadjusted for patient and donor characteristics)	95.65% 7.67%-100.00%]	97.78% [97.50%-98.06%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.71%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	23
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.49	
Estimated hazard ratio*	1.21	
95% credible interval for the hazard ratio**	[0.25, 2.91]	

* 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, [0.25, 2.91], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 21% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 75% reduced risk up to 191% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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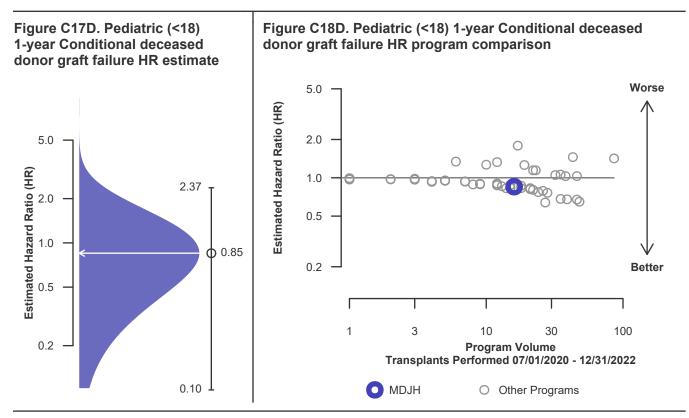
Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft</th> Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

Based on Data Available: October 31, 2023

	MDJH	U.S.
Number of transplants evaluated	16	973
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 0.00%-100.00%]	97.79% [97.49%-98.09%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.69%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	19
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.35	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.10, 2.37]	

* 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, [0.10, 2.37], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 15% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 90% reduced risk up to 137% increased risk.





REGISTRY <u>야</u> Center Code: MDJH Transplant Program (Organ): Liver TRANSPLANT Release Date: January 9, 2024 Based on Data Available: October 31, 2023 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

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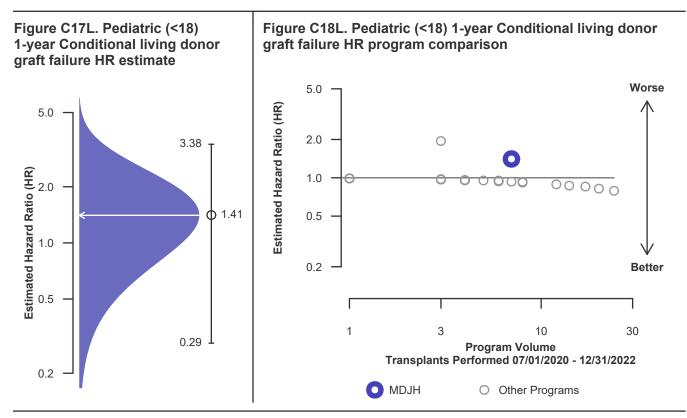
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Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	7	191
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [6 (unadjusted for patient and donor characteristics)	s 85.71% 33.34%-100.00%]	97.75% [96.94%-98.55%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.75%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	4
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.13	
Estimated hazard ratio*	1.41	
95% credible interval for the hazard ratio**	[0.29, 3.38]	

* 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, [0.29, 3.38], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 41% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 71% reduced risk up to 238% increased risk.





Center Code: MDJH REGISTRY <u>야</u> Transplant Program (Organ): Liver TRANSPLANT

Release Date: January 9, 2024

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Table C14. Pediatric (<18) 3-year survival with a functioning graft

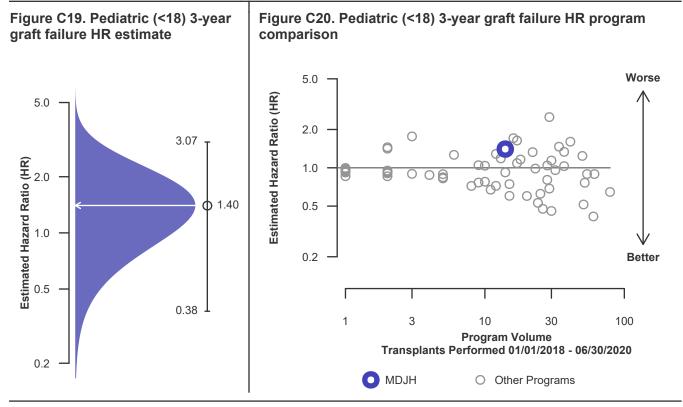
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	14	1,177
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	81.25% [60.22%-100.00%]	89.18% [86.63%-91.79%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.26%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	97
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.85	
Estimated hazard ratio*	1.40	
95% credible interval for the hazard ratio**	[0.38, 3.07]	

* 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, [0.38, 3.07], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 40% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 62% reduced risk up to 207% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft

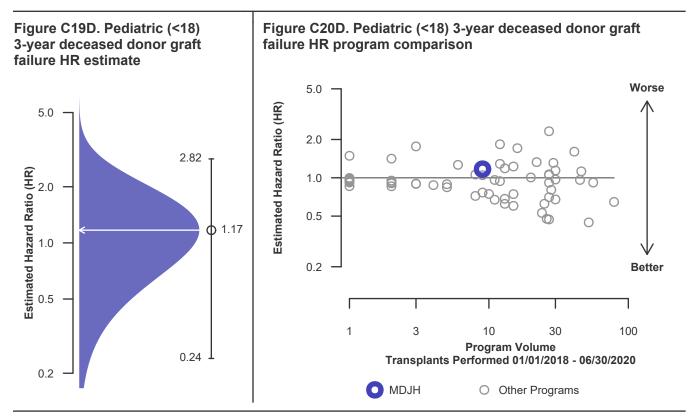
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	9	1,009
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	88.89% [70.56%-100.00%]	89.04% [86.34%-91.82%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.13%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	86
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.56	
Estimated hazard ratio*	1.17	
95% credible interval for the hazard ratio**	[0.24, 2.82]	

* 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, [0.24, 2.82], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 17% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 76% reduced risk up to 182% increased risk.





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Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft

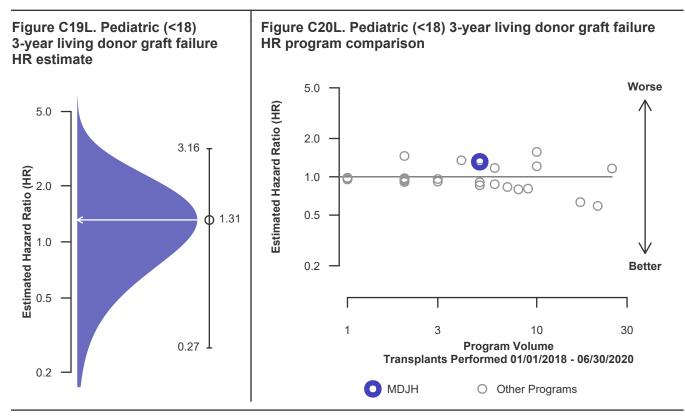
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	5	168
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	66.67% [29.95%-100.00%]	89.63% [82.66%-97.19%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.71%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	11
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.29	
Estimated hazard ratio*	1.31	
95% credible interval for the hazard ratio**	[0.27, 3.16]	

* 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, [0.27, 3.16], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 31% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 73% reduced risk up to 216% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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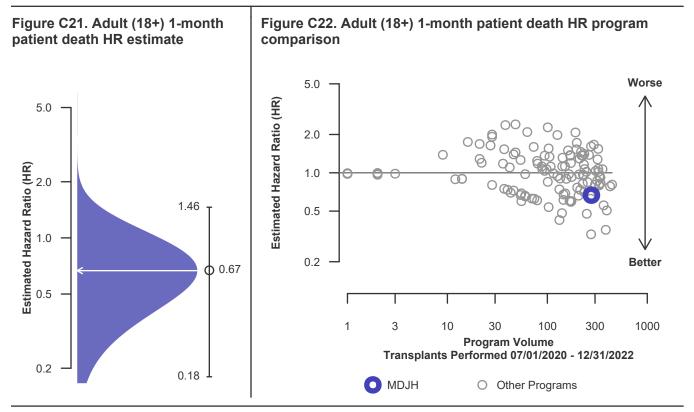
Table C15. Adult (18+) 1-month patient survival

Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	276	19,160
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.28% [98.28%-100.00%]	98.17% [97.98%-98.36%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.56%	
Number of observed deaths during the first month after transplant	2	350
Number of expected deaths during the first month after transplant	4.00	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.18, 1.46]	

* 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, [0.18, 1.46], 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 82% reduced risk up to 46% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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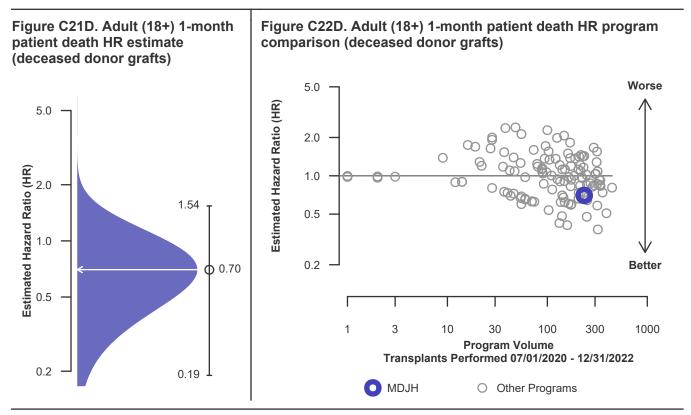
C. Transplant Information

Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	234	17,932
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.15% [97.97%-100.00%]	98.12% [97.92%-98.31%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.42%	
Number of observed deaths during the first month after transplant	2	338
Number of expected deaths during the first month after transplant	3.71	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.19, 1.54]	

* 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 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, [0.19, 1.54], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 30% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 81% reduced risk up to 54% increased risk.





REGISTRY OFCenter Code: MDJHTRANSPLANTTransplant Program (Organ): Liver
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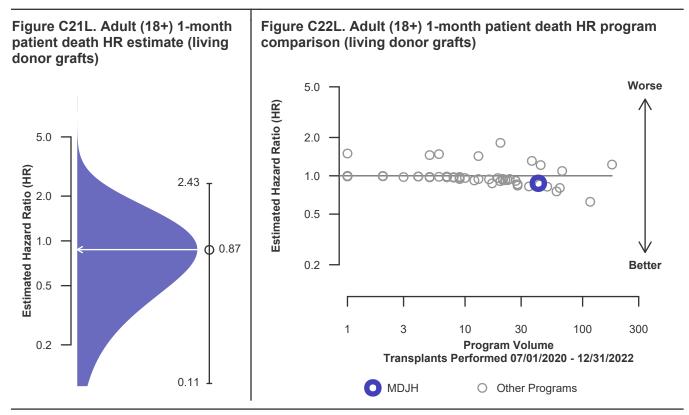
C. Transplant Information

Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	42	1,228
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.02% [98.47%-99.57%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.31%	
Number of observed deaths during the first month after transplant	0	12
Number of expected deaths during the first month after transplant	0.29	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.11, 2.43]	

* 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, 2.43], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 13% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 143% increased risk.





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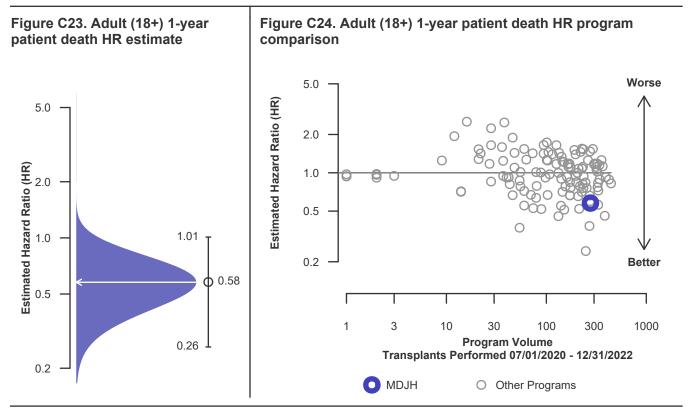
Table C16. Adult (18+) 1-year patient survival

Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	276	19,160
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.28% [95.30%-99.30%]	93.95% [93.60%-94.30%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.88%	
Number of observed deaths during the first year after transplant	7	1,094
Number of expected deaths during the first year after transplant	13.57	
Estimated hazard ratio*	0.58	
95% credible interval for the hazard ratio**	[0.26, 1.01]	

* 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, [0.26, 1.01], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 42% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 74% reduced risk up to 1% increased risk.





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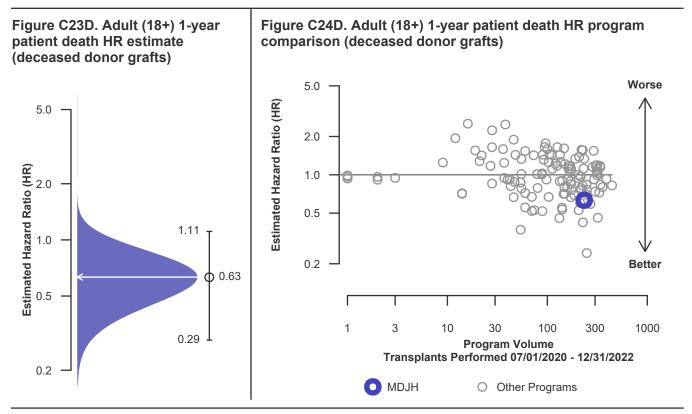
C. Transplant Information

Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	234	17,932
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.79% [94.47%-99.17%]	93.84% [93.48%-94.21%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.54%	
Number of observed deaths during the first year after transplant	7	1,042
Number of expected deaths during the first year after transplant	12.25	
Estimated hazard ratio*	0.63	
95% credible interval for the hazard ratio**	[0.29, 1.11]	

* 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, [0.29, 1.11], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 37% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 71% reduced risk up to 11% increased risk.





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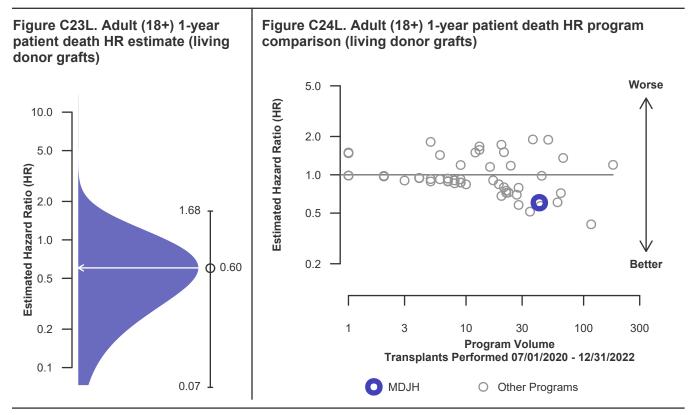
C. Transplant Information

Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)Single organ transplants performed between 07/01/2020 and 12/31/2022Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	42	1,228
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.51% [94.32%-96.72%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.80%	
Number of observed deaths during the first year after transplant	0	52
Number of expected deaths during the first year after transplant	1.31	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.07, 1.68]	

* 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, 1.68], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 40% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 93% reduced risk up to 68% increased risk.





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Table C17. Adult (18+) 3-year patient survival

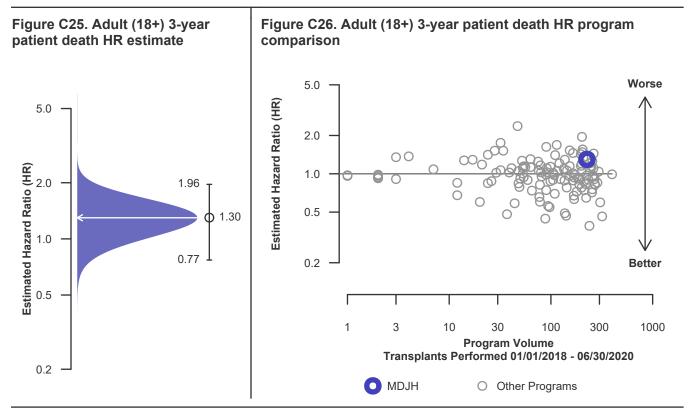
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

· · · · ·	MDJH	U.S.
Number of transplants evaluated	226	15,800
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	89.18% [83.56%-95.19%]	89.89% [88.68%-91.12%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.92%	
Number of observed deaths during the first 3 years after transplant	16	971
Number of expected deaths during the first 3 years after transplant	11.87	
Estimated hazard ratio*	1.30	
95% credible interval for the hazard ratio**	[0.77, 1.96]	

* 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, [0.77, 1.96], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 30% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 23% reduced risk up to 96% increased risk.





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

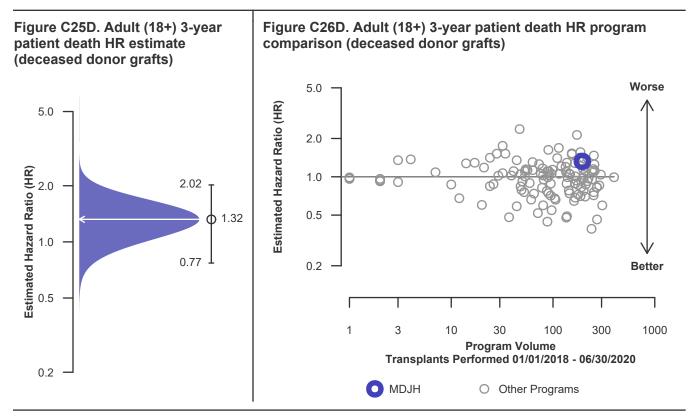
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	194	14,917
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	88.27% [82.04%-94.96%]	89.74% [88.46%-91.04%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.48%	
Number of observed deaths during the first 3 years after transplant	15	934
Number of expected deaths during the first 3 years after transplant	10.87	
Estimated hazard ratio*	1.32	
95% credible interval for the hazard ratio**	[0.77, 2.02]	

* 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, [0.77, 2.02], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 32% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 23% reduced risk up to 102% increased risk.





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Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients)

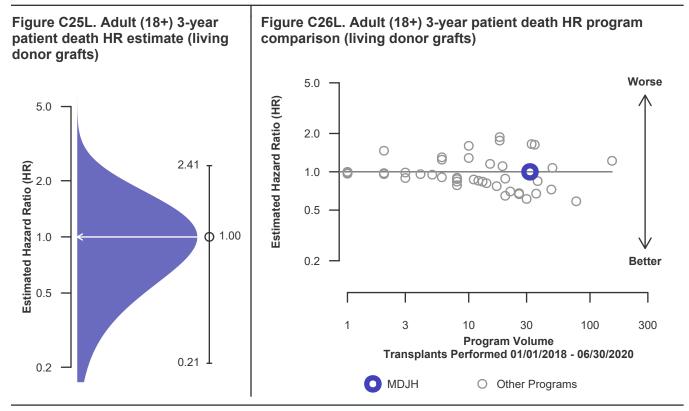
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	32	883
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.43% [89.79%-100.00%]	92.30% [89.39%-95.30%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.56%	
Number of observed deaths during the first 3 years after transplant	1	37
Number of expected deaths during the first 3 years after transplant	1.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.21, 2.41]	

* 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, [0.21, 2.41], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 79% reduced risk up to 141% increased risk.





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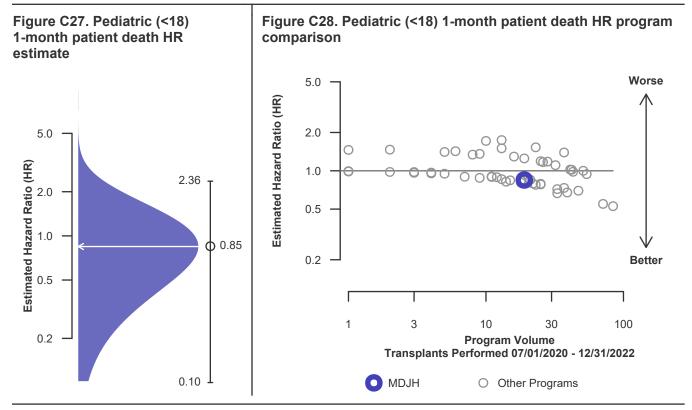
Table C18. Pediatric (<18) 1-month patient survival

Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	19	1,162
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.68% [96.81%-98.55%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.10%	
Number of observed deaths during the first month after transplant	0	27
Number of expected deaths during the first month after transplant	0.36	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.10, 2.36]	

* 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, [0.10, 2.36], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 15% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 90% reduced risk up to 136% increased risk.





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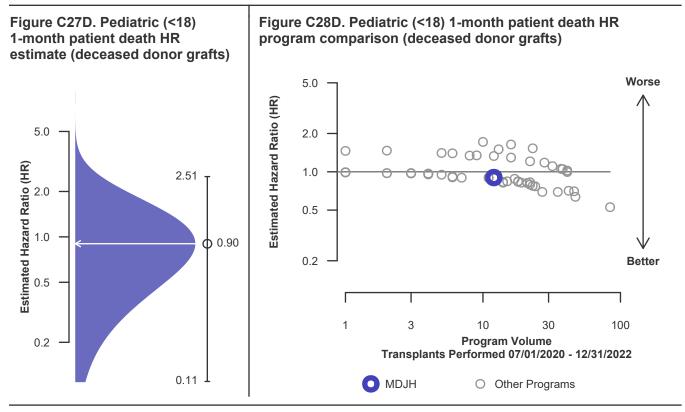
C. Transplant Information

Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th> Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	12	966
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.62% [96.66%-98.59%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.19%	
Number of observed deaths during the first month after transplant	0	23
Number of expected deaths during the first month 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.





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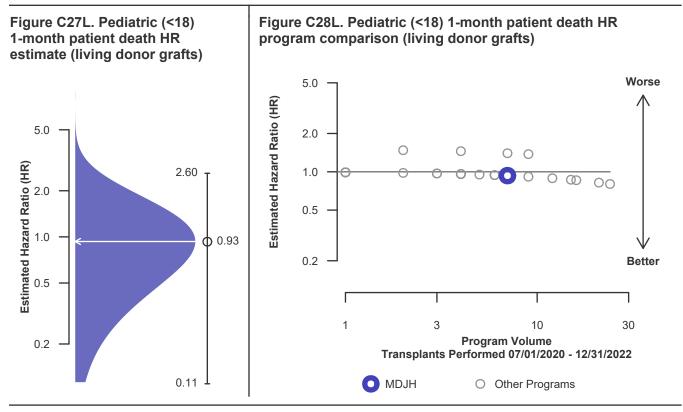
C. Transplant Information

Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)</th> Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	7	196
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.96% [96.00%-99.96%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.96%	
Number of observed deaths during the first month after transplant	0	4
Number of expected deaths during the first month 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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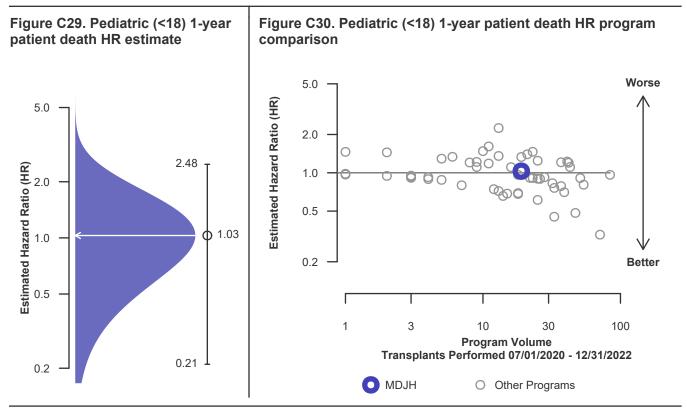
Table C19. Pediatric (<18) 1-year patient survival

Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	19	1,162
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	94.74% [85.21%-100.00%]	94.73% [93.42%-96.05%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.03%	
Number of observed deaths during the first year after transplant	1	59
Number of expected deaths during the first year after transplant	0.91	
Estimated hazard ratio*	1.03	
95% credible interval for the hazard ratio**	[0.21, 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 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, [0.21, 2.48], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 3% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 79% reduced risk up to 148% increased risk.





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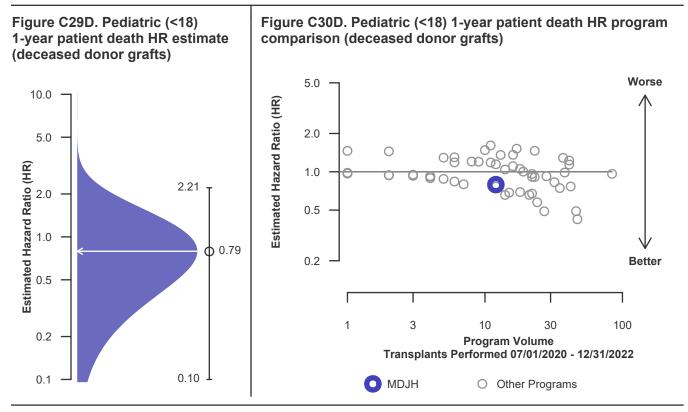
C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</th> Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	12	966
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.83% [93.41%-96.27%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.48%	
Number of observed deaths during the first year after transplant	0	48
Number of expected deaths during the first year after transplant	0.52	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.10, 2.21]	

* 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, [0.10, 2.21], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 21% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 90% reduced risk up to 121% increased risk.





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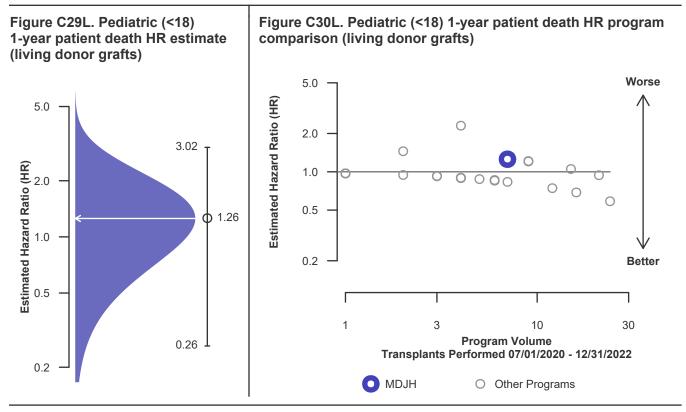
C. Transplant Information

Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)</th>Single organ transplants performed between 07/01/2020 and 12/31/2022Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	7	196
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [63.34%-100.00%]	94.23% [90.96%-97.61%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.24%	
Number of observed deaths during the first year after transplant	1	11
Number of expected deaths during the first year after transplant	0.39	
Estimated hazard ratio*	1.26	
95% credible interval for the hazard ratio**	[0.26, 3.02]	

* 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, [0.26, 3.02], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 26% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 74% reduced risk up to 202% increased risk.





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Table C20. Pediatric (<18) 3-year patient survival

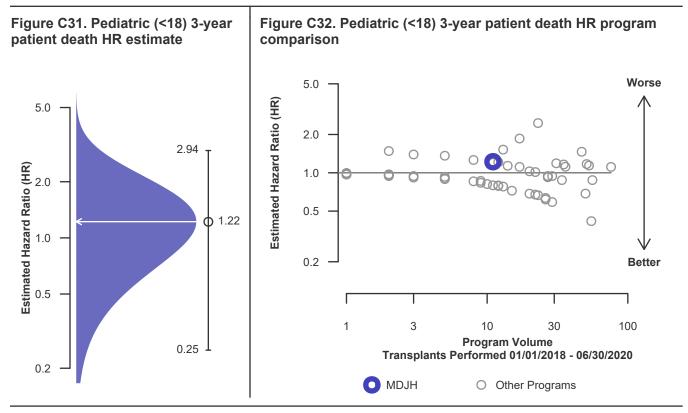
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	11	1,098
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	85.71% [63.34%-100.00%]	94.15% [92.39%-95.95%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.45%	
Number of observed deaths during the first 3 years after transplant	1	49
Number of expected deaths during the first 3 years after transplant	0.46	
Estimated hazard ratio*	1.22	
95% credible interval for the hazard ratio**	[0.25, 2.94]	

* 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, [0.25, 2.94], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 22% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 75% reduced risk up to 194% increased risk.





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

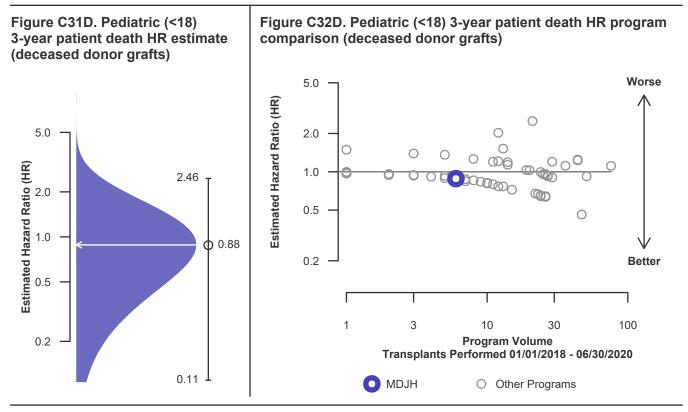
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	6	931
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.30% [92.46%-96.17%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.30%	
Number of observed deaths during the first 3 years after transplant	0	42
Number of expected deaths during the first 3 years after transplant	0.26	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.46]	

* 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, 2.46], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 12% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 146% increased risk.





REGISTRY OF TRANSPLANT RECIPIENTS Center Code: MDJH Transplant Program (Organ): Liver Release Date: January 9, 2024 Based on Data Available: October 31, 2023

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C. Transplant Information

Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

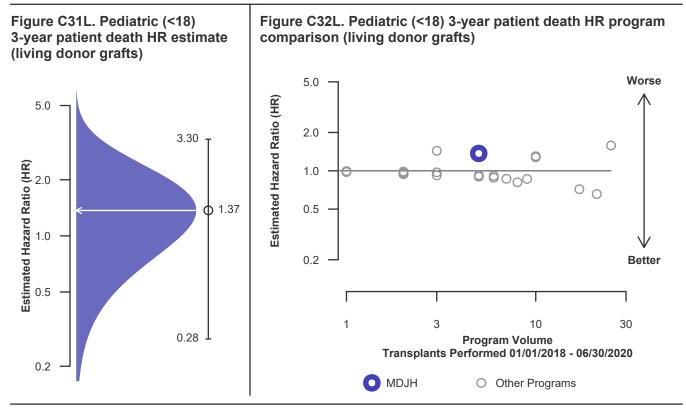
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	5	167
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	66.67% [29.95%-100.00%]	92.37% [85.70%-99.56%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.43%	
Number of observed deaths during the first 3 years after transplant	1	7
Number of expected deaths during the first 3 years after transplant	0.19	
Estimated hazard ratio*	1.37	
95% credible interval for the hazard ratio**	[0.28, 3.30]	

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





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C. Transplant Information

Table C21. Multi-organ transplant graft survival: 07/01/2020 - 12/31/2022

Adult (18+) Transplants	First-Year Outcomes						
Transplant Type	Transplants Performed MDJH-TX1 USA		Liver Graft Failures MDJH-TX1 USA			Estimated Liver Graft Survival MDJH-TX1 USA	
Kidney-Liver Liver-Heart Liver-Lung	16 1 1	1,926 138 39	2 0 0	183 27 6	87.5% 100.0% 100.0%	90.5% 80.4% 84.6%	

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 07/01/2020 - 12/31/2022

Adult (18+) Transplants	First-Year Outcomes						
Transplant Type	Transplants Performed MDJH-TX1 USA		Patient Deaths MDJH-TX1 USA			Estimated Patient Survival MDJH-TX1 USA	
Kidney-Liver Liver-Heart Liver-Lung	16 1 1	1,926 138 39	2 0 0	173 26 6	87.5% 100.0% 100.0%	91.0% 81.2% 84.6%	

Pediatric (<18) Transplants

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



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D. Living Donor Information

Table D1. Living donor summary: 07/01/2020 - 06/30/2023

		This Center			United States		
Living Donor Follow-Up	07/2020- 06/2021	07/2021- 06/2022	07/2022- 12/2022	07/2020- 06/2021	07/2021- 06/2022	07/2022- 12/2022	
Number of Living Donors	17	21	11	538	587	301	
6-Month Follow-Up Donors due for follow-up	12	21	10	401	587	252	
Timely clinical data	12 100.0%	21 100.0%	10 100.0%	347 86.5%	498 84.8%	205 81.3%	
Timely lab data	12 100.0%	21 100.0%	10 100.0%	350 87.3%	498 84.8%	212 84.1%	
12-Month Follow-Up Donors due for follow-up	17	19		538	529		
Timely clinical data	17 100.0%	17 89.5%		457 84.9%	411 77.7%		
Timely lab data	17 100.0%	15 78.9%		450 83.6%	404 76.4%		
24-Month Follow-Up Donors due for follow-up	16			484			
Timely clinical data	16 100.0%			334 69.0%			
Timely lab data	16 100.0%			326 67.4%			

Follow-up forms due during the COVID-19 amnesty period from 3/13/2020-3/31/2021 are not included in timely clinical and lab data calculations