

Center Code: MDJH Transplant Program (Organ): Liver Release Date: July 9, 2024

Based on Data Available: April 30, 2024

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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, July 2023 and January 2024. 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 July 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 July 2024 reporting cycle. These changes will remain in force beyond the July 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 1/1/2021-6/30/2023, follow-up through 12/31/2023.

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2018-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2020; follow-up through 12/31/2023.

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

Days after listing (and before transplant) between 1/1/2022 and 12/31/2023.



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

Candidates on the waitlist 1/1/2022-12/31/2023.

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

Evaluation period: 1/1/2022-12/31/2023.

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

Offers received 1/1/2023-12/31/2023.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 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 January 2025.

As with the January 2024 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 38.9 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. 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 01/01/2018 and 06/30/2023. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.1 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2023 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



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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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A. Program Summary

Figure A1. Waiting list and transplant activity

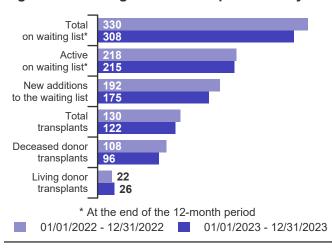


Table A1. Census of transplant recipients

Recipients	01/01/2022- 12/31/2022	01/01/2023- 12/31/2023
Transplanted at this center	130	122
Followed by this center*	854	1,022
transplanted at this program	n 829	993
transplanted elsewhere	25	29

^{*} Recipients followed are transplant recipients for whom the center has submitted a post-transplant follow-up form for a transplant that took place before the 12-month interval for each column.

Figure A2. Transplant rates 01/01/2022 - 12/31/2023

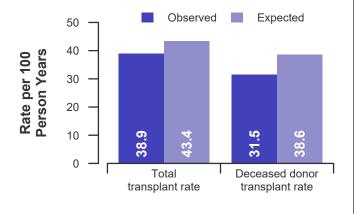


Figure A3. Pre-transplant mortality rates 01/01/2022 - 12/31/2023

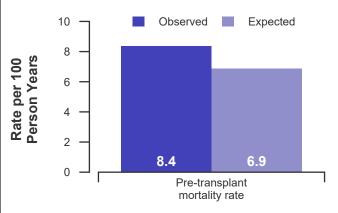


Figure A4. First-year adult graft and patient survival: 01/01/2021 - 06/30/2023

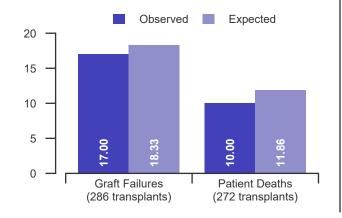
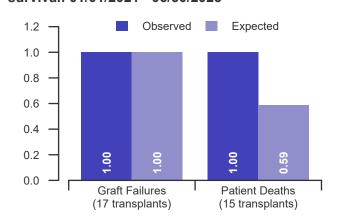


Figure A5. First-year pediatric graft and patient survival: 01/01/2021 - 06/30/2023





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Table B1. Waiting list activity summary: 01/01/2022 - 12/31/2023

		ts for enter	Activity for 01/01/2023 to 12/31/2023 as percent of registrants on waiting I on 01/01/2023			
Waiting List Registrations	01/01/2022- 12/31/2022	01/01/2023- 12/31/2023	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	343	330	100.0	100.0	100.0	
New listings at this center	192	175	53.0	103.4	133.6	
Removals						
Transferred to another center	1	3	0.9	1.2	1.4	
Received living donor transplant*	22	26	7.9	11.2	6.0	
Received deceased donor transplant*	108	96	29.1	58.5	91.1	
Died	21	21	6.4	8.5	8.7	
Transplanted at another center	4	7	2.1	3.1	2.9	
Deteriorated	15	10	3.0	9.0	9.0	
Recovered	5	14	4.2	8.4	10.9	
Other reasons	29	20	6.1	10.7	11.1	
On waiting list at end of period	330	308	93.3	92.8	92.5	

^{*} 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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Table B2. Demographic characteristics of waiting list candidates Candidates registered on the waiting list between 01/01/2023 and 12/31/2023

Domographic Characteristic		iting List Regi 023 to 12/31/2		All Waiting List Registrations on 12/31/2023 (%)			
Demographic Characteristic	This Center (N=175)	OPTN Region (N=1,533)	U.S. (N=14,662)	This Center (N=308)	OPTN Region (N=1,375)	U.S. (N=10,149)	
AII (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	71.4	74.0	67.3	74.7	73.4	64.6	
African-American	17.7	11.8	7.1	16.2	13.4	7.1	
Hispanic/Latino	6.3	8.7	18.8	5.5	8.9	21.0	
Asian	4.0	4.0	4.2	3.2	3.2	5.0	
Other	0.0	8.0	2.1	0.0	0.7	1.9	
Unknown	0.6	0.7	0.6	0.3	0.4	0.4	
Age (%)							
<2 years	1.7	2.5	2.1	1.0	1.1	1.5	
2-11 years	1.1	2.5	1.7	1.3	1.8	1.5	
12-17 years	0.0	8.0	1.0	0.6	1.2	1.0	
18-34 years	7.4	7.5	7.1	9.7	7.1	6.7	
35-49 years	27.4	21.9	22.1	23.1	19.9	19.9	
50-64 years	42.9	44.7	44.8	53.2	50.0	48.3	
65-69 years	16.6	14.7	15.5	9.4	14.6	16.1	
70+ years	2.9	5.4	5.7	1.6	4.3	5.0	
Gender (%)							
Male	61.7	61.9	59.7	52.9	60.7	59.8	
Female	38.3	38.1	40.3	47.1	39.3	40.2	

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



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Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 01/01/2023 and 12/31/2023

Medical Characteristic		iting List Regi 023 to 12/31/2		All Waiting List Registrations on 12/31/2023 (%)			
medical characteristic	This Center OPTN Region U.S. (N=175) (N=1,533) (N=14,662)		This Center (N=308)	OPTN Region (N=1,375)	U.S. (N=10,149)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	44.6	45.8	47.5	46.4	47.6	50.2	
A	40.0	37.7	37.2	38.6	39.4	39.1	
В	10.9	12.5	11.4	13.0	11.2	9.1	
AB	4.6	4.0	3.9	1.9	1.7	1.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	3.4	4.2	4.6	3.6	4.0	3.8	
No	96.6	95.8	95.4	96.4	96.0	96.2	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	0.6	2.9	2.4	1.3	1.2	1.3	
Non-Cholestatic Cirrhosis	25.1	28.8	31.6	60.7	51.0	49.9	
Cholestatic Liver Disease/Cirrhosis	6.3	6.2	6.2	9.1	9.1	7.5	
Biliary Atresia	1.7	1.9	1.9	1.6	1.8	1.9	
Metabolic Diseases	1.1	2.3	1.8	1.3	1.7	1.3	
Malignant Neoplasms	11.4	9.7	10.4	7.8	10.8	11.1	
Other	53.7	48.0	45.5	18.2	24.3	26.8	
Missing	0.0	0.1	0.1	0.0	0.1	0.1	
Medical Urgency Status/MELD/PEL	D at Listing	(%)*					
Status 1A	0.6	2.9	2.6	0.0	0.1	0.1	
Status 1B	0.0	0.3	0.4	0.0	0.0	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	18.9	14.2	12.7	44.2	31.6	24.3	
MELD 11-14	16.0	11.2	12.1	22.4	21.9	21.9	
MELD 15-20	26.3	19.4	21.8	23.1	24.3	28.9	
MELD 21-30	24.0	21.8	25.0	7.5	11.9	15.0	
MELD 31-40	7.4	14.8	13.7	0.3	1.4	1.1	
PELD less than or equal to 10	1.7	2.2	1.5	1.6	1.8	1.8	
PELD 11-14	0.6	0.7	0.4	0.0	0.4	0.3	
PELD 15-20	0.0	0.5	0.5	0.0	0.2	0.3	
PELD 21-30	0.6	0.3	0.4	0.3	0.3	0.2	
PELD 31 or greater	0.0	0.1	0.1	0.3	0.1	0.0	
Temporarily Inactive	0.6	6.4	4.9	0.3	6.0	5.7	

^{*} 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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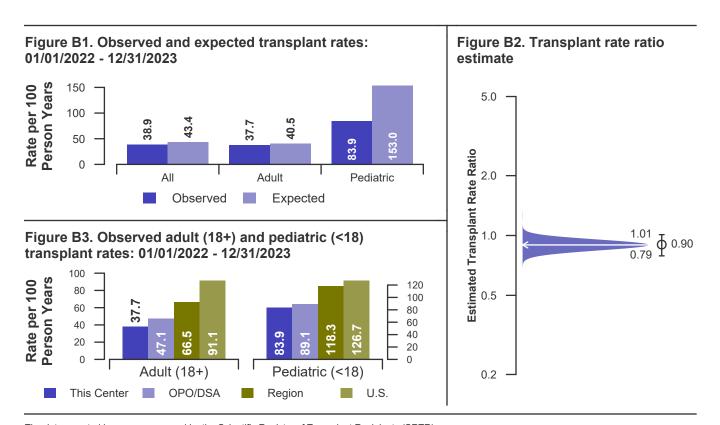
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Table B4. Transplant rates: 01/01/2022 - 12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	343	829	1,594	11,721
Person Years**	647.8	1,497.9	2,941.5	21,822.1
Removals for Transplant	252	730	2,017	20,186
Adult (18+) Candidates				
Count on waiting list at start*	334	800	1,537	11,320
Person Years**	631.1	1,438.4	2,824.1	20,963.6
Removals for transpant	238	677	1,878	19,098
Pediatric (<18) Candidates				
Count on waiting list at start*	9	29	57	401
Person Years**	16.7	59.5	117.5	858.5
Removals for transplant	14	53	139	1,088

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

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





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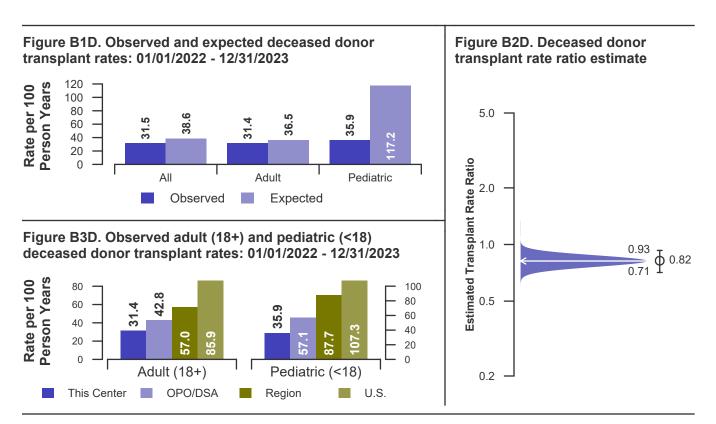
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Table B4D. Deceased donor transplant rates: 01/01/2022 - 12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	343	829	1,594	11,721
Person Years**	647.8	1,497.9	2,941.5	21,822.1
Removals for Transplant	204	649	1,712	18,925
Adult (18+) Candidates				
Count on waiting list at start*	334	800	1,537	11,320
Person Years**	631.1	1,438.4	2,824.1	20,963.6
Removals for transpant	198	615	1,609	18,004
Pediatric (<18) Candidates				
Count on waiting list at start*	9	29	57	401
Person Years**	16.7	59.5	117.5	858.5
Removals for transplant	6	34	103	921

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

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





Center Code: MDJH

Transplant Program (Organ): Liver

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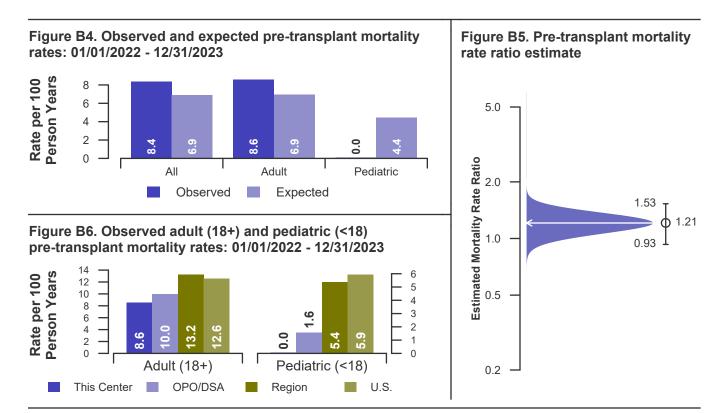
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Table B5. Pre-transplant mortality rates: 01/01/2022 - 12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	343	829	1,594	11,721
Person Years**	718.1	1,714.1	3,463.4	25,623.8
Number of deaths	60	166	447	3,159
Adult (18+) Candidates				
Count on waiting list at start*	334	800	1,537	11,320
Person Years**	701.4	1,650.8	3,333.3	24,677.1
Number of deaths	60	165	440	3,103
Pediatric (<18) Candidates				
Count on waiting list at start*	9	29	57	401
Person Years**	16.7	63.3	130.0	946.7
Number of deaths	0	1	7	56

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

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





Center Code: MDJH

Transplant Program (Organ): Liver

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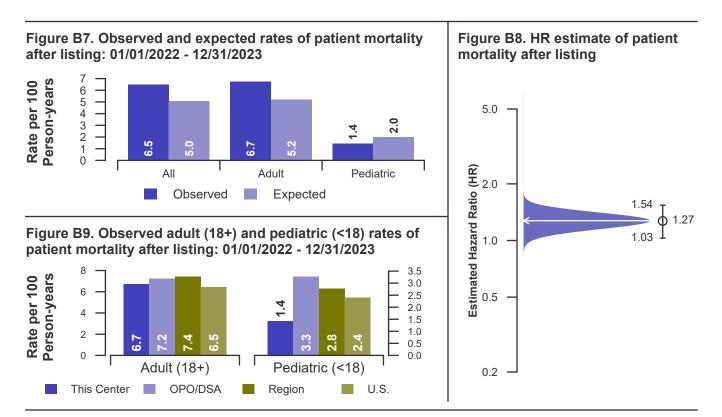
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Table B6. Rates of patient mortality after listing: 01/01/2022 - 12/31/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	1,120	3,230	9,076	80,020
Person-years*	1,484.3	4,187.6	12,008.4	106,989.7
Number of Deaths	96	290	852	6,659
Adult (18+) Patients				
Count at risk during the evaluation period	1,074	3,013	8,501	75,632
Person-years*	1,413.6	3,880.9	11,212.2	101,002.1
Number of Deaths	95	280	830	6,515
Pediatric (<18) Patients				
Count at risk during the evaluation period	46	217	575	4,388
Person-years*	70.7	306.7	796.2	5,987.6
Number of Deaths	1	10	22	144

^{*} Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2022, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 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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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 07/01/2021 and 06/30/2022

Waiting list status (survival status)	This Center (N=190) Months Since Listing 6 12 18			U.S. (N=13,642) Months Since Listing 6 12 18		
Alive on waiting list (%)	42.1	28.4	23.7	37.8	21.8	14.0
Died on the waiting list without transplant (%)	3.7	4.2	5.3	4.2	5.2	5.8
Removed without transplant (%):						
Condition worsened (status unknown)	3.2	4.2	4.7	3.8	5.2	6.0
Condition improved (status unknown)	0.0	0.0	0.0	1.3	2.4	3.6
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.3	0.4
Other	1.1	1.1	2.6	1.7	3.0	4.0
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	3.7	7.9	5.3	3.0	3.7	2.4
Failed-Retransplanted (alive)	0.0	0.5	0.5	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	0.1	0.2
Status Yet Unknown**	0.0	0.0	3.2	0.0	0.1	1.7
Transplant (deceased donor) (%):						
Functioning (alive)	45.8	50.0	29.5	43.6	48.8	34.3
Failed-Retransplanted (alive)	0.0	1.1	1.1	0.4	0.5	0.7
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.5	1.6	2.3	3.3	4.2
Status Yet Unknown*	0.5	2.1	22.6	1.5	5.0	22.1
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.4	0.6
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	3.7	4.7	6.8	6.5	8.6	10.1
Total % known died or removed as unstable	6.8	8.9	11.6	10.3	13.9	16.2
Total % removed for transplant	50.0	62.1	63.7	50.9	61.6	65.6
Total % with known functioning transplant (alive)	49.5	57.9	34.7	46.6	52.5	36.8

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



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Transplant Program (Organ): Liver

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Table B7S1. Medical urgency status 1 candidate status after listing Candidates registered on the waiting list between 07/01/2021 and 06/30/2022

Waiting list status (survival status)	This Center (N=2) Months Since listing 6 12 18			U.S. (N=456) Months Since listing 6 12 18		
Alive on waiting list (%)	0.0	0.0	0.0	3.3	1.8	1.1
Died on the waiting list without transplant (%)	0.0	0.0	0.0	8.3	8.3	8.3
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	5.0	5.0	5.3
Condition improved (status unknown)	0.0	0.0	0.0	15.8	17.3	17.8
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.2	0.2
Other	0.0	0.0	0.0	0.7	0.7	0.7
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	2.0	1.5	1.1
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	0.0	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	55.3	48.5	34.0
Failed-Retransplanted (alive)	0.0	0.0	0.0	1.1	1.3	1.3
Failed-alive not retransplanted	0.0	0.0	0.0	0.2	0.2	0.0
Died	0.0	0.0	0.0	6.6	7.5	8.1
Status Yet Unknown*	0.0	0.0	50.0	0.9	6.6	20.6
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.7	0.7	0.7
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	14.9	16.0	16.7
Total % known died or removed as unstable	0.0	0.0	0.0	20.0	21.1	21.9
Total % removed for transplant	100.0	100.0	100.0	66.0	66.0	66.0
Total % with known functioning transplant (alive)	100.0	100.0	50.0	57.2	50.0	35.1

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



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Transplant Program (Organ): Liver

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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2018 and 12/31/2020

	Percent transplanted at time periods since listing									
Characteristic		TI	nis Cen	ter			Un	ited Sta	ates	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	499	19.8	45.7	51.3	53.5	38,471	24.3	53.2	59.1	60.9
Ethnicity/Race*										
White	381	20.7	45.9	51.4	53.5	26,281	24.5	54.0	59.5	61.2
African-American	69	13.0	42.0	46.4	50.7	2,973	27.6	56.7	62.3	64.0
Hispanic/Latino	29	20.7	48.3	55.2	55.2	6,742	22.1	50.1	56.8	58.8
Asian	20	25.0	50.0	60.0	60.0	1,805	22.6	48.6	56.8	59.6
Other	0					670	27.0	53.0	58.8	60.4
Unknown	0					0				
Age										
<2 years	3	66.7	66.7	66.7	66.7	816	23.8	73.7	76.1	77.2
2-11 years	8	37.5	87.5	87.5	87.5	600	25.7	69.3	74.2	75.8
12-17 years	7	28.6	71.4	71.4	71.4	439	21.0	58.5	64.9	66.7
18-34 years	30	26.7	63.3	70.0	73.3	2,384	35.6	55.5	59.9	61.2
35-49 years	105	31.4	45.7	52.4	54.3	6,986	34.9	57.7	62.3	63.8
50-64 years	259	15.8	42.5	47.5	49.8	18,777	22.5	52.2	58.4	60.4
65-69 years	71	9.9	39.4	47.9	50.7	6,505	16.2	47.9	55.2	57.1
70+ years	16	18.8	56.2	56.2	56.2	1,964	17.0	47.6	54.1	55.2
Gender										
Male	298	21.1	49.7	53.4	56.0	23,956	24.2	54.4	60.3	62.2
Female	201	17.9	39.8	48.3	49.8	14,515	24.5	51.4	57.1	58.8

^{*} 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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Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 01/01/2018 and 12/31/2020

Characteristic			ercent to		nted at t	ime per	iods sin Un	ice listi	_	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	499	19.8	45.7	51.3	53.5	38,471	24.3	53.2	59.1	60.9
Blood Type										
0	206	15.5	43.7	49.0	51.9	17,956	22.9	50.8	57.0	58.9
Α	200	24.0	44.5	51.5	53.5	14,291	23.4	51.4	57.6	59.4
В	69	17.4	49.3	52.2	53.6	4,698	28.1	61.6	66.6	68.0
AB	24	29.2	62.5	66.7	66.7	1,526	37.5	73.3	76.0	76.6
Previous Transplant										
Yes	26	26.9	53.8	53.8	53.8	1,849	31.7	55.1	59.4	60.6
No	473	19.5	45.2	51.2	53.5	36,622	23.9	53.2	59.1	60.9
Primary Disease										
Acute Hepatic Necrosis	26	84.6	88.5	88.5	88.5	1,845	55.7	64.6	66.2	66.7
Non-Cholestatic Cirrhosis	322	18.3	40.4	46.0	48.8	25,491	25.7	52.8	58.1	59.9
Cholestatic Liver	31	16.1	38.7	51.6	51.6	2,485	19.8	51.8	59.5	61.4
Disease/Cirrhosis	31	10.1	30.7	51.0	51.0	2,403	19.0	31.0	59.5	01.4
Biliary Atresia	6	16.7	66.7	66.7	66.7	723	16.7	66.7	72.1	73.6
Metabolic Diseases	9	11.1	55.6	55.6	55.6	857	27.4	70.2	74.6	76.2
Malignant Neoplasms	76	2.6	51.3	55.3	57.9	4,898	8.0	47.4	57.1	59.3
Other	29	31.0	51.7	62.1	62.1	2,155	24.2	52.3	58.8	61.3
Missing	0					17	29.4	35.3	41.2	41.2
Medical Urgency Status/MELD/		at Listing	g*							
Status 1	0					0				
Status 1A	10	90.0	90.0	90.0	90.0	1,178	8.06	61.1	61.3	61.4
Status 1B	3	66.7	66.7	66.7	66.7	135	51.9	82.2	82.2	82.2
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	146	0.0	24.7	30.8	31.5	6,971	2.5	37.4	48.0	51.1
MELD 11-14	82	1.2	26.8	39.0	45.1	4,971	3.2	34.0	43.8	47.0
MELD 15-20	85	5.9	37.6	43.5	48.2	8,014	10.4	46.3	53.6	55.7
MELD 21-30	96	30.2	63.5	66.7	67.7	8,887	31.6	63.7	67.1	68.1
MELD 31-40	56	76.8	85.7	85.7	85.7	4,393	74.4	81.7	81.8	81.9
PELD less than or equal to 10	6	33.3	100.0	100.0	100.0	637	10.8	72.2	77.9	80.5
PELD 11-14	0					104	19.2	77.9	82.7	83.7
PELD 15-20	0					156	23.1	78.2	79.5	79.5
PELD 21-30	1	0.0	0.0	0.0	0.0	122	25.4	77.0	78.7	78.7
PELD 31 or greater	0					42	45.2	69.0	69.0	69.0
Temporarily Inactive	14	57.1	85.7	92.9	92.9	2,861	39.5	56.2	59.6	60.6

^{*} 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

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 01/01/2018 and 06/30/2023

	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	1.2	0.9	0.9	0.7		
50th (median time to transplant)	9.1	8.9	8.0	6.6		
75th	Not Observed	Not Observed	Not Observed	Not Observed		

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

^{**} Censored on 12/31/2023. 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: 01/01/2023 - 12/31/2023

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	12,206	28,637	53,822	360,349
Number of Acceptances	87	274	775	8,781
Expected Acceptances	117.9	384.7	1,112.4	8,781.2
Offer Acceptance Ratio*	0.74	0.71	0.70	1.00
95% Credible Interval**	[0.60, 0.90]			
PHS increased infectious risk				
Number of Offers	929	2,653	5,703	42,733
Number of Acceptances	16	43	128	1,509
Expected Acceptances	19.5	62.2	191.5	1,512.5
Offer Acceptance Ratio*	0.84	0.70	0.67	1.00
95% Credible Interval**	[0.50, 1.26]			
DCD donor				
Number of Offers	6,087	13,125	20,063	135,763
Number of Acceptances	2	21	53	1,536
Expected Acceptances	20.3	56.6	152.6	1,547.0
Offer Acceptance Ratio*	0.18	0.39	0.36	0.99
95% Credible Interval**	[0.05, 0.39]			
HCV+ donor				
Number of Offers	163	583	1,128	10,038
Number of Acceptances	4	13	25	324
Expected Acceptances	4.4	16.2	37.3	335.5
Offer Acceptance Ratio*	0.93	0.82	0.69	0.97
95% Credible Interval**	[0.34, 1.82]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	10,206	22,495	36,842	234,866
Number of Acceptances	7	30	79	1,256
Expected Acceptances	27.5	83.0	201.7	1,399.9
Offer Acceptance Ratio*	0.31	0.38	0.40	0.90
95% Credible Interval**	[0.14, 0.53]			
Donor more than 500 miles away				
Number of Offers	4,487	10,045	14,828	123,447
Number of Acceptances	9	30	72	1,089
Expected Acceptances	15.2	53.5	114.0	1,091.2
Offer Acceptance Ratio*	0.64	0.58	0.64	1.00
95% Credible Interval**	[0.32, 1.07]			

^{*} 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).

^{**} As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.60, 0.90], indicates the location of MDJH's true offer acceptance ratio with 95% probability. The best estimate is 26% less likely to accept an offer compared to national acceptance behavior, but MDJH's performance could plausibly range from 40% reduced acceptance up to 10%



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Figure B10. Offer acceptance: Overall

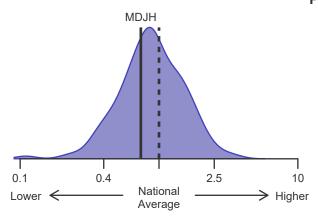


Figure B11. Offer acceptance: PHS increased infectious risk

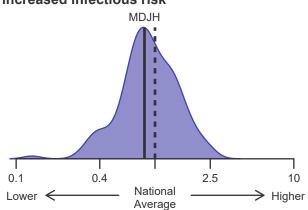
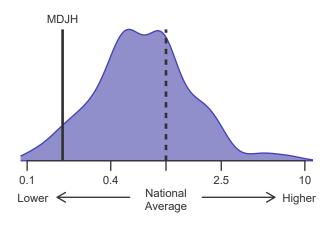


Figure B12. Offer acceptance: DCD Donor

Figure B13. Offer acceptance: HCV+ Donor



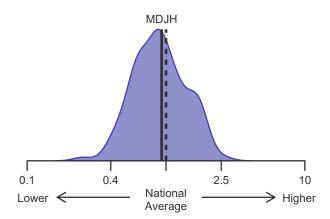
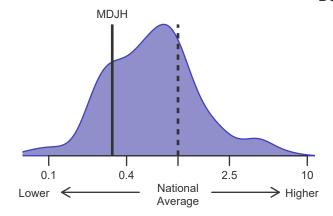
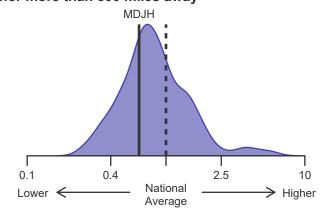


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance: Donor more than 500 miles away







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C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2023 and 12/31/2023

	Percentage in each category			
Characteristic	Center (N=96)	Region (N=867)	U.S. (N=10,001)	
Ethnicity/Race (%)*				
White	67.7	72.3	68.4	
African-American	19.8	11.9	7.3	
Hispanic/Latino	4.2	8.5	17.9	
Asian	8.3	5.8	4.2	
Other	0.0	0.9	1.9	
Unknown	0.0	0.6	0.4	
Age (%)				
<2 years	0.0	2.0	1.7	
2-11 years	0.0	2.8	1.8	
12-17	0.0	0.9	1.1	
18-34	4.2	6.3	6.8	
35-49 years	27.1	22.7	22.3	
50-64 years	45.8	45.3	45.0	
65-69 years	18.8	14.5	14.7	
70+ years	4.2	5.4	6.5	
Gender (%)				
Male	66.7	62.7	61.2	
Female	33.3	37.3	38.8	

^{*} 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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C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 01/01/2023 and 12/31/2023

	Percentage in each category			
Characteristic	Center (N=26)	Region (N=166)	U.S. (N=658)	
Ethnicity/Race (%)*				
White	76.9	88.6	74.2	
African-American	11.5	5.4	5.9	
Hispanic/Latino	7.7	3.0	14.3	
Asian	3.8	2.4	4.4	
Other	0.0	0.6	0.9	
Unknown	0.0	0.0	0.3	
Age (%)				
<2 years	7.7	6.0	6.8	
2-11 years	7.7	4.8	4.6	
12-17	0.0	0.0	0.5	
18-34	15.4	14.5	11.2	
35-49 years	23.1	18.1	19.5	
50-64 years	26.9	34.9	35.6	
65-69 years	7.7	13.9	15.8	
70+ years	11.5	7.8	6.1	
Gender (%)				
Male	61.5	59.6	50.8	
Female	38.5	40.4	49.2	

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



Center Code: MDJH Transplant Program (Organ): Liver

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C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2023 and 12/31/2023

	Percentage in each category			
Characteristic	Center (N=96)	Region (N=867)	U.S. (N=10,001)	
Blood Type (%)				
0	41.7	43.8	46.6	
A	37.5	34.9	35.8	
В	14.6	15.9	12.7	
AB	6.2	5.3	4.9	
Previous Transplant (%)				
Yes	2.1	4.0	4.2	
No	97.9	96.0	95.8	
Body Mass Index (%)				
0-20	9.4	12.3	10.3	
21-25	34.4	26.2	26.4	
26-30	27.1	31.4	30.3	
31-35	19.8	18.2	19.1	
36-40	2.1	5.9	8.1	
41+	6.2	3.9	4.2	
Unknown	1.0	2.1	1.6	
Primary Disease (%)				
Acute Hepatic Necrosis	0.0	4.0	2.4	
Non-Cholestatic Cirrhosis	25.0	24.5	31.6	
Cholestatic Liver Disease/Cirrhosis	3.1	3.3	6.1	
Biliary Atresia	2.1	1.0	1.7	
Metabolic Diseases	2.1	3.5	2.4	
Malignant Neoplasms	10.4	11.9	11.1	
Other	57.3	51.7	44.6	
Missing	0.0	0.1	0.0	
Medical Urgency Statust/MELD/PELD at Transplant (%)*				
Status 1A	1.0	4.0	2.7	
Status 1B	0.0	2.2	1.2	
MELD 6-10	9.4	8.1	8.8	
MELD 11-14	8.3	5.7	7.9	
MELD 15-20	11.5	13.0	17.1	
MELD 21-30	45.8	30.1	30.8	
MELD 31-40	17.7	27.0	22.6	
PELD less than or equal to 10	0.0	8.0	1.0	
PELD 11-14	0.0	0.2	0.3	
PELD 15-20	0.0	0.0	0.4	
PELD 21-30	0.0	0.2	0.3	
PELD 31 or greater	0.0	0.2	0.1	
Temporarily Inactive	0.0	0.0	0.0	
Recipient Medical Condition at Transplant (%)				
Not Hospitalized	38.5	52.5	58.5	
Hospitalized	45.8	30.7	24.5	
ICU	15.6	16.8	16.9	
Unknown	0.0	0.0	0.1	

^{*} 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



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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 01/01/2023 and 12/31/2023

	Percentage in each category			
Characteristic	Center (N=26)	Region (N=166)	U.S. (N=658)	
Blood Type (%)				
0	42.3	38.6	45.4	
A	50.0	47.0	41.6	
В	7.7	10.2	10.5	
AB	0.0	4.2	2.4	
Previous Transplant (%)				
Yes	0.0	1.8	1.5	
No	100.0	98.2	98.5	
Body Mass Index (%)	00.4	40.0	47.0	
0-20	23.1	16.3	17.8	
21-25	42.3	33.7	30.9	
26-30	26.9	28.9	29.2	
31-35	3.8	13.9	14.6	
36-40	3.8	4.2	4.9	
41+	0.0	1.8	2.1	
Unknown	0.0	1.2	0.6	
Primary Disease (%)	0.0	0.0	0.5	
Acute Hepatic Necrosis	0.0	0.0	0.5	
Non-Cholestatic Cirrhosis	7.7	26.5	31.9	
Cholestatic Liver Disease/Cirrhosis	30.8	16.3	20.5	
Biliary Atresia	11.5	7.8	9.1	
Metabolic Diseases	0.0	4.2	1.8	
Malignant Neoplasms	3.8 46.2	16.9 28.3	11.7 24.5	
Other	40.2 0.0	20.3 0.0	0.0	
Missing Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0.0	
Status 1A	0.0	0.0	0.2	
Status 1B	0.0	2.4	0.2	
MELD 6-10	42.3	28.3	25.7	
MELD 11-14	3.8	26.3 15.1	19.9	
MELD 15-14 MELD 15-20	38.5	33.7	29.3	
MELD 21-30	0.0	9.6	10.3	
MELD 31-40	0.0	2.4	1.4	
PELD less than or equal to 10	7.7	4.2	5.3	
PELD 11-14	0.0	0.0	0.9	
PELD 15-14 PELD 15-20	3.8	3.6	2.4	
PELD 13-20 PELD 21-30	3.8	0.6	0.8	
PELD 31 or greater	0.0	0.0	0.8	
Temporarily Inactive	0.0	0.0	2.1	
Recipient Medical Condition at Transplant (%)	0.0	0.0	۷.۱	
Not Hospitalized	73.1	91.6	89.5	
Hospitalized	23.1	7.2	8.4	
ICU	3.8	1.2	2.1	
Unknown	0.0	0.0	0.0	
Officiowii	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



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C. Transplant Information

Table C3D. Deceased donor characteristics
Transplants performed between 01/01/2023 and 12/31/2023

	Percentage in each category			
Donor Characteristic	Center (N=96)	Region (N=867)	U.S. (N=10,001)	
Cause of Death (%)				
Deceased: Stroke	19.8	23.5	24.9	
Deceased: MVA	4.2	9.9	11.7	
Deceased: Other	76.0	66.6	63.4	
Ethnicity/Race (%)*				
White	62.5	61.7	61.8	
African-American	21.9	23.8	19.0	
Hispanic/Latino	9.4	11.5	14.7	
Asian	5.2	2.7	3.0	
Other	1.0	0.3	1.3	
Not Reported	0.0	0.0	0.1	
Age (%)				
<2 years	0.0	0.9	0.7	
2-11 years	0.0	2.7	1.9	
12-17	1.0	4.6	4.0	
18-34	16.7	27.5	28.0	
35-49 years	19.8	25.1	29.7	
50-64 years	45.8	29.1	26.8	
65-69 years	7.3	5.7	4.8	
70+ years	9.4	4.5	4.1	
Gender (%)				
Male	61.5	60.3	61.3	
Female	38.5	39.7	38.7	
Blood Type (%)				
0	43.8	48.1	49.9	
A	38.5	35.9	36.1	
В	13.5	13.0	11.5	
AB	4.2	3.0	2.5	
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 characteristics
Transplants performed between 01/01/2023 and 12/31/2023

	Percentage in each category				
Donor Characteristic	Center	Region	U.S.		
	(N=26)	(N=166)	(N=658)		
Ethnicity/Race (%)*					
White	84.6	90.4	76.7		
African-American	7.7	3.0	3.8		
Hispanic/Latino	3.8	3.0	14.1		
Asian	3.8	3.0	3.5		
Other	0.0	0.6	1.7		
Not Reported	0.0	0.0	0.2		
Age (%)					
0-11 years	0.0	0.0	0.2		
12-17	0.0	0.0	0.0		
18-34	34.6	35.5	39.5		
35-49 years	34.6	47.0	44.8		
50-64 years	30.8	17.5	15.0		
65-69 years	0.0	0.0	0.5		
70+ years	0.0	0.0	0.0		
Gender (%)					
Male	46.2	42.8	40.9		
Female	53.8	57.2	59.1		
Blood Type (%)					
0	50.0	60.2	65.2		
A	42.3	31.9	28.0		
В	7.7	6.6	5.9		
AB	0.0	1.2	0.9		
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 01/01/2023 and 12/31/2023

	Percentage in each category			
Transplant Characteristic	Center (N=96)	Region (N=867)	U.S. (N=10,001)	
Cold Ischemic Time (Hours): Local (%)				
Deceased: 0-5 hr	85.3	64.2	54.6	
Deceased: 6-10 hr	14.7	30.5	27.3	
Deceased: 11-15 hr	0.0	3.2	9.6	
Deceased: 16-20 hr	0.0	1.1	5.8	
Deceased: 21+ hr	0.0	1.1	2.1	
Not Reported	0.0	0.0	0.7	
Cold Ischemic Time (Hours): Shared (%)				
Deceased: 0-5 hr	71.0	45.4	35.3	
Deceased: 6-10 hr	29.0	50.9	43.7	
Deceased: 11-15 hr	0.0	1.5	10.2	
Deceased: 16-20 hr	0.0	0.9	7.0	
Deceased: 21+ hr	0.0	0.5	2.9	
Not Reported	0.0	0.9	0.9	
Procedure Type (%)				
Single organ	91.7	91.8	90.4	
Multi organ	8.3	8.2	9.6	
Donor Location (%)				
Local Donation Service Area (DSA)	35.4	32.2	34.9	
Another Donation Service Area (DSA)	64.6	67.8	65.1	
Median Time in Hospital After Transplant	15.0 Days	12.0 Days	10.0 Days	



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C. Transplant Information

Table C4L. Living donor transplant characteristics
Transplants performed between 01/01/2023 and 12/31/2023

	Percentage in each category			
Transplant Characteristic	Center (N=26)	Region (N=166)	U.S. (N=658)	
Relation with Donor (%)				
Related	26.9	46.4	47.1	
Unrelated	73.1	53.6	52.7	
Not Reported	0.0	0.0	0.2	
Procedure Type (%)				
Single organ	100.0	99.4	99.8	
Multi organ	0.0	0.6	0.2	
Median Time in Hospital After Transplant	10.0 Days	9.0 Days	11.0 Days	



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C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	286	20,494
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.20% [95.31%-99.13%]	97.16% [96.93%-97.39%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.61%	
Number of observed graft failures (including deaths) during the first month after transplant	8	582
Number of expected graft failures (including deaths) during the first month after transplant	6.82	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.54, 1.94]	

^{*} 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 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.

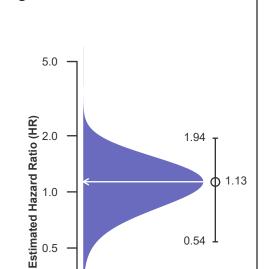
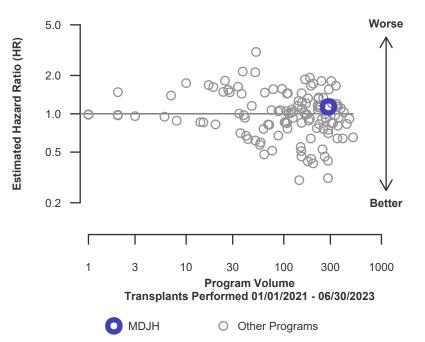


Figure C1. Adult (18+) 1-month

graft failure HR estimate

0.2





^{**} The 95% credible interval, [0.54, 1.94], 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 46% reduced risk up to 94% increased risk.



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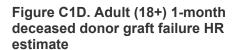
C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	243	19,192
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.53% [95.60%-99.50%]	97.14% [96.91%-97.38%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.64%	
Number of observed graft failures (including deaths) during the first month after transplant	6	548
Number of expected graft failures (including deaths) during the first month after transplant	5.70	
Estimated hazard ratio*	1.04	
95% credible interval for the hazard ratio**	[0.45, 1.87]	

^{*} 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, [0.45, 1.87], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 4% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 55% reduced risk up to 87% increased risk.



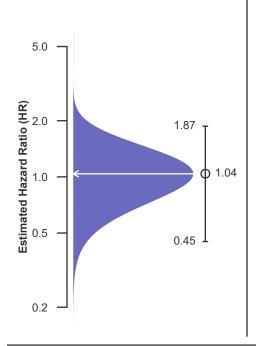
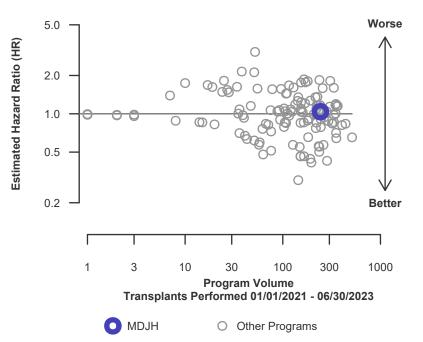


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	43	1,302
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	95.35% [89.26%-100.00%]	97.39% [96.53%-98.26%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.39%	
Number of observed graft failures (including deaths) during the first month after transplant	2	34
Number of expected graft failures (including deaths) during the first month after transplant	1.12	
Estimated hazard ratio*	1.28	
95% credible interval for the hazard ratio**	[0.35, 2.81]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

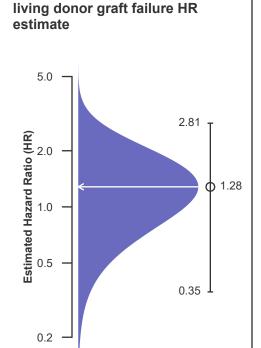
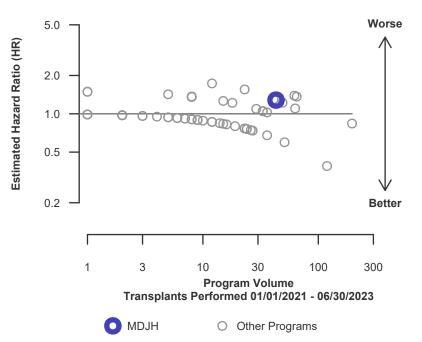


Figure C1L. Adult (18+) 1-month





^{*} The 95% credible interval, [0.35, 2.81], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 28% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 65% reduced risk up to 181% increased risk.



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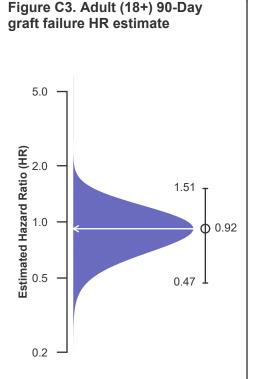
C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

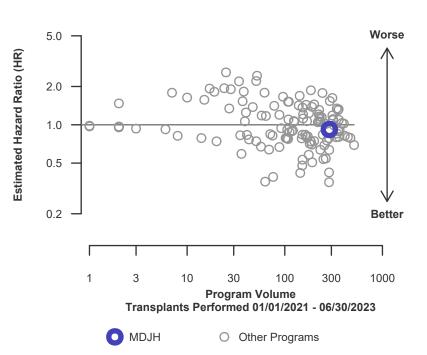
	MDJH	U.S.
Number of transplants evaluated	286	20,494
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	96.50% [94.40%-98.66%]	95.51% [95.22%-95.79%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.12%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	10	921
Number of expected graft failures (including deaths) during the first 90 days after transplant	11.06	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.47, 1.51]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.47, 1.51], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 53% reduced risk up to 51% increased risk.









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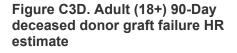
C. Transplant Information

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	243	19,192
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	96.71% [94.49%-98.98%]	95.47% [95.18%-95.77%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.14%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	8	869
Number of expected graft failures (including deaths) during the first 90 days after transplant	9.36	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.42, 1.50]	

^{*} 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, [0.42, 1.50], 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 58% reduced risk up to 50% increased risk.



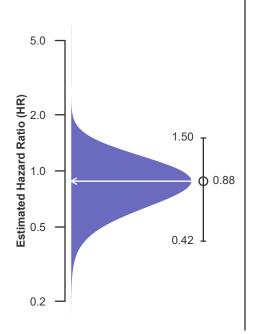
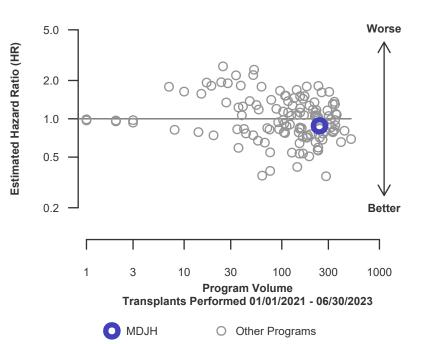


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





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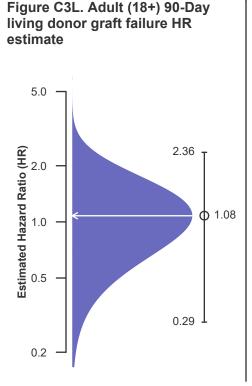
C. Transplant Information

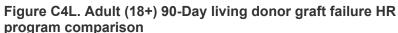
Table C6L. Adult (18+) 90-Day survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

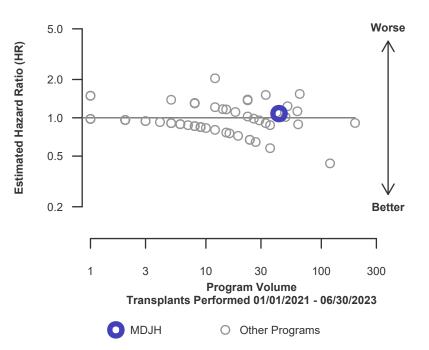
	MDJH	U.S.
Number of transplants evaluated	43	1,302
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	95.35% [89.26%-100.00%]	96.01% [94.95%-97.08%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.01%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	52
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.71	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.29, 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 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, 2.36], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 8% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 71% reduced risk up to 136% increased risk.









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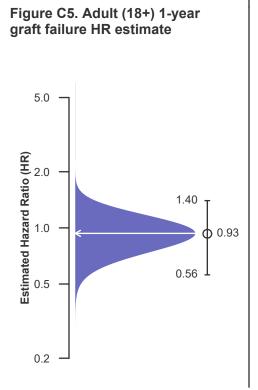
C. Transplant Information

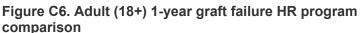
Table C7. Adult (18+) 1-year survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

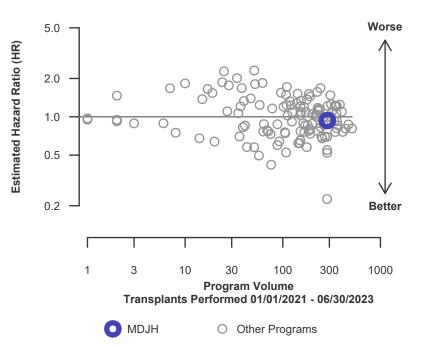
	MDJH	U.S.
Number of transplants evaluated	286	20,494
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	93.76% [90.91%-96.69%]	92.40% [92.02%-92.77%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.34%	
Number of observed graft failures (including deaths) during the first year after transplant	17	1,481
Number of expected graft failures (including deaths) during the first year after transplant	18.33	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.56, 1.40]	

^{*} 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, [0.56, 1.40], 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 44% reduced risk up to 40% increased risk.









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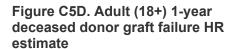
C. Transplant Information

Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	243	19,192
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	93.49% [90.35%-96.75%]	92.32% [91.93%-92.71%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.30%	
Number of observed graft failures (including deaths) during the first year after transplant	15	1,400
Number of expected graft failures (including deaths) during the first year after transplant	15.66	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.56, 1.47]	

^{*} 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, [0.56, 1.47], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 4% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 44% reduced risk up to 47% increased risk.



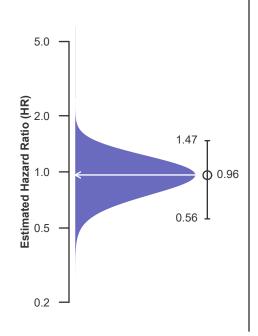
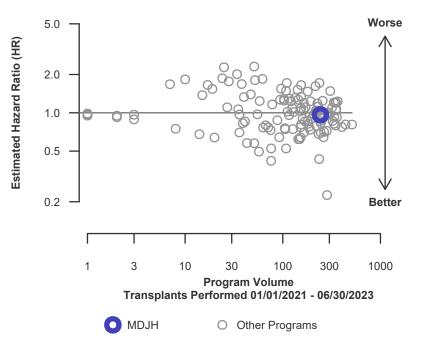


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





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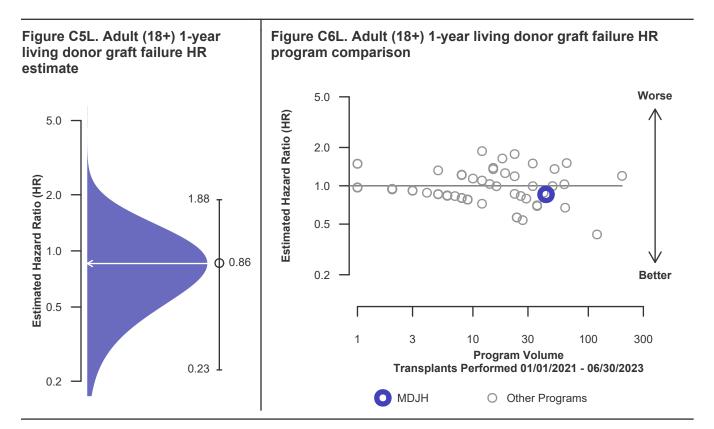
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Table C7L. Adult (18+) 1-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	43	1,302
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.35% [89.26%-100.00%]	93.53% [92.17%-94.91%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.53%	
Number of observed graft failures (including deaths) during the first year after transplant	2	81
Number of expected graft failures (including deaths) during the first year after transplant	2.68	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.23, 1.88]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{*} The 95% credible interval, [0.23, 1.88], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 14% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 77% reduced risk up to 88% increased risk.





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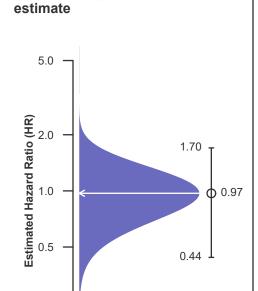
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C. Transplant Information

Table C8. Adult (18+) 1-year Conditional survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	276	19,573
Estimated probability of surviving with a functioning graft at 1 year, among patient with a functioning graft at day 90 & [95% CI] (unadjusted for patient and donor characteristics)	s 97.15% [96.31%-98.01%]	96.74% [96.64%-96.85%]
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)	97.10%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	7	560
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	7.27	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.44, 1.70]	

^{*} 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.

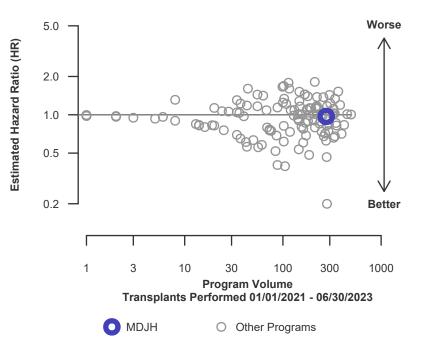


0.2

Figure C7. Adult (18+) 1-year

Conditional graft failure HR





^{**} The 95% credible interval, [0.44, 1.70], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 56% reduced risk up to 70% increased risk.



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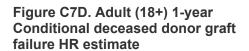
C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	235	18,323
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] (unadjusted for patient and donor characteristics)	s 96.68% [95.62%-97.75%]	96.70% [96.59%-96.81%]
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)	97.05%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	7	531
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	6.30	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.50, 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, [0.50, 1.90], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 8% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 50% reduced risk up to 90% increased risk.



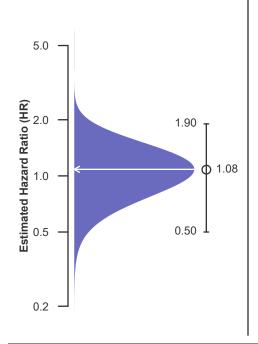
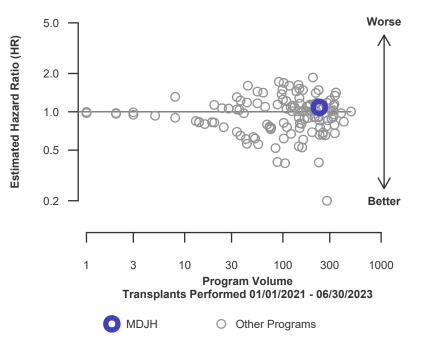


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





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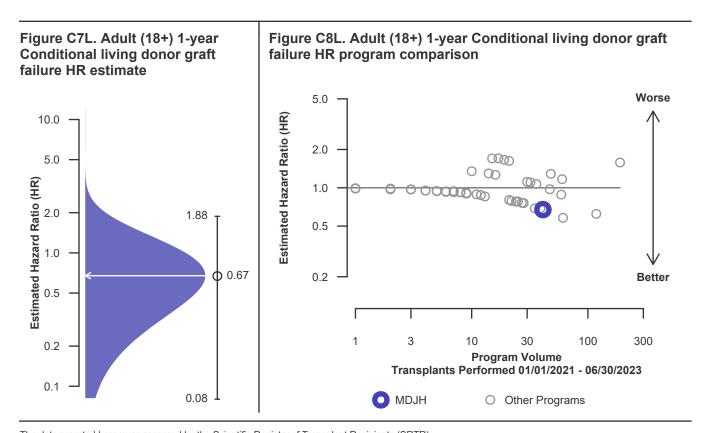
C. Transplant Information

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	41	1,250
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%]	97.42% [97.07%-97.77%]
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)	97.42%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	29
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.97	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.08, 1.88]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected 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, 1.88], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 33% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 92% reduced risk up to 88% increased risk.





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C. Transplant Information

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

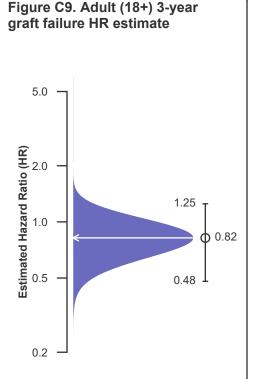
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

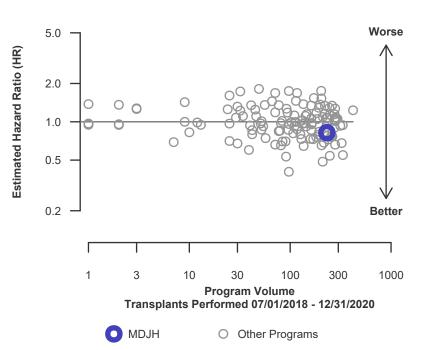
	MDJH	U.S.
Number of transplants evaluated	231	16,846
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	89.70% [84.29%-95.46%]	85.73% [84.95%-86.53%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.55%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	15	1,509
Number of expected graft failures (including deaths) during the first 3 years after transplant	18.71	
Estimated hazard ratio*	0.82	
95% credible interval for the hazard ratio**	[0.48, 1.25]	

^{*} 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, [0.48, 1.25], 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 52% reduced risk up to 25% increased risk.









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C. Transplant Information

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

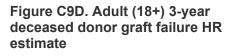
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

Tollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020	MDJH	U.S.
Number of transplants evaluated	196	15,864
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	90.24% [84.80%-96.03%]	85.62% [84.81%-86.45%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.58%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	13	1,429
Number of expected graft failures (including deaths) during the first 3 years after transplant	15.92	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.47, 1.31]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.47, 1.31], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 16% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 53% reduced risk up to 31% increased risk.



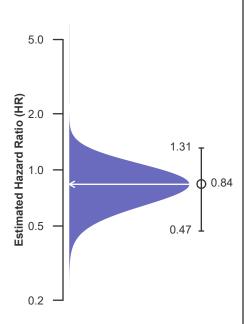
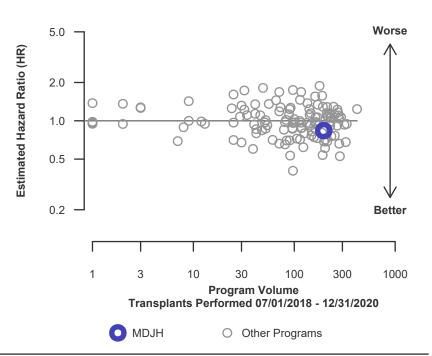


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





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MAD III

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

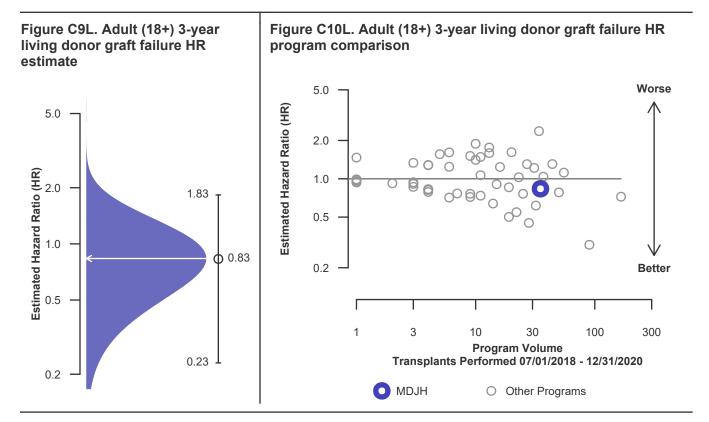
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	35	982
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	86.02% [67.68%-100.00%]	87.38% [84.49%-90.36%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.39%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	80
Number of expected graft failures (including deaths) during the first 3 years after transplant	2.79	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.23, 1.83]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.23, 1.83], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 77% reduced risk up to 83% increased risk.





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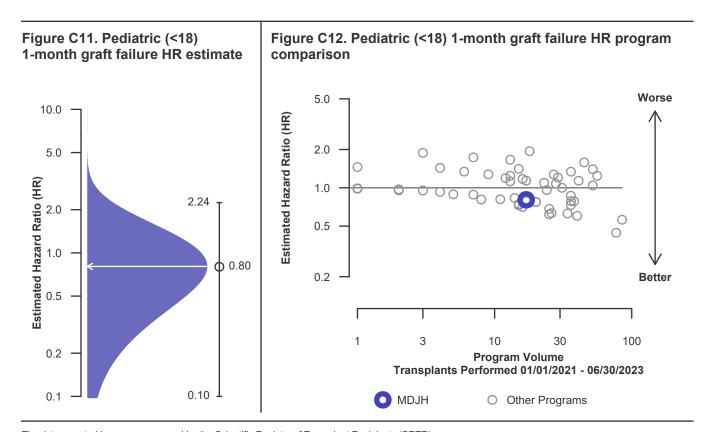
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Table C10. Pediatric (<18) 1-month survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	17	1,229
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%]	95.77% [94.65%-96.90%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.20%	
Number of observed graft failures (including deaths) during the first month after transplant	0	52
Number of expected graft failures (including deaths) during the first month after transplant	0.49	
Estimated hazard ratio*	0.80	
95% credible interval for the hazard ratio**	[0.10, 2.24]	

^{*} 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, 2.24], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 20% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 90% reduced risk up to 124% increased risk.





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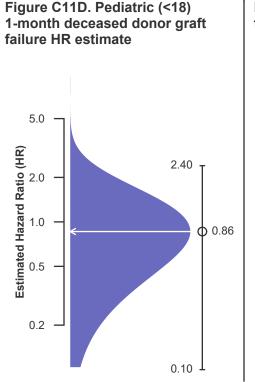
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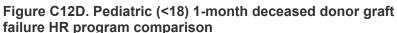
Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

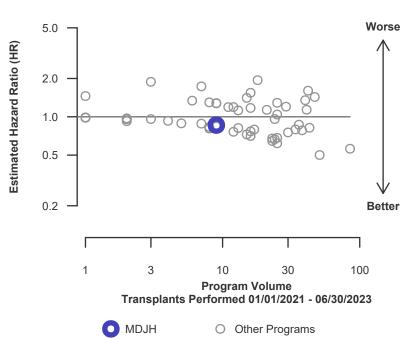
	MDJH	U.S.
Number of transplants evaluated	9	1,028
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.33% [94.05%-96.63%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.47%	
Number of observed graft failures (including deaths) during the first month after transplant	0	48
Number of expected graft failures (including deaths) during the first month after transplant	0.32	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.10, 2.40]	

^{*} 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, 2.40], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 14% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 90% reduced risk up to 140% increased risk.









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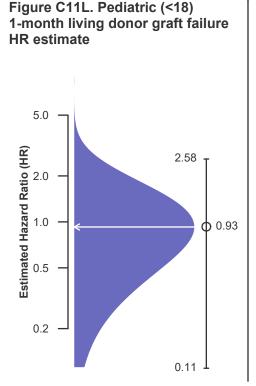
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Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

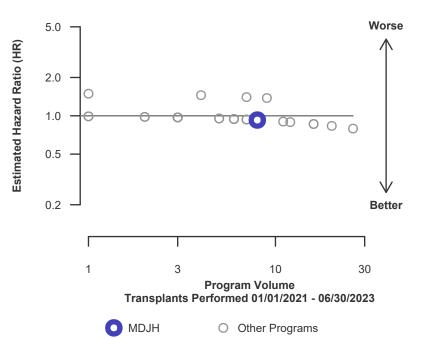
	MDJH	U.S.
Number of transplants evaluated	8	201
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.01% [96.10%-99.96%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.01%	
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	0.16	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.11, 2.58]	

^{*} 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, 2.58], 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 158% increased risk.









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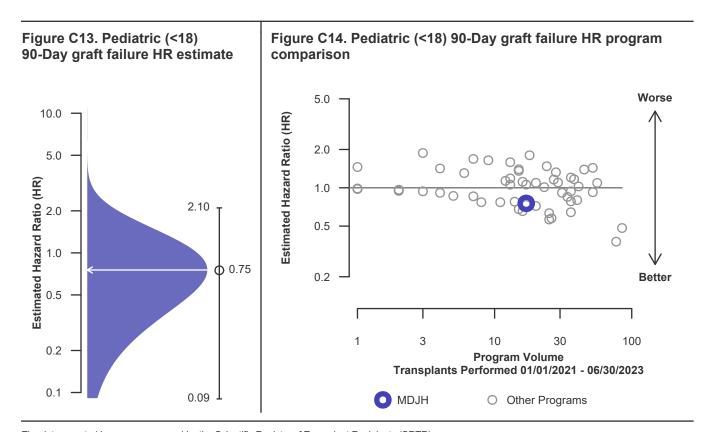
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Table C11. Pediatric (<18) 90-Day survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	17	1,229
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%]	94.71% [93.47%-95.97%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.26%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	65
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.65	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.09, 2.10]	

^{*} 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, 2.10], 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 110% increased risk.





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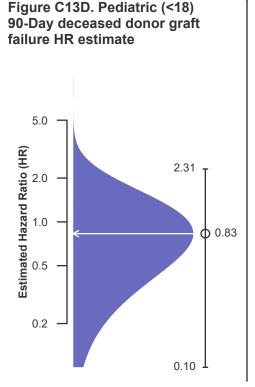
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Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

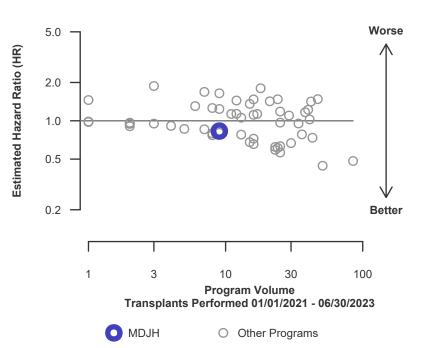
	MDJH	U.S.
Number of transplants evaluated	9	1,028
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	94.26% [92.85%-95.69%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.57%	
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	0.41	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.10, 2.31]	

^{*} 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, 2.31], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 90% reduced risk up to 131% increased risk.









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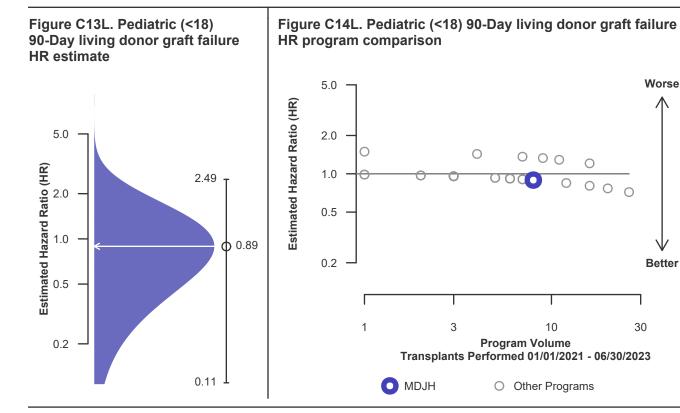
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Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	8	201
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%]	97.01% [94.69%-99.40%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.02%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	6
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.24	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.49]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.49], 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 149% increased risk.





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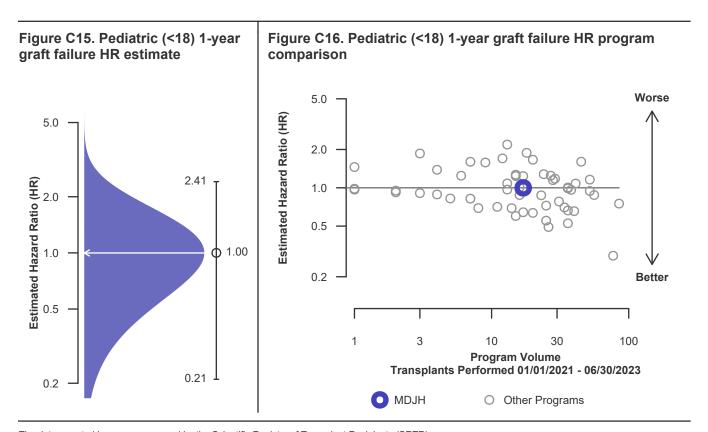
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Table C12. Pediatric (<18) 1-year survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	17	1,229
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	94.12% [83.57%-100.00%]	92.68% [91.21%-94.18%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.17%	
Number of observed graft failures (including deaths) during the first year after transplant	1	87
Number of expected graft failures (including deaths) during the first year after transplant	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 graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.21, 2.41], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 0% lower risk of graft failure 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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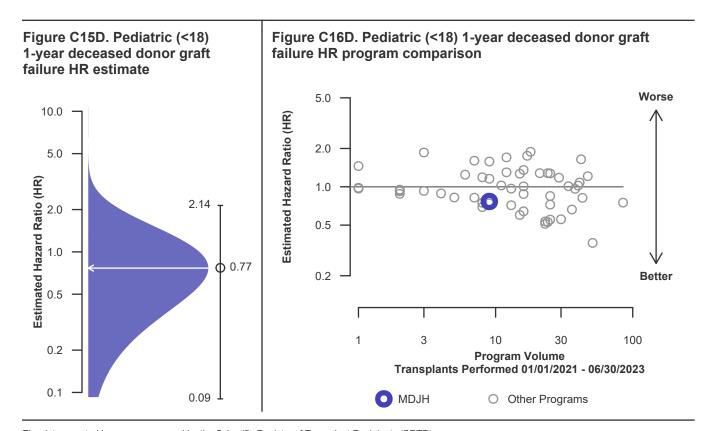
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Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	9	1,028
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%]	92.24% [90.58%-93.93%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.50%	
Number of observed graft failures (including deaths) during the first year after transplant	0	77
Number of expected graft failures (including deaths) during the first year after transplant	0.61	
Estimated hazard ratio*	0.77	
95% credible interval for the hazard ratio**	[0.09, 2.14]	

^{*} 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, [0.09, 2.14], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 23% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 91% reduced risk up to 114% increased risk.





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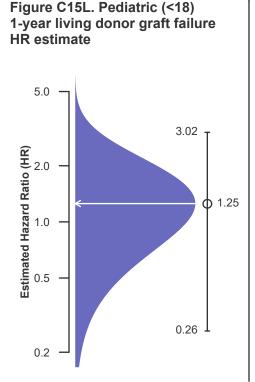
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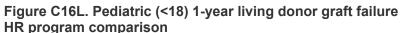
Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

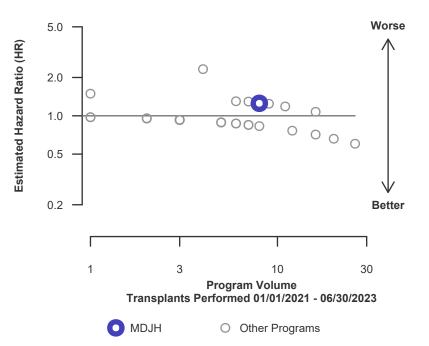
	MDJH	U.S.
Number of transplants evaluated	8	201
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	87.50% [67.34%-100.00%]	94.91% [91.88%-98.04%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.92%	
Number of observed graft failures (including deaths) during the first year after transplant	1	10
Number of expected graft failures (including deaths) during the first year after transplant	0.39	
Estimated hazard ratio*	1.25	
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 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, 3.02], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 25% higher risk of graft failure 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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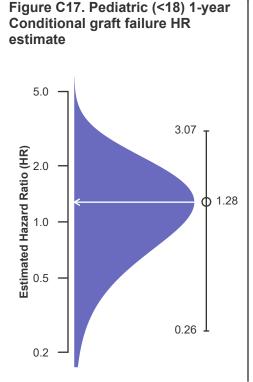
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Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

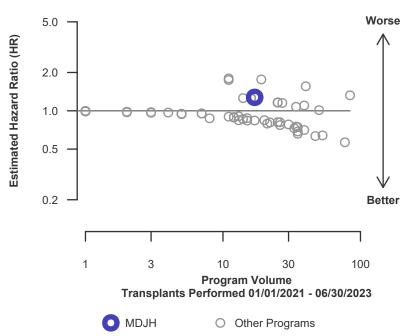
	MDJH	U.S.
Number of transplants evaluated	17	1,164
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [8 (unadjusted for patient and donor characteristics)	s 94.12% 33.57%-100.00%]	97.86% [97.58%-98.14%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.83%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	22
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.35	
Estimated hazard ratio*	1.28	
95% credible interval for the hazard ratio**	[0.26, 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, [0.26, 3.07], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 28% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 74% reduced risk up to 207% increased risk.









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Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	9	969
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%]	97.86% [97.56%-98.16%]
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)	97.83%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	18
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.20	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.11, 2.53]	

^{*} 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.

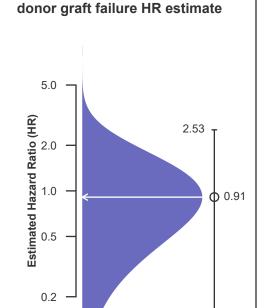
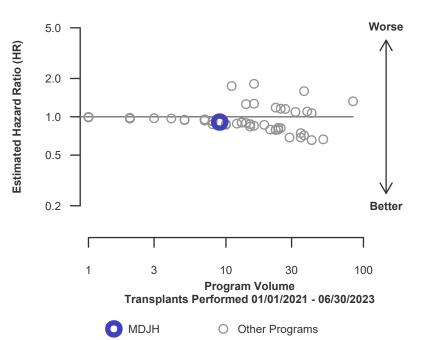


Figure C17D. Pediatric (<18)

1-year Conditional deceased

Figure C18D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR program comparison



0.11

^{**} The 95% credible interval, [0.11, 2.53], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 9% lower risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 153% increased risk.



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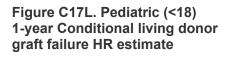
C. Transplant Information

Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 01/01/2021 and 06/30/2023 Deaths and retransplants are considered graft failures

	MDJH	U.S.
Number of transplants evaluated	8	195
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)	87.50% 87.34%-100.00%]	97.83% [97.03%-98.64%]
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)	97.84%	
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	0.15	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.29, 3.36]	

^{*} 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 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, 3.36], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 39% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 71% reduced risk up to 236% increased risk.



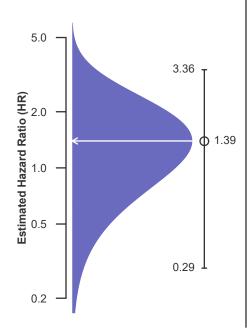
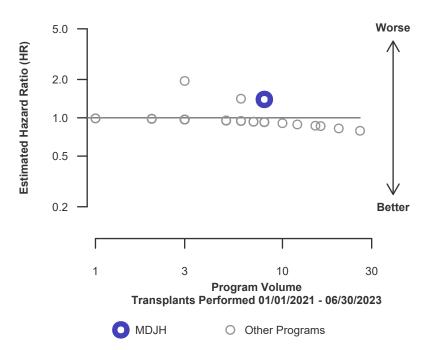


Figure C18L. Pediatric (<18) 1-year Conditional living donor graft failure HR program comparison





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C. Transplant Information

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

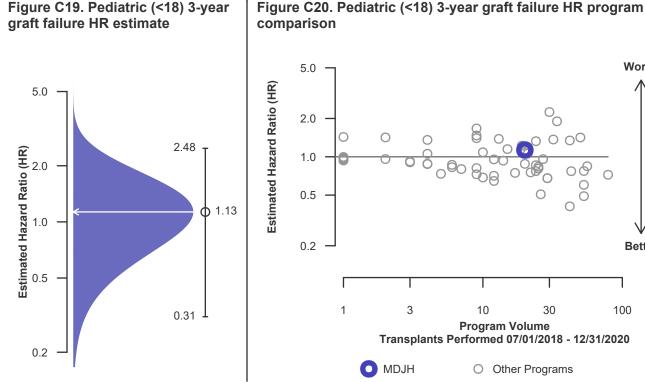
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

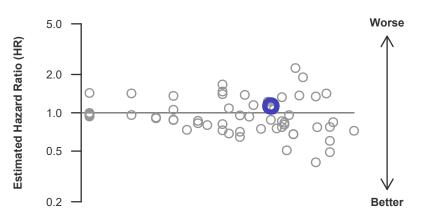
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	MDJH	U.S.
Number of transplants evaluated	20	1,142
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	88.21% [73.93%-100.00%]	89.47% [87.14%-91.87%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.03%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	91
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.54	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.31, 2.48]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{*} The 95% credible interval, [0.31, 2.48], 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 69% reduced risk up to 148% increased risk.





10

Program Volume

O Other Programs

30

3

100



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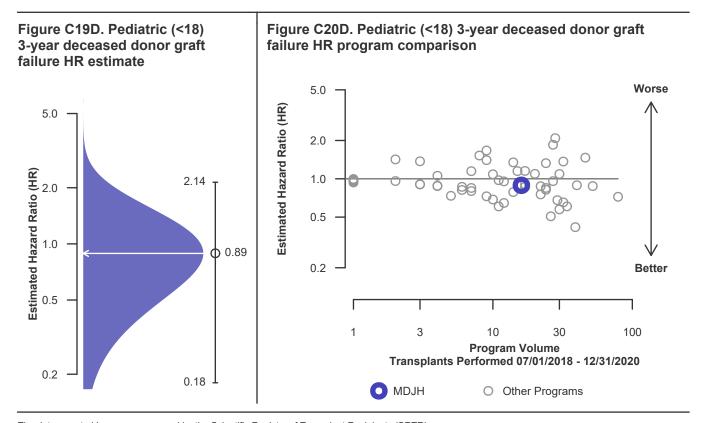
Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

	MDJH	U.S.
Number of transplants evaluated	16	970
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	93.75% [82.61%-100.00%]	89.21% [86.71%-91.79%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.84%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	81
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.37	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.18, 2.14]	

^{*} 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, [0.18, 2.14], 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 82% reduced risk up to 114% increased risk.





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MAD III

C. Transplant Information

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

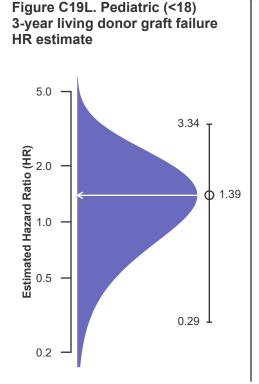
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

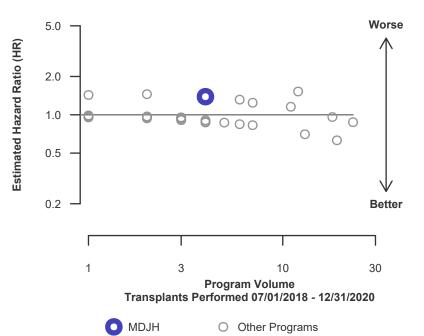
	MDJH	U.S.
Number of transplants evaluated	4	172
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	50.00% [12.50%-100.00%]	90.72% [84.23%-97.71%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.79%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	10
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.16	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.29, 3.34]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.29, 3.34], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 39% higher risk of graft failure compared to an average program, but MDJH's performance could plausibly range from 71% reduced risk up to 234% increased risk.









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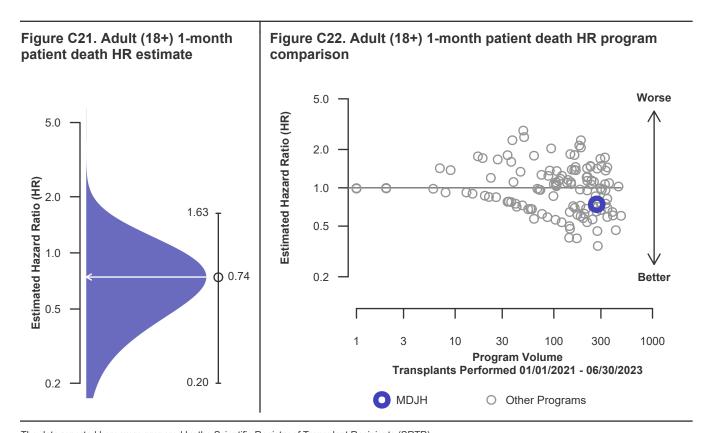
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Table C15. Adult (18+) 1-month patient survival
Single organ transplants performed between 01/01/2021 and 06/30/2023
Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	272	19,818
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.26% [98.25%-100.00%]	98.28% [98.10%-98.46%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.76%	
Number of observed deaths during the first month after transplant	2	341
Number of expected deaths during the first month after transplant	3.39	
Estimated hazard ratio*	0.74	
95% credible interval for the hazard ratio**	[0.20, 1.63]	

^{*} 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, [0.20, 1.63], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 26% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 80% reduced risk up to 63% increased risk.





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Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	229	18,532
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.13% [97.93%-100.00%]	98.21% [98.02%-98.40%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.63%	
Number of observed deaths during the first month after transplant	2	332
Number of expected deaths during the first month after transplant	3.15	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.21, 1.70]	

^{*} 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.

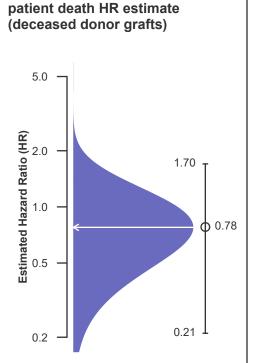
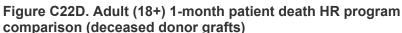
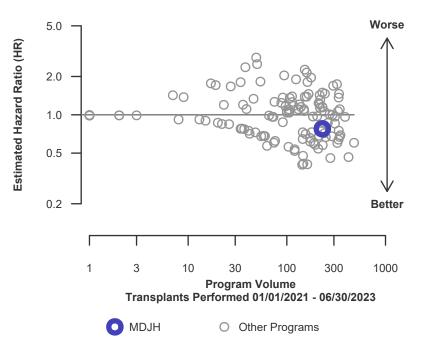


Figure C21D. Adult (18+) 1-month





^{**} The 95% credible interval, [0.21, 1.70], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 22% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 79% reduced risk up to 70% increased risk.



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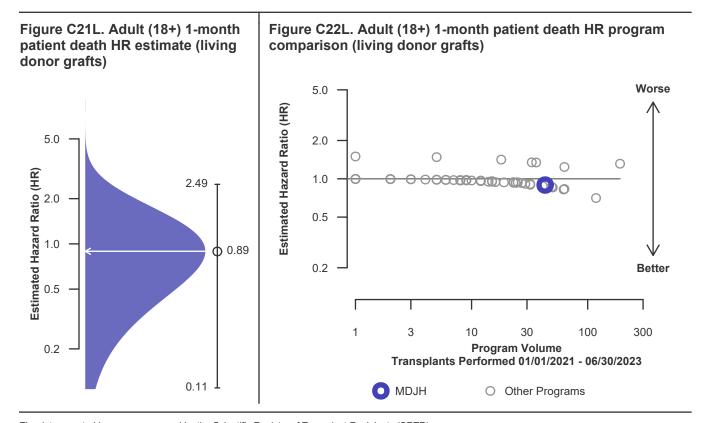
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Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	43	1,286
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.30% [98.85%-99.76%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.44%	
Number of observed deaths during the first month after transplant	0	9
Number of expected deaths during the first month after transplant	0.24	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.49]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected 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, 2.49], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 11% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 149% increased risk.





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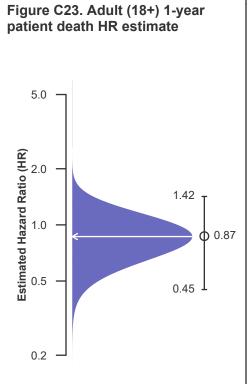
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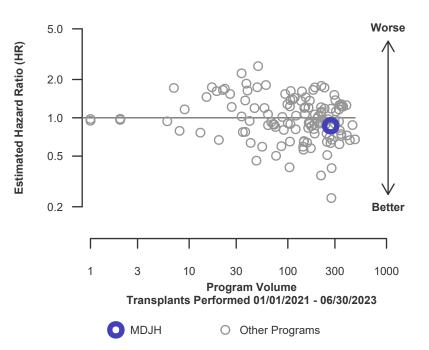
Table C16. Adult (18+) 1-year patient survival
Single organ transplants performed between 01/01/2021 and 06/30/2023
Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	272	19,818
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.01% [93.60%-98.48%]	94.25% [93.92%-94.59%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.45%	
Number of observed deaths during the first year after transplant	10	1,073
Number of expected deaths during the first year after transplant	11.86	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.45, 1.42]	

^{*} 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, [0.45, 1.42], 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 55% reduced risk up to 42% increased risk.



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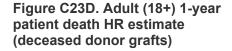
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Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	229	18,532
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	95.27% [92.44%-98.19%]	94.14% [93.79%-94.49%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.22%	
Number of observed deaths during the first year after transplant	10	1,023
Number of expected deaths during the first year after transplant	10.48	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.50, 1.58]	

^{*} 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.



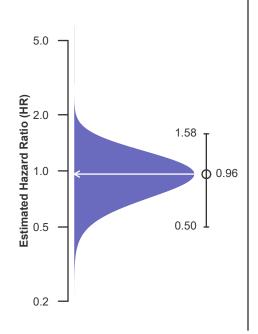
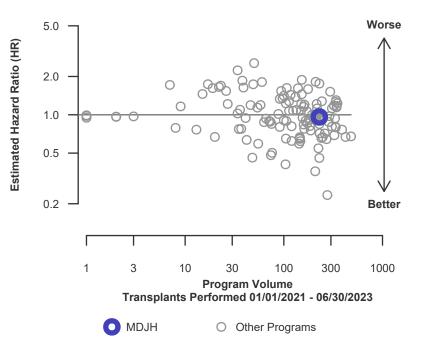


Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.50, 1.58], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 50% reduced risk up to 58% increased risk.



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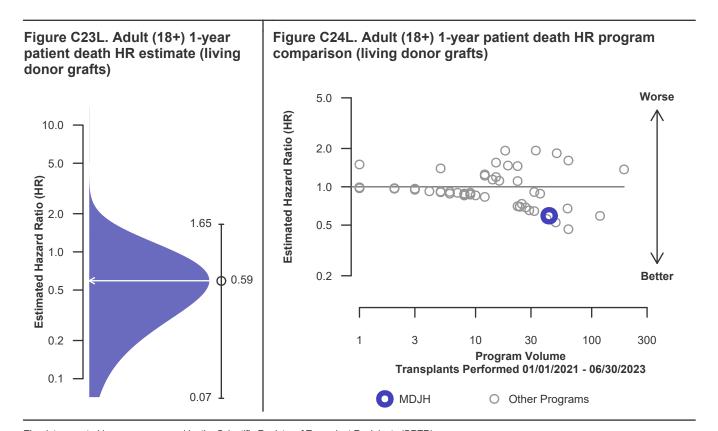
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Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	43	1,286
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.86% [94.74%-97.00%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.66%	
Number of observed deaths during the first year after transplant	0	50
Number of expected deaths during the first year after transplant	1.38	
Estimated hazard ratio*	0.59	
95% credible interval for the hazard ratio**	[0.07, 1.65]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected 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, 1.65], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 41% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 93% reduced risk up to 65% increased risk.





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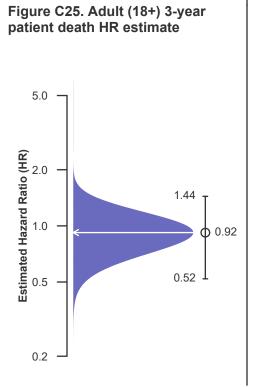
Table C17. Adult (18+) 3-year patient survival

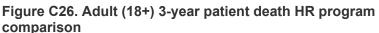
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

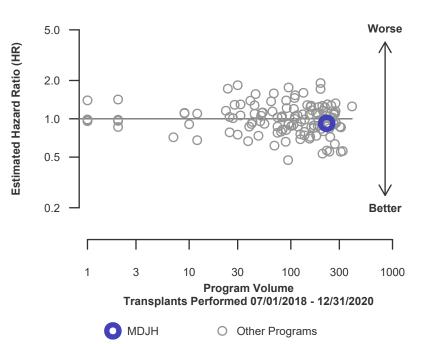
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	MDJH	U.S.
Number of transplants evaluated	225	16,222
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	91.22% [86.28%-96.44%]	88.09% [87.33%-88.86%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	89.42%	
Number of observed deaths during the first 3 years after transplant	13	1,139
Number of expected deaths during the first 3 years after transplant	14.29	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.52, 1.44]	

^{*} 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, [0.52, 1.44], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 8% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 48% reduced risk up to 44% increased risk.



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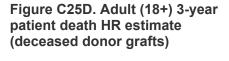
Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	190	15,249
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	92.04% [87.31%-97.02%]	87.90% [87.11%-88.71%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	89.07%	
Number of observed deaths during the first 3 years after transplant	11	1,088
Number of expected deaths during the first 3 years after transplant	12.62	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.47, 1.43]	

^{*} 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.



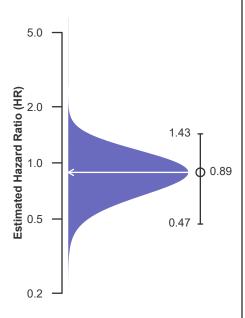
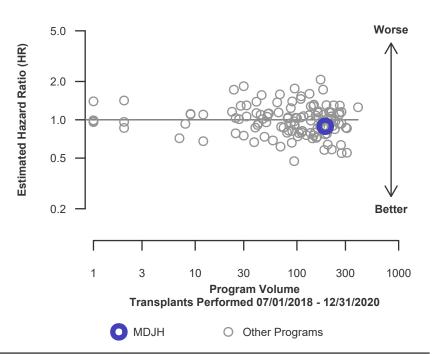


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.47, 1.43], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 11% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 53% reduced risk up to 43% increased risk.



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

Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	35	973
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	86.02% [67.68%-100.00%]	90.88% [88.22%-93.61%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.35%	
Number of observed deaths during the first 3 years after transplant	2	51
Number of expected deaths during the first 3 years after transplant	1.67	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.30, 2.39]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

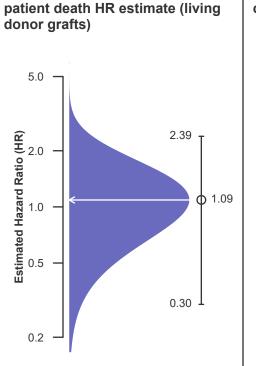
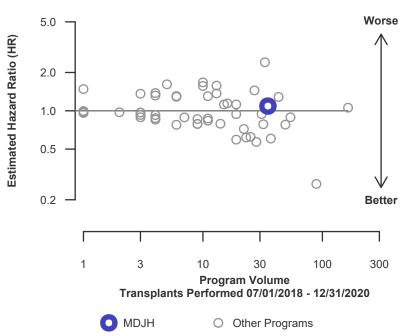


Figure C25L. Adult (18+) 3-year





^{**} The 95% credible interval, [0.30, 2.39], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 9% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 70% reduced risk up to 139% increased risk.



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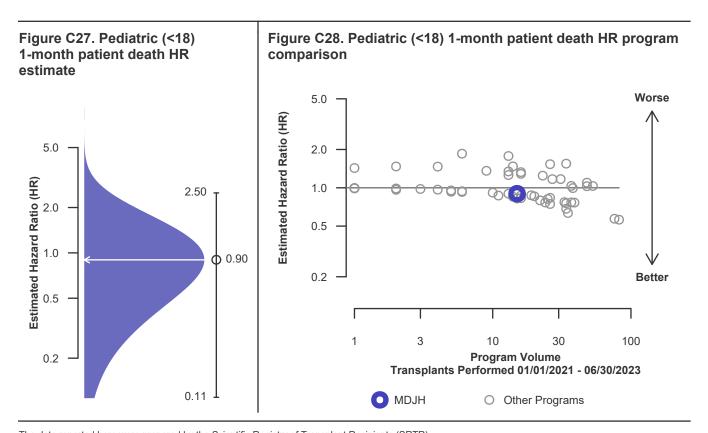
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Table C18. Pediatric (<18) 1-month patient survival
Single organ transplants performed between 01/01/2021 and 06/30/2023
Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	15	1,166
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.77% [96.93%-98.62%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.51%	
Number of observed deaths during the first month after transplant	0	26
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, 2.50]	

^{*} 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, 2.50], 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 150% increased risk.





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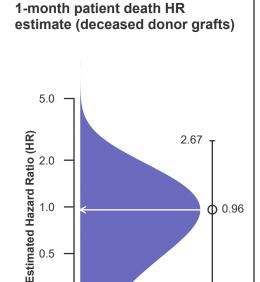
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Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	7	966
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.72% [96.79%-98.67%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.72%	
Number of observed deaths during the first month after transplant	0	22
Number of expected deaths during the first month after transplant	0.09	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

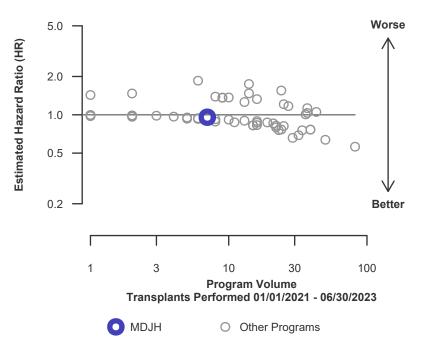
^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher 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.



0.2

Figure C27D. Pediatric (<18)

Figure C28D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)



0.12

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



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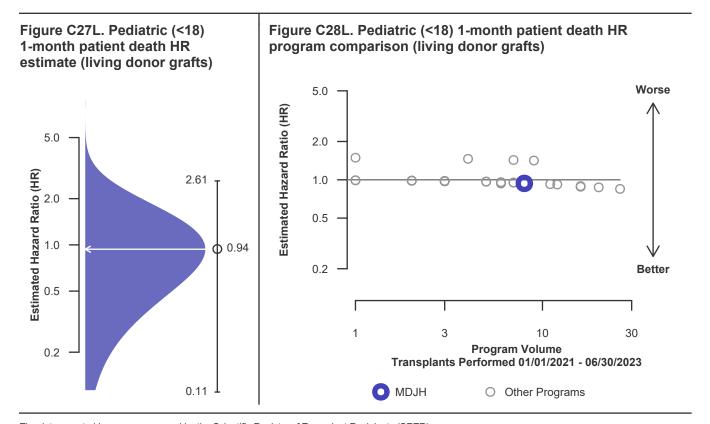
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Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	8	200
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.00% [96.08%-99.96%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.33%	
Number of observed deaths during the first month after transplant	0	4
Number of expected deaths during the first month after transplant	0.13	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.61]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected 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, 2.61], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 6% lower risk of patient death compared to an average program, but MDJH's performance could plausibly range from 89% reduced risk up to 161% increased risk.





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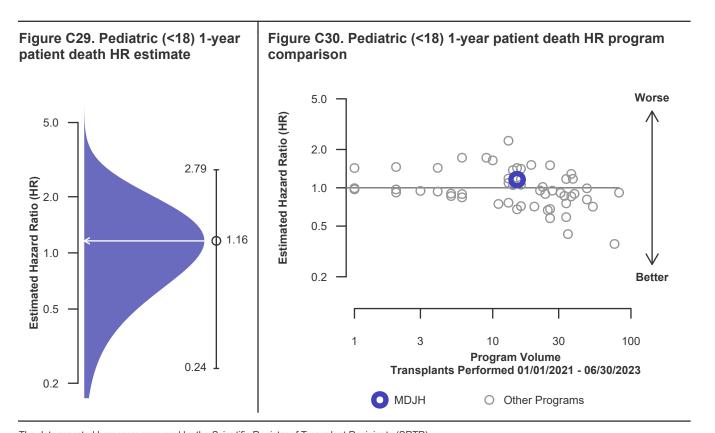
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Table C19. Pediatric (<18) 1-year patient survival
Single organ transplants performed between 01/01/2021 and 06/30/2023
Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	15	1,166
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	93.33% [81.53%-100.00%]	95.16% [93.90%-96.43%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.91%	
Number of observed deaths during the first year after transplant	1	54
Number of expected deaths during the first year after transplant	0.59	
Estimated hazard ratio*	1.16	
95% credible interval for the hazard ratio**	[0.24, 2.79]	

^{*} 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, [0.24, 2.79], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 16% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 76% reduced risk up to 179% increased risk.





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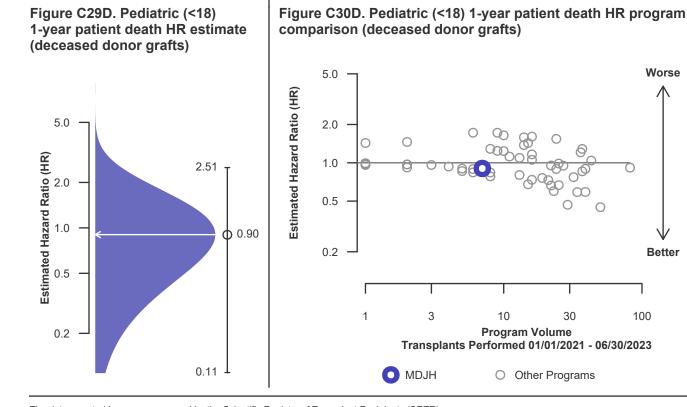
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Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	7	966
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.21% [93.83%-96.61%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.96%	
Number of observed deaths during the first year after transplant	0	44
Number of expected deaths during the first year after transplant	0.22	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.51]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If MDJH's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



Worse

Better

100

30

^{**} 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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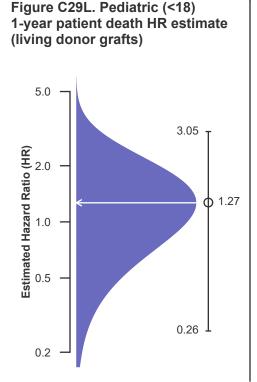
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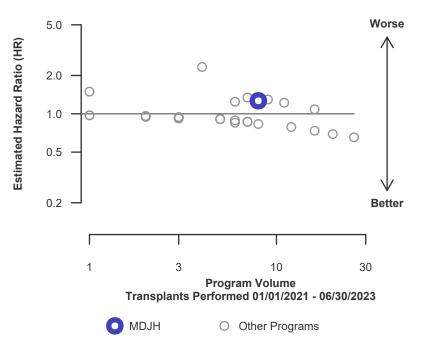
Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2021 and 06/30/2023 Retransplants excluded

	MDJH	U.S.
Number of transplants evaluated	8	200
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	87.50% [67.34%-100.00%]	94.88% [91.84%-98.03%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.00%	
Number of observed deaths during the first year after transplant	1	10
Number of expected deaths during the first year after transplant	0.37	
Estimated hazard ratio*	1.27	
95% credible interval for the hazard ratio**	[0.26, 3.05]	

^{*} 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, 3.05], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 27% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 74% reduced risk up to 205% increased risk.



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C. Transplant Information

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

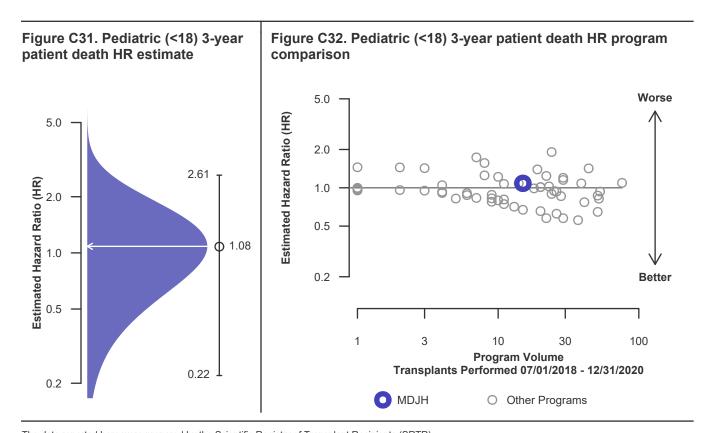
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	15	1,064
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	90.91% [75.41%-100.00%]	92.63% [90.45%-94.86%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.94%	
Number of observed deaths during the first 3 years after transplant	1	54
Number of expected deaths during the first 3 years after transplant	0.77	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.22, 2.61]	

^{*} The hazard ratio provides an estimate of how Johns Hopkins Hospital's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected 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, [0.22, 2.61], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 8% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 78% reduced risk up to 161% increased risk.





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

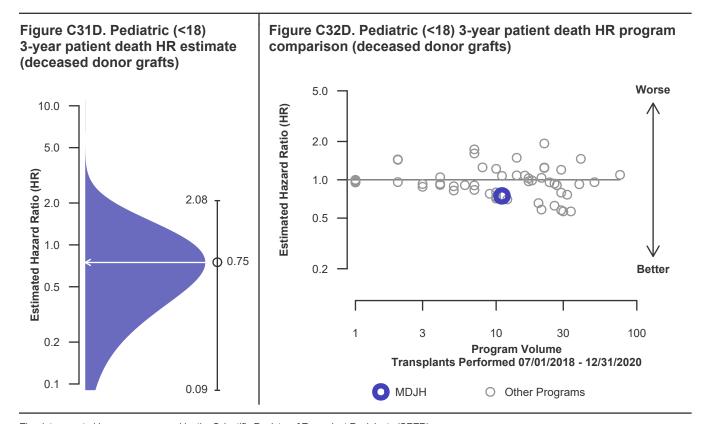
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	11	894
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	92.46% [90.13%-94.85%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.79%	
Number of observed deaths during the first 3 years after transplant	0	48
Number of expected deaths during the first 3 years 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 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, [0.09, 2.08], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 25% lower risk of patient death 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 C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

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

	MDJH	U.S.
Number of transplants evaluated	4	170
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	50.00% [12.50%-100.00%]	93.27% [86.98%-100.00%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.33%	
Number of observed deaths during the first 3 years after transplant	1	6
Number of expected deaths during the first 3 years after transplant	0.09	
Estimated hazard ratio*	1.43	
95% credible interval for the hazard ratio**	[0.30, 3.45]	

^{*} 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 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.

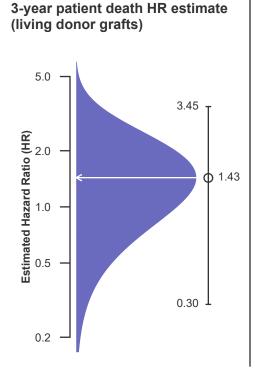
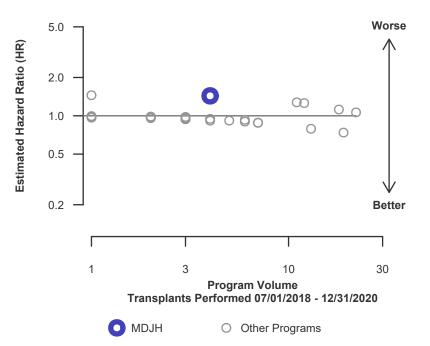


Figure C31L. Pediatric (<18)





^{**} The 95% credible interval, [0.30, 3.45], indicates the location of MDJH's true hazard ratio with 95% probability. The best estimate is 43% higher risk of patient death compared to an average program, but MDJH's performance could plausibly range from 70% reduced risk up to 245% increased risk.



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C. Transplant Information

Table C21. Multi-organ transplant graft survival: 01/01/2021 - 06/30/2023

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Perfor	Transplants Performed		Liver Graft Failures		Estimated Liver Graft Survival	
	MDJH-TX1	USA	MDJH-TX1	USA	MDJH-TX1	USA	
Kidney-Liver	17	1,933	2	179	88.2%	90.7%	
Liver-Heart	1	150	0	29	100.0%	80.7%	
Liver-Lung	1	37	0	7	100.0%	81.1%	

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 01/01/2021 - 06/30/2023

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Perfor	Transplants Performed		Patient Deaths		Estimated Patient Survival	
	MDJH-TX1	USA	MDJH-TX1	USA	MDJH-TX1	USA	
Kidney-Liver	17	1,933	2	169	88.2%	91.3%	
Liver-Heart	1	150	0	28	100.0%	81.3%	
Liver-Lung	1	37	0	7	100.0%	81.1%	

Pediatric (<18) Transplants

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



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D. Living Donor Information

Table D1. Living donor summary: 01/01/2021 - 12/31/2023

	This Center			United States		
Living Donor Follow-Up	01/2021- 12/2021	01/2022- 12/2022	01/2023- 06/2023	01/2021- 12/2021	01/2022- 12/2022	01/2023- 06/2023
Number of Living Donors	19	22	10	566	595	330
6-Month Follow-Up Donors due for follow-up	19	22	8	566	595	272
Timely clinical data	19 100.0%	22 100.0%	7 87.5%	501 88.5%	485 81.5%	232 85.3%
Timely lab data	19 100.0%	22 100.0%	7 87.5%	497 87.8%	497 83.5%	237 87.1%
12-Month Follow-Up Donors due for follow-up	19	22		565	555	
Timely clinical data	18 94.7%	19 86.4%		457 80.9%	448 80.7%	
Timely lab data	18 94.7%	15 68.2%		446 78.9%	445 80.2%	
24-Month Follow-Up Donors due for follow-up	17			515		
Timely clinical data	16 94.1%			342 66.4%		
Timely lab data	16 94.1%			349 67.8%		

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