

SCIENTIFIC REGISTRY OF TRANSPLANT

Mayo Clinic Hospital Minnesota

Center Code: MNMC
 Transplant Program (Organ): Heart
 Release Date: July 9, 2024

RECIPIENTS Based on Data Available: April 30, 2024

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

COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021, July 2021, 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.

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.



S C I E N T I F I CMayo Clinic Hospital MinnesotaR E G I S T R Y OFCenter Code: MNMCT R A N S P L A N TTransplant Program (Organ): Heart
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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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User Guide

This report contains a wide range of useful information about the heart transplant program at Mayo Clinic Hospital Minnesota. The report has three main sections:

- A. Program Summary
- **B.** Waiting List Information
- C. Transplant Information

The Program Summary is a one-page summary highlighting characteristics of the program, including the number of candidates on the waiting list, the number of transplants performed at the program, the number of patients being cared for by the program, and patient outcomes, including outcomes while on the waiting list (the transplant rate and the death rate while on the waiting list) and outcomes after transplant (patient and graft survival probabilities). If the program performed transplants in both adults and children, survival probabilities for adults and children (pediatrics) are provided separately. For each of the outcomes measures presented, a comparison is provided showing what would be expected at this program if it were performing as similar programs around the country perform when treating similar patients. More details regarding these outcome measures are provided in Sections B and C of the report.

The Waiting List Information section contains more detailed information on how many candidates are on the waiting list at the program, the types of candidates on the waiting list, how long candidates typically have to wait for a transplant at this program, how frequently candidates successfully receive a transplant, and how often candidates on the waiting list die before receiving a transplant.

Table B1 shows the activity on this program's waiting list during two recent 1-year periods and provides comparisons to all programs within this program's OPTN region (see http://optn.transplant.hrsa.gov/members/regions.asp for information on OPTN regions) and the nation as a whole. Tables B2 and B3 describe the candidates on the waiting list at this program, with comparisons to candidates waiting in the same donor service area (OPO/DSA) the OPTN region, and the nation as a whole.

Table B4 shows how many candidates were removed from the waiting list because they received a transplant. The program's transplant rate is calculated as the number of candidates who received a transplant divided by the person-years observed at the program (person-years is a combination of how many candidates were on the waiting list along with how long each candidate was followed since some candidates are not on the waiting list for the entire year). The transplant rate and comparisons to what would be expected at this program are presented in Figures B1 and B2. Figure B1 shows the transplant rate compared to what was expected at this program. The expected transplant rate is an estimate of what we would expect at this program if it were performing transplants at rates similar to other programs in the US with similar candidates on their waiting lists. The expected rate is only an estimate, and is made with a certain level of uncertainty. This uncertainty is shown in Figure B2. Figure B2 displays the ratio of the observed to the expected transplant rate. A ratio of 1 indicates that the observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed deceased donor transplant rate at this program was 155.1 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2018 and 06/30/2023. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.2 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 of offers.

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S C I E N T I F I C R E G I S T R Y º T R A N S P L A N T

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

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

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

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

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



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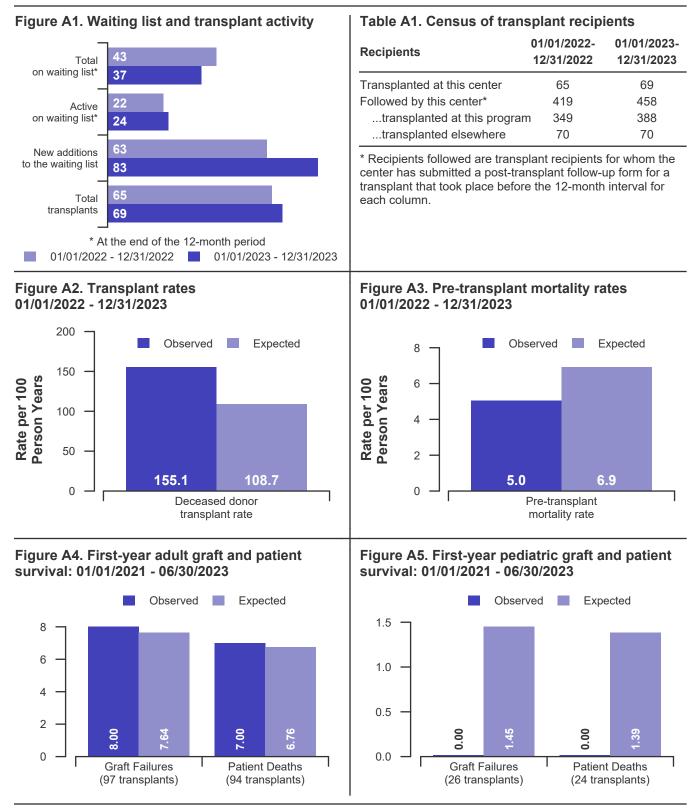
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A. Program Summary





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B. Waiting List Information

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

		ts for enter	as percent of	01/01/2023 to 1 f registrants on 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	56	43	100.0	100.0	100.0
New listings at this center	63	83	193.0	156.7	170.4
Removals					
Transferred to another center	2	2	4.7	2.5	2.5
Received living donor transplant*	0	0	0.0	0.0	0.0
Received deceased donor transplant*	65	69	160.5	117.8	135.2
Died	1	3	7.0	5.5	6.2
Transplanted at another center	1	1	2.3	0.3	1.0
Deteriorated	0	1	2.3	7.1	8.2
Recovered	1	4	9.3	7.4	7.4
Other reasons	6	9	20.9	10.7	10.1
On waiting list at end of period	43	37	86.0	105.5	99.6

* These patients were removed from waiting list with removal code indicating transplant; this may not equal the number of transplants performed at this center during the specified period.



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B. Waiting List Information

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

Domographic Choracteristic		ting List Reg 023 to 12/31/2			ng List Regis 12/31/2023 ('	
Demographic Characteristic	This Center (N=83)	OPTN Region (N=511)	U.S. (N=5,727)	This Center (N=37)	OPTN Region (N=344)	U.S. (N=3,349)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	85.5	66.5	55.0	86.5	61.3	53.7
African-American	8.4	21.7	26.2	8.1	25.6	29.1
Hispanic/Latino	1.2	8.6	12.7	0.0	10.5	12.5
Asian	2.4	2.0	3.8	5.4	1.5	2.5
Other	1.2	0.8	1.7	0.0	0.9	1.5
Unknown	1.2	0.4	0.6	0.0	0.3	0.6
Age (%)						
<2 years	1.2	4.9	5.3	0.0	5.2	5.0
2-11 years	4.8	4.3	3.9	13.5	9.0	6.8
12-17 years	10.8	5.5	3.6	32.4	7.3	3.5
18-34 years	14.5	9.6	10.0	2.7	9.3	9.9
35-49 years	14.5	16.0	18.1	13.5	15.1	20.8
50-64 years	39.8	42.9	42.2	35.1	46.5	42.8
65-69 years	9.6	13.1	13.8	2.7	7.0	10.2
70+ years	4.8	3.7	3.2	0.0	0.6	1.1
Gender (%)						
Male	67.5	66.5	71.4	67.6	72.1	76.3
Female	32.5	33.5	28.6	32.4	27.9	23.7

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



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B. Waiting List Information

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

Medical Characteristic	01/01/2	ting List Regis 023 to 12/31/20		on	ng List Regist 12/31/2023 (%	6)
	This Center (N=83)	OPTN Region (N=511)	U.S. (N=5,727)	This Center (N=37)	OPTN Region (N=344)	U.S. (N=3,349)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
0	39.8	44.2	46.3	56.8	60.5	62.1
A	43.4	37.6	35.4	29.7	29.9	26.6
В	10.8	13.9	14.1	13.5	8.7	9.7
AB	6.0	4.3	4.2	0.0	0.9	1.6
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	7.2	5.1	3.9	8.1	4.9	4.0
No	92.8	94.9	96.1	91.9	95.1	96.0
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Cardiomyopathy	53.0	56.2	57.6	48.6	55.8	54.8
Coronary Artery Disease	18.1	24.7	24.6	10.8	22.1	24.4
Retransplant/Graft Failure	4.8	3.5	3.3	5.4	3.5	3.4
Valvular Heart Disease	2.4	1.2	0.9	2.7	0.6	0.6
Congenital Heart Disease	20.5	12.9	11.4	27.0	16.6	15.1
Other	1.2	1.6	2.2	5.4	1.5	1.7
Missing	0.0	0.0	0.0	0.0	0.0	0.0
Medical Urgency Status at Listin						
Status 1A	3.6	7.8	8.1	5.4	8.7	6.0
Status 1B	6.0	4.3	2.7	10.8	7.8	5.9
Status 2	7.2	2.5	1.8	45.9	14.2	8.5
Adult Status 1	14.5	5.9	6.0	0.0	0.0	0.5
Adult Status 2	22.9	33.5	30.1	0.0	5.8	5.6
Adult Status 3	2.4	4.9	8.6	0.0	2.6	4.6
Adult Status 4	22.9	25.0	26.4	13.5	35.5	41.7
Adult Status 5	10.8	3.3	3.2	10.8	2.6	4.4
Adult Status 6	6.0	11.9	12.0	5.4	20.3	21.2
Temporarily Inactive	3.6	0.8	1.1	8.1	2.3	1.6



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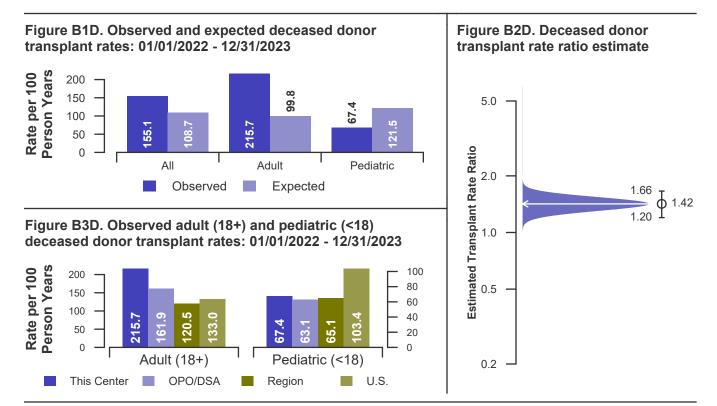
B. Waiting List Information

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*	56	102	348	3,517
Person Years**	90.9	185.2	671.3	6,810.7
Removals for Transplant	141	242	733	8,761
Adult (18+) Candidates				
Count on waiting list at start*	40	77	285	3,037
Person Years**	53.8	126.6	534.6	5,805.4
Removals for transpant	116	205	644	7,721
Pediatric (<18) Candidates				
Count on waiting list at start*	16	25	63	480
Person Years**	37.1	58.6	136.7	1,005.3
Removals for transplant	25	37	89	1,040

* 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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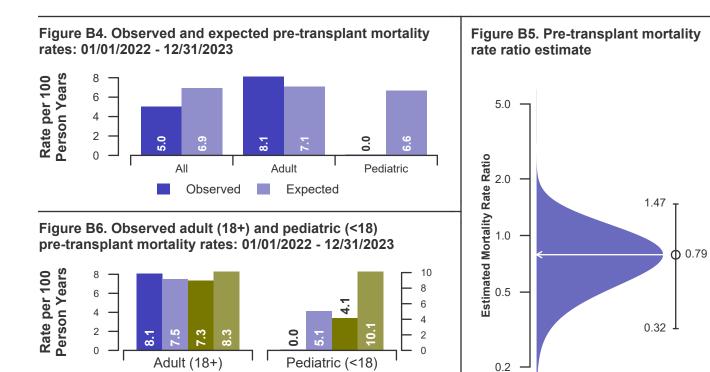
B. Waiting List Information

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*	56	102	348	3,517
Person Years**	99.2	206.4	760.8	7,699.2
Number of deaths	5	14	51	656
Adult (18+) Candidates				
Count on waiting list at start*	40	77	285	3,037
Person Years**	61.8	147.2	615.0	6,599.5
Number of deaths	5	11	45	545
Pediatric (<18) Candidates				
Count on waiting list at start*	16	25	63	480
Person Years**	37.4	59.2	145.8	1,099.7
Number of deaths	0	3	6	111

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

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



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Region

OPO/DSA

This Center



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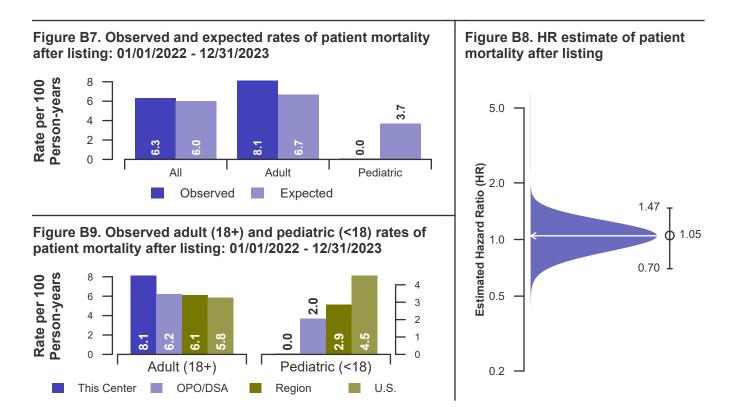
B. Waiting List Information

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	336	743	2,689	30,015
Person-years*	412.0	953.9	3,603.7	40,017.9
Number of Deaths	26	51	200	2,260
Adult (18+) Patients				
Count at risk during the evaluation period	269	601	2,264	25,811
Person-years*	321.2	758.4	3,008.8	34,283.0
Number of Deaths	26	47	183	2,001
Pediatric (<18) Patients				
Count at risk during the evaluation period	67	142	425	4,204
Person-years*	90.8	195.5	594.8	5,734.9
Number of Deaths	0	4	17	259

* 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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B. Waiting List Information

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)		Center (N Is Since L	,		U.S. (N=4,858) Months Since Listing		
	6	12	18	6	12	18	
Alive on waiting list (%)	26.1	15.9	8.7	28.6	18.8	13.3	
Died on the waiting list without transplant (%)	1.4	1.4	1.4	3.0	3.5	3.8	
Removed without transplant (%):							
Condition worsened (status unknown)	0.0	0.0	0.0	3.0	3.5	3.9	
Condition improved (status unknown)	0.0	0.0	0.0	0.8	1.7	2.3	
Refused transplant (status unknown)	0.0	0.0	0.0	0.1	0.1	0.2	
Other	7.2	7.2	7.2	1.9	2.7	3.4	
Transplant (living or deceased donor) (%):							
Functioning (alive)	58.0	65.2	44.9	58.2	59.9	39.4	
Failed-Retransplanted (alive)	1.4	1.4	1.4	0.1	0.1	0.1	
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.0	0.0	
Died	2.9	5.8	7.2	3.4	5.4	6.7	
Status Yet Unknown*	2.9	2.9	27.5	0.4	3.5	25.9	
Lost or Transferred (status unknown) (%)	0.0	0.0	1.4	0.5	0.8	1.0	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	4.3	7.2	8.7	6.4	8.9	10.5	
Total % known died or removed as unstable	4.3	7.2	8.7	9.4	12.4	14.4	
Total % removed for transplant	65.2	75.4	81.2	62.1	68.9	72.2	
Total % with known functioning transplant (alive)	58.0	65.2	44.9	58.2	59.9	39.4	

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



TRANSPLANT RECIPIENTS Based on Data Available: April 30, 2024 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

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

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν				3 years	N				3 years
All	205	10.7	37.1	42.4	43.4	14,110	30.0	63.0	68.7	71.0
Ethnicity/Race*										
White	173	12.7	37.6	43.9	45.1	8,452	30.2	64.1	69.8	72.0
African-American	17	0.0	47.1	47.1	47.1	3,444	28.3	59.5	65.2	67.6
Hispanic/Latino	8	0.0	12.5	12.5	12.5	1,502	29.4	63.1	68.8	71.8
Asian	3	0.0	0.0	0.0	0.0	536	39.0	70.3	74.1	76.1
Other	4	0.0	50.0	50.0	50.0	176	25.6	59.1	63.6	65.9
Unknown	0					0				
Age										
<2 years	14	0.0	28.6	28.6	28.6	853	10.9	61.4	63.0	63.1
2-11 years	5	0.0	40.0	40.0	40.0	619	16.0	65.1	71.6	74.5
12-17 years	14	21.4	28.6	42.9	42.9	589	37.7	74.0	79.5	80.8
18-34 years	32	15.6	31.2	37.5	43.8	1,336	33.5	61.1	66.5	69.0
35-49 years	55	7.3	32.7	38.2	38.2	2,645	29.8	61.1	67.0	69.3
50-64 years	74	10.8	43.2	48.6	48.6	5,819	30.2	61.4	68.0	70.8
65-69 years	11	18.2	54.5	54.5	54.5	1,867	35.0	66.3	71.2	73.1
70+ years	0					382	43.5	76.2	77.7	78.0
Gender										
Male	128	10.9	36.7	41.4	43.0	9,959	29.9	61.7	67.7	70.3
Female	77	10.4	37.7	44.2	44.2	4,151	30.0	66.4	71.1	72.5

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



Center Code: MNMC Transplant Program (Organ): Heart Release Date: July 9, 2024 Based on Data Available: April 30, 2024 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

B. Waiting List Information

RECIPIENTS

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	Percent transplanted at time periods since listing This Center United States									
ondracteristic	Ν				3 years	Ν				3 years
All	205	10.7	37.1	42.4	43.4	14,110	30.0	63.0	68.7	71.0
Blood Type										
0	95	8.4	27.4	27.4	27.4	6,250	22.7	53.5	59.9	63.0
A	67	16.4	40.3	53.7	56.7	5,151	35.0	69.4	74.8	76.6
В	33	9.1	60.6	60.6	60.6	2,066	35.1	70.3	75.1	76.8
AB	10	0.0	30.0	50.0	50.0	643	43.5	81.8	84.0	84.3
Previous Transplant										
Yes	20	0.0	40.0	40.0	40.0	539	24.9	59.7	64.6	65.9
No	185	11.9	36.8	42.7	43.8	13,571	30.2	63.2	68.8	71.2
Primary Disease										
Cardiomyopathy	110	17.3	50.9	55.5	55.5	8,204	33.0	65.6	71.2	73.3
Coronary Artery Disease	20	10.0	35.0	45.0	45.0	3,458	30.3	60.1	66.0	69.1
Retransplant/Graft Failure	20	0.0	40.0	40.0	40.0	468	25.4	62.4	67.3	68.8
Valvular Heart Disease	5	0.0	0.0	0.0	0.0	133	29.3	53.4	59.4	60.2
Congenital Heart Disease	32	0.0	12.5	25.0	31.2	1,596	15.8	59.7	65.0	67.2
Other	18	5.6	5.6	5.6	5.6	251	25.1	48.2	52.2	53.0
Missing	0					0				
Medical Urgency Status at Lis	sting									
Status 1A	32	3.1	28.1	28.1	28.1	2,102	30.4	71.5	73.2	73.9
Status 1B	26	7.7	46.2	53.8	53.8	1,881	17.3	60.1	67.7	70.3
Status 2	45	0.0	15.6	24.4	24.4	1,209	6.2	43.8	54.0	58.8
Unknown	15	0.0	20.0	20.0	20.0	354	12.1	40.7	46.6	48.9



REGISTRY 약 Center Code: MNMC Transplant Program (Organ): Heart TRANSPLANT Release Date: July 9, 2024 RECIPIENTS

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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 T	ransplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.2	0.2	0.1	0.1
10th	0.3	0.2	0.2	0.2
25th	1.0	0.7	0.6	0.6
50th (median time to transplant)	6.4	4.4	3.2	3.0
75th	Not Observed	Not Observed	42.4	32.5

* 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.



REGISTRY OF TRANSPLANT RECIPIENTS

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B. Waiting List Information

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	378	1,570	7,396	60,944
Number of Acceptances	57	111	319	3,944
Expected Acceptances	26.9	86.8	409.3	3,944.4
Offer Acceptance Ratio*	2.04	1.27	0.78	1.00
95% Credible Interval**	[1.55, 2.59]			
PHS increased infectious risk	• • •			
Number of Offers	80	316	1,650	14,230
Number of Acceptances	13	21	50	786
Expected Acceptances	3.9	13.4	74.1	790.0
Offer Acceptance Ratio*	2.54	1.49	0.68	0.99
95% Credible Interval**	[1.42, 3.98]			
Ejection fraction < 60				
Number of Offers	191	772	3,648	31,528
Number of Acceptances	28	57	157	1,917
Expected Acceptances	12.4	41.1	197.2	1,913.7
Offer Acceptance Ratio*	2.08	1.37	0.80	1.00
95% Credible Interval**	[1.40, 2.89]			
Donor Age >= 40				
Number of Offers	145	674	3,314	27,107
Number of Acceptances	22	31	91	947
Expected Acceptances	5.5	17.9	109.0	947.9
Offer Acceptance Ratio*	3.21	1.66	0.84	1.00
95% Credible Interval**	[2.06, 4.61]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	83	486	2,452	18,218
Number of Acceptances	12	13	27	281
Expected Acceptances	1.6	5.4	33.7	260.3
Offer Acceptance Ratio*	3.90	2.03	0.81	1.08
95% Credible Interval**	[2.13, 6.19]			
Donor more than 500 miles away				
Number of Offers	184	840	2,811	21,280
Number of Acceptances	23	37	80	959
Expected Acceptances	9.4	34.5	113.3	987.0
Offer Acceptance Ratio*	2.19	1.07	0.71	0.97
95% Credible Interval**	[1.42, 3.13]			

* The offer acceptance ratio estimates the relative offer acceptance practice of Mayo Clinic Hospital Minnesota 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 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).

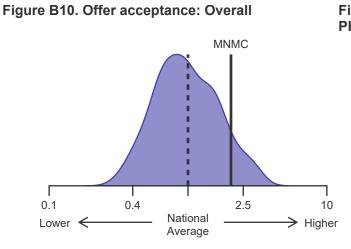
** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.55, 2.59], indicates the location of MNMC's true offer acceptance ratio with 95% probability. The best estimate is 104% more likely to accept an offer compared to national acceptance behavior, but MNMC's performance could plausibly range from 55% higher acceptance up to 159%



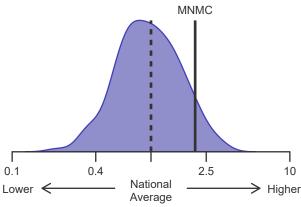
REGISTRY OF Center Code: MNMC TRANSPLANT RECIPIENTS Based on Data Available: April 30, 2024

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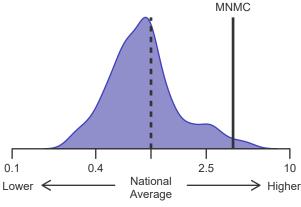
B. Waiting List Information











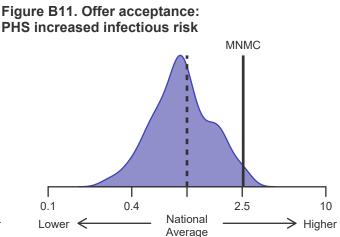


Figure B13. Offer acceptance: Donor age >= 40

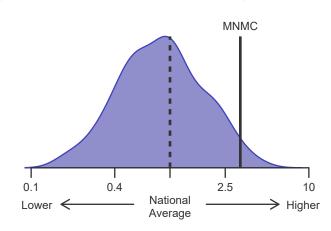
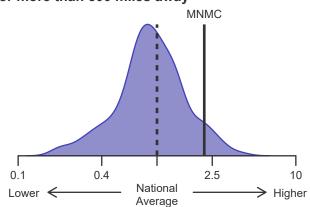


Figure B15. Offer acceptance: Donor more than 500 miles away





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C. Transplant Information

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

	Percei	Percentage in each category		
Characteristic	Center (N=69)	Region (N=384)	U.S. (N=4,545)	
Ethnicity/Race (%)*				
White	82.6	69.8	56.6	
African-American	10.1	20.3	24.9	
Hispanic/Latino	4.3	7.0	12.5	
Asian	1.4	1.8	4.1	
Other	0.0	0.8	1.6	
Unknown	1.4	0.3	0.3	
Age (%)				
<2 years	1.4	3.1	3.3	
2-11 years	1.4	2.9	3.4	
12-17	13.0	6.2	4.4	
18-34	18.8	10.7	10.3	
35-49 years	11.6	16.9	18.0	
50-64 years	37.7	41.1	42.1	
65-69 years	8.7	14.3	14.9	
70+ years	7.2	4.7	3.7	
Gender (%)				
Male	69.6	69.0	70.6	
Female	30.4	31.0	29.4	

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



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C. Transplant Information

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

	Percentage in each category		
Characteristic	Center (N=69)	Region (N=384)	U.S. (N=4,545)
Blood Type (%)			
0	39.1	37.8	42.9
A	46.4	41.1	37.1
В	7.2	15.4	15.0
AB	7.2	5.7	4.9
Previous Transplant (%)			
Yes	7.2	4.7	3.4
No	92.8	95.3	96.6
Body Mass Index (%)			
0-20	20.3	15.4	15.8
21-25	24.6	26.8	28.8
26-30	26.1	24.7	30.3
31-35	21.7	19.5	18.8
36-40	5.8	6.0	4.5
41+	1.4	0.5	0.7
Unknown	0.0	7.0	1.2
Primary Disease (%)			
Cardiomyopathy	55.1	58.3	61.4
Coronary Artery Disease	20.3	24.5	25.1
Retransplant/Graft Failure	0.0	0.0	0.0
Valvular Heart Disease	1.4	1.6	0.8
Congenital Heart Disease	21.7	13.8	10.5
Other	0.0	1.6	1.9
Missing	1.4	0.3	0.2
Medical Urgency Status at Transplant (%)		0.0	0.2
Status 1A	8.7	10.7	9.7
Status 1B	10.1	2.3	1.7
Status 2	0.0	0.0	0.3
Adult Status 1	14.5	10.9	12.3
Adult Status 2	30.4	53.9	48.6
Adult Status 3	10.1	8.6	9.6
Adult Status 4	21.7	9.6	12.5
Adult Status 5	2.9	1.0	1.2
Adult Status 6	1.4	2.9	4.1
Recipient Medical Condition at Transplant (%)	1.4	2.0	7.1
Not Hospitalized	34.8	17.7	22.2
Hospitalized	13.0	20.3	18.7
ICU	52.2	62.0	58.9
Unknown	0.0	0.0	0.2
Recipient Circulatory Support Status at Transplant (%)	0.0	0.0	0.2
	27.5	26.6	23.1
No Support Mechanism Devices*	58.0	62.5	61.8
	14.5	10.9	
Other Support Mechanism			14.9
Unknown	0.0	0.0	0.2

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

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.



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C. Transplant Information

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

	Percentage in each category		
Donor Characteristic	Center (N=69)	Region (N=384)	U.S. (N=4,545)
Cause of Death (%)			
Deceased: Stroke	13.0	12.5	11.2
Deceased: MVA	18.8	20.3	18.2
Deceased: Other	68.1	67.2	70.6
Ethnicity/Race (%)*			
White	72.5	68.2	61.3
African-American	13.0	15.6	17.4
Hispanic/Latino	8.7	13.0	17.4
Asian	1.4	1.0	2.2
Other	4.3	1.8	1.6
Not Reported	0.0	0.3	0.1
Age (%)			
<2 years	1.4	1.8	2.3
2-11 years	2.9	3.4	3.2
12-17	13.0	7.8	6.3
18-34	29.0	45.8	48.5
35-49 years	42.0	34.6	34.8
50-64 years	11.6	6.5	4.8
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	71.0	73.4	69.8
Female	29.0	26.6	30.2
Blood Type (%)			
0	53.6	50.0	53.3
A	37.7	37.2	33.9
В	7.2	10.9	11.0
AB	1.4	1.8	1.8
Unknown	0.0	0.0	0.0

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



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C. Transplant Information

Table C4D. Deceased donor transplant characteristicsTransplants performed between 01/01/2023 and 12/31/2023

	Percentage in each category		
Transplant Characteristic	Center (N=69)	Region (N=384)	U.S. (N=4,545)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	30.0	10.2	10.6
Deceased: 91-180 min	40.0	50.8	57.1
Deceased: 181-270 min	10.0	33.9	23.9
Deceased: 271-360 min	10.0	3.4	5.0
Deceased: 361+ min	10.0	1.7	2.7
Not Reported	0.0	0.0	0.6
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	0.6	1.2
Deceased: 91-180 min	10.2	12.3	12.8
Deceased: 181-270 min	39.0	60.6	60.1
Deceased: 271-360 min	32.2	19.4	15.9
Deceased: 361+ min	18.6	6.5	9.5
Not Reported	0.0	0.6	0.5
Procedure Type (%)			
Single organ	84.1	86.2	88.9
Multi organ	15.9	13.8	11.1
Donor Location (%)			
Local Donation Service Area (DSA)	14.5	15.4	19.3
Another Donation Service Area (DSA)	85.5	84.6	80.7
Median Time in Hospital After Transplant	18.0 Days	17.0 Days	18.0 Days



REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
Release Date: July 9, 2024RECIPIENTSBased on Data Available: April 30, 2024

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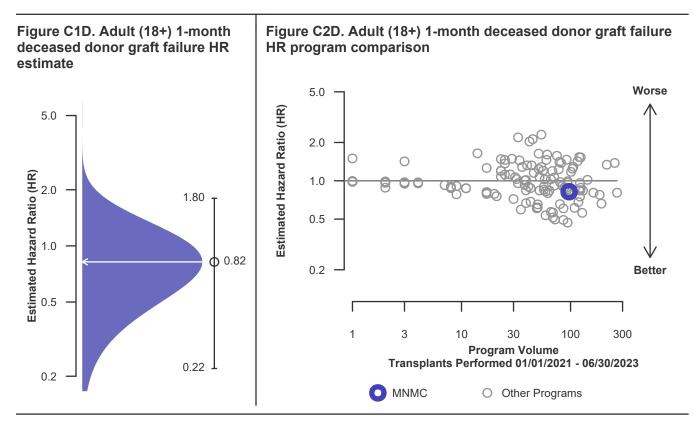
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	97	7,819
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.94% [95.15%-100.00%]	97.08% [96.71%-97.46%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.07%	
Number of observed graft failures (including deaths) during the first month after transplant	2	228
Number of expected graft failures (including deaths) during the first month after transplant	2.87	
Estimated hazard ratio*	0.82	
95% credible interval for the hazard ratio**	[0.22, 1.80]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.22, 1.80], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 18% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 78% reduced risk up to 80% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): HeartRECIPIENTSBased on Data Available: April 30, 2024

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C. Transplant Information

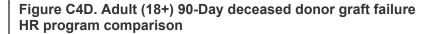
Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graftSingle organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

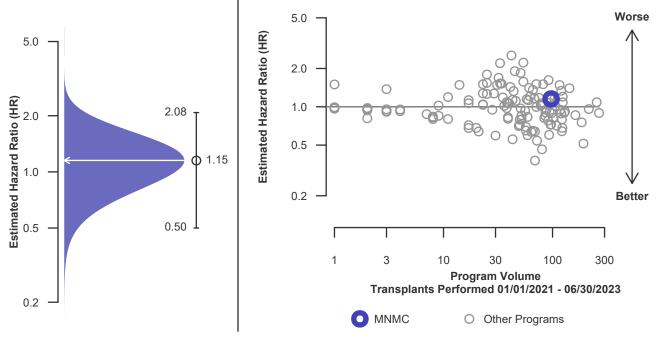
	MNMC	U.S.
Number of transplants evaluated	97	7,819
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	93.81% [89.14%-98.73%]	95.01% [94.53%-95.50%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.00%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	6	390
Number of expected graft failures (including deaths) during the first 90 days after transplant	4.94	
Estimated hazard ratio*	1.15	
95% credible interval for the hazard ratio**	[0.50, 2.08]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.50, 2.08], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 15% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 50% reduced risk up to 108% increased risk.

Figure C3D. Adult (18+) 90-Day deceased donor graft failure HR estimate







REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
Release Date: July 9, 2024RECIPIENTSBased on Data Available: April 30, 2024

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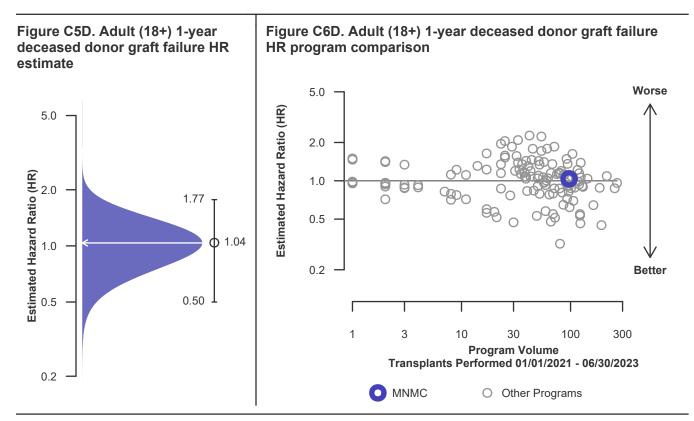
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	97	7,819
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	91.75% [86.44%-97.39%]	91.66% [91.03%-92.30%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.67%	
Number of observed graft failures (including deaths) during the first year after transplant	8	623
Number of expected graft failures (including deaths) during the first year after transplant	7.64	
Estimated hazard ratio*	1.04	
95% credible interval for the hazard ratio**	[0.50, 1.77]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.50, 1.77], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 4% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 50% reduced risk up to 77% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
Release Date: July 9, 2024RECIPIENTSBased on Data Available: April 30, 2024

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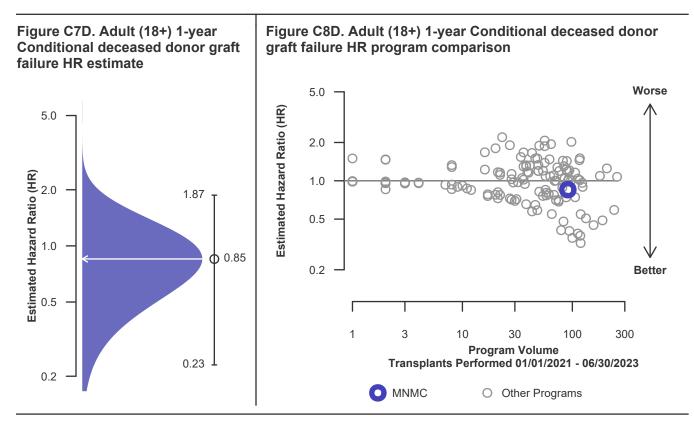
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	91	7,429
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 97.80% 96.97%-98.64%]	96.47% [96.30%-96.65%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.50%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	2	233
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	2.70	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.23, 1.87]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.23, 1.87], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 15% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 77% reduced risk up to 87% increased risk.





REGISTRY OF Center Code: MNMC Transplant Program (Organ): Heart Release Date: July 9, 2024 RECIPIENTS Based on Data Available: April 30, 2024

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C. Transplant Information

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

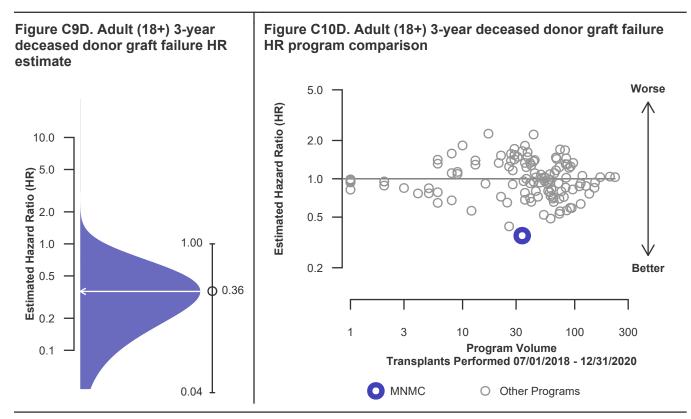
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	34	6,322
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	84.40% [83.09%-85.73%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	83.72%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	637
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.60	
Estimated hazard ratio*	0.36	
95% credible interval for the hazard ratio**	[0.04, 1.00]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.04, 1.00], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 64% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 96% reduced risk up to 0% reduced risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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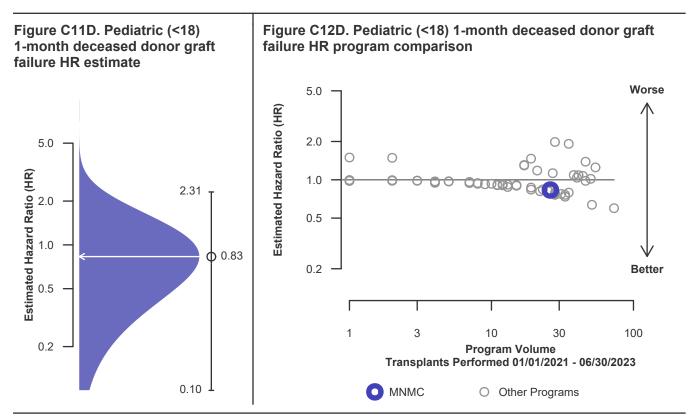
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	26	1,234
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%]	98.06% [97.29%-98.83%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.45%	
Number of observed graft failures (including deaths) during the first month after transplant	0	24
Number of expected graft failures (including deaths) during the first month 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 Mayo Clinic Hospital Minnesota'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 MNMC'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 MNMC's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 90% reduced risk up to 131% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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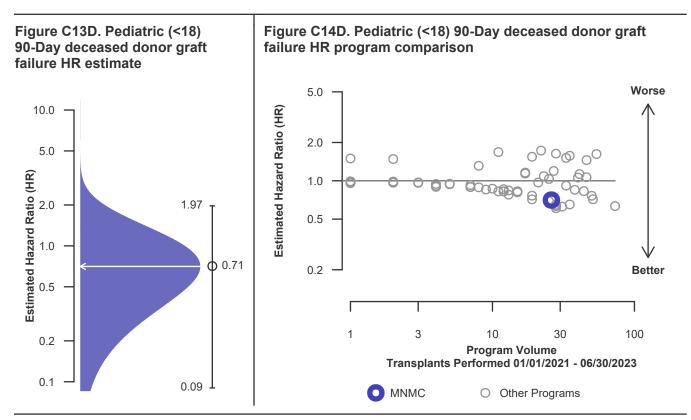
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	26	1,234
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	96.11% [95.04%-97.20%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.86%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	48
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.83	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.09, 1.97]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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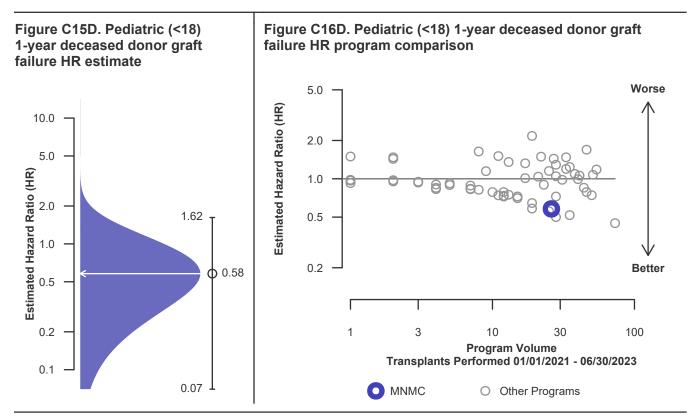
C. Transplant Information

Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2021 and 06/30/2023Deaths and retransplants are considered graft failures

	MNMC	U.S.
Number of transplants evaluated	26	1,234
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%]	93.10% [91.66%-94.57%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.33%	
Number of observed graft failures (including deaths) during the first year after transplant	0	81
Number of expected graft failures (including deaths) during the first year after transplant	1.45	
Estimated hazard ratio*	0.58	
95% credible interval for the hazard ratio**	[0.07, 1.62]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.07, 1.62], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 42% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 93% reduced risk up to 62% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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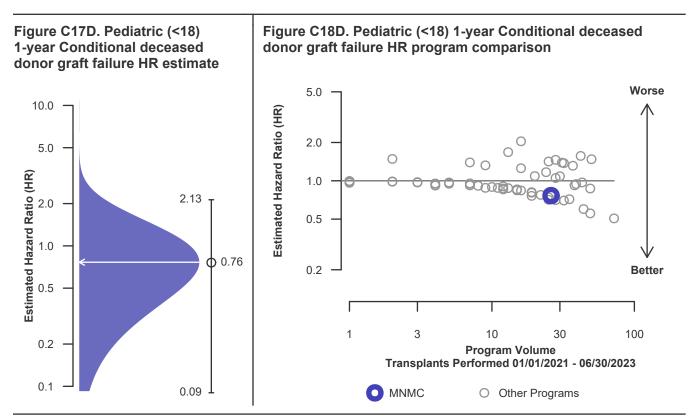
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	26	1,186
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 0.00%-100.00%]	96.87% [96.44%-97.30%]
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)	97.39%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	33
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.61	
Estimated hazard ratio*	0.76	
95% credible interval for the hazard ratio**	[0.09, 2.13]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.09, 2.13], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 24% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 91% reduced risk up to 113% increased risk.





REGISTRY OF Center Code: MNMC Transplant Program (Organ): Heart Release Date: July 9, 2024 RECIPIENTS Based on Data Available: April 30, 2024

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C. Transplant Information

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

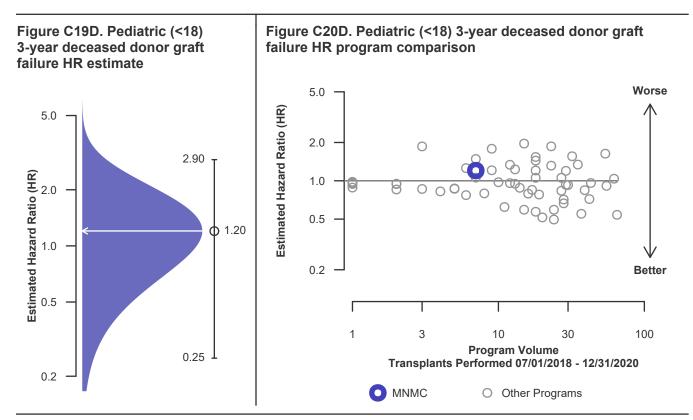
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	7	1,128
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [58.27%-100.00%]	86.57% [83.79%-89.43%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.37%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	102
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.50	
Estimated hazard ratio*	1.20	
95% credible interval for the hazard ratio**	[0.25, 2.90]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.25, 2.90], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 20% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 75% reduced risk up to 190% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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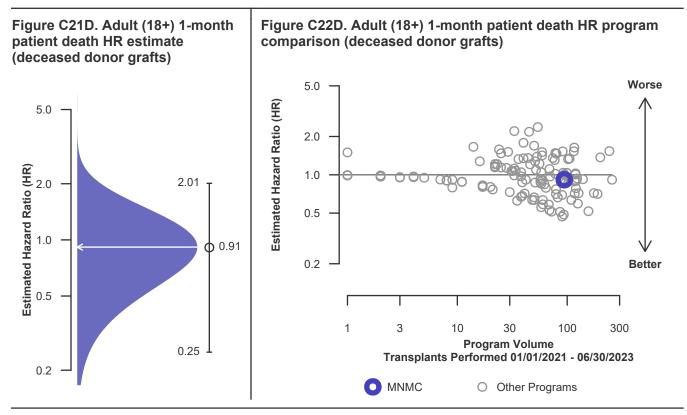
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	94	7,624
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.87% [95.00%-100.00%]	97.35% [96.99%-97.71%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.48%	
Number of observed deaths during the first month after transplant	2	202
Number of expected deaths during the first month after transplant	2.37	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.25, 2.01]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.25, 2.01], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 9% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 75% reduced risk up to 101% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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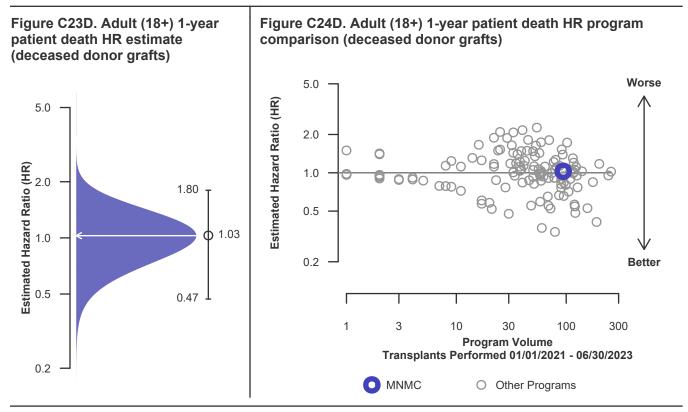
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	94	7,624
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	92.55% [87.40%-98.02%]	92.06% [91.44%-92.69%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	92.39%	
Number of observed deaths during the first year after transplant	7	578
Number of expected deaths during the first year after transplant	6.76	
Estimated hazard ratio*	1.03	
95% credible interval for the hazard ratio**	[0.47, 1.80]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.47, 1.80], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 3% higher risk of patient death compared to an average program, but MNMC's performance could plausibly range from 53% reduced risk up to 80% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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C. Transplant Information

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

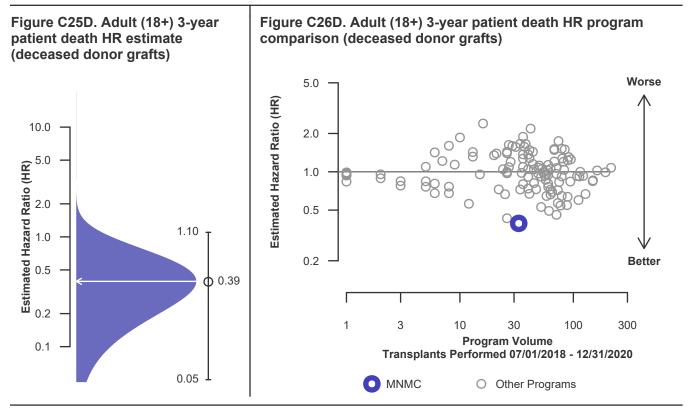
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

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

	MNMC	U.S.
Number of transplants evaluated	33	6,165
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	84.98% [83.66%-86.31%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	85.02%	
Number of observed deaths during the first 3 years after transplant	0	592
Number of expected deaths during the first 3 years after transplant	3.08	
Estimated hazard ratio*	0.39	
95% credible interval for the hazard ratio**	[0.05, 1.10]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.05, 1.10], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 61% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 95% reduced risk up to 10% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): HeartRECIPIENTSBased on Data Available: April 30, 2024

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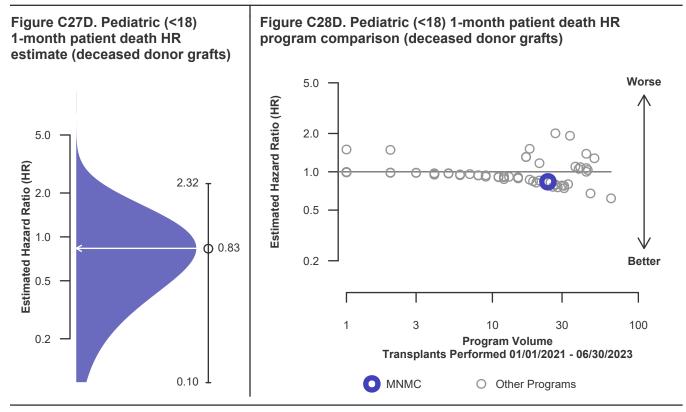
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	24	1,180
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.05% [97.27%-98.84%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.36%	
Number of observed deaths during the first month after transplant	0	23
Number of expected deaths during the first month after transplant	0.40	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.10, 2.32]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.10, 2.32], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 17% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 90% reduced risk up to 132% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Heart
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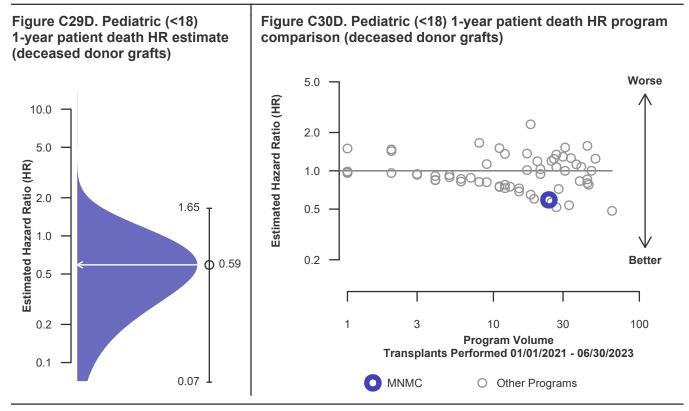
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	24	1,180
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	93.25% [91.79%-94.74%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.20%	
Number of observed deaths during the first year after transplant	0	76
Number of expected deaths during the first year after transplant	1.39	
Estimated hazard ratio*	0.59	
95% credible interval for the hazard ratio**	[0.07, 1.65]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC'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 MNMC's true hazard ratio with 95% probability. The best estimate is 41% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 93% reduced risk up to 65% increased risk.





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C. Transplant Information

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

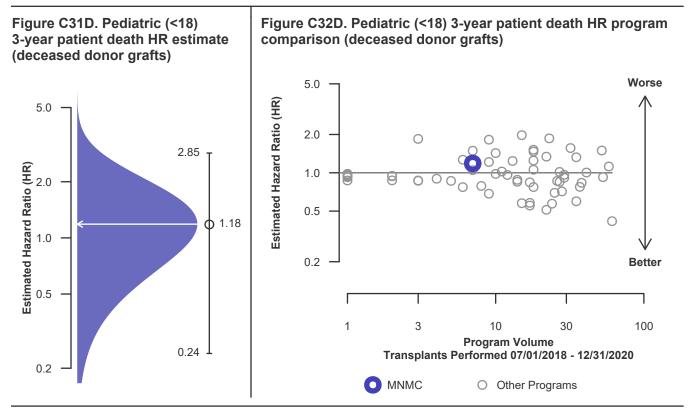
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

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

	MNMC	U.S.
Number of transplants evaluated	7	1,080
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	83.33% [58.27%-100.00%]	86.34% [83.46%-89.32%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	87.08%	
Number of observed deaths during the first 3 years after transplant	1	98
Number of expected deaths during the first 3 years after transplant	0.53	
Estimated hazard ratio*	1.18	
95% credible interval for the hazard ratio**	[0.24, 2.85]	

* The hazard ratio provides an estimate of how Mayo Clinic Hospital Minnesota'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 MNMC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.24, 2.85], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 18% higher risk of patient death compared to an average program, but MNMC's performance could plausibly range from 76% reduced risk up to 185% 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	Transplants Heart It Type Performed Graft Failures		Estimated Heart res Graft Survival			
	MNMC-TX1	USA	MNMC-TX1	USA	MNMC-TX1	USA
Heart-Lung	9	119	1	20	88.9%	83.2%
Kidney-Heart	20	934	3	96	85.0%	89.7%
Kidney-Liver-Heart	1	20	0	5	100.0%	75.0%
Liver-Heart	5	150	2	28	60.0%	81.3%

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					
Transpla Transplant Type Perform				Estimated Patient Survival		
	MNMC-TX1	USA	MNMC-TX1	USA	MNMC-TX1	USA
Heart-Lung	9	119	1	20	88.9%	83.2%
Kidney-Heart	20	934	3	96	85.0%	89.7%
Kidney-Liver-Heart	1	20	0	5	100.0%	75.0%
Liver-Heart	5	150	2	28	60.0%	81.3%

Pediatric (<18) Transplants

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

The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.