

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

Based on Data Available: October 31, 2023

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COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021, July 2021, January 2022, July 2022, January 2023 and July 2023. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the January 2024 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the January 2024 reporting cycle. These changes will remain in force beyond the January 2024 reporting cycle, unless otherwise amended:

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

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 7/1/2020-12/31/2022, follow-up through 6/30/2023.

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

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

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



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

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

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

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

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

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

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 9, 2024. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for July 2024.

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



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This report contains a wide range of useful information about the 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 136.2 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2017 and 12/31/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.2 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2023 to calculate a particular percentile of transplant times.

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



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

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

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

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

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



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A. Program Summary

Figure A1. Waiting list and transplant activity

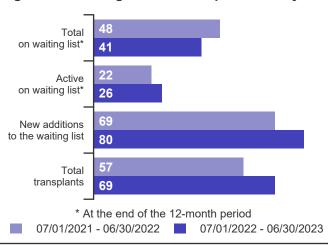


Table A1. Census of transplant recipients

Recipients	07/01/2021- 06/30/2022	07/01/2022- 06/30/2023
Transplanted at this center	57	69
Followed by this center*	414	399
transplanted at this program	n 346	340
transplanted elsewhere	68	59

^{*} 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 07/01/2021 - 06/30/2023



Figure A3. Pre-transplant mortality rates 07/01/2021 - 06/30/2023

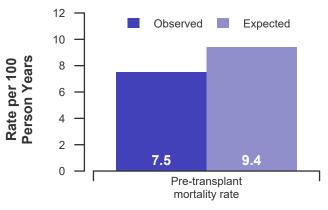


Figure A4. First-year adult graft and patient survival: 07/01/2020 - 12/31/2022

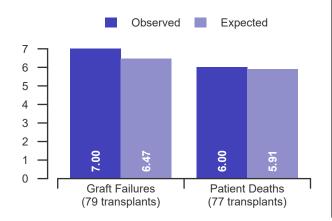
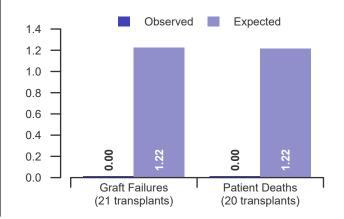


Figure A5. First-year pediatric graft and patient survival: 07/01/2020 - 12/31/2022





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

		nts for center	Activity for 07/01/2022 to 06/30/2023 as percent of registrants on waiting lis on 07/01/2022			
Waiting List Registrations	07/01/2021- 06/30/2022	07/01/2022- 06/30/2023	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	52	48	100.0	100.0	100.0	
New listings at this center	69	80	166.7	134.3	159.7	
Removals						
Transferred to another center	2	1	2.1	3.1	2.7	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	57	69	143.8	105.7	128.2	
Died	3	4	8.3	4.2	5.8	
Transplanted at another center	1	1	2.1	0.6	1.0	
Deteriorated	0	1	2.1	7.9	7.5	
Recovered	3	4	8.3	6.5	6.5	
Other reasons	7	7	14.6	11.0	9.7	
On waiting list at end of period	48	41	85.4	95.2	98.4	

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



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2022 and 06/30/2023

Domographic Characteristic		ting List Regis		All Waiting List Registrations on 06/30/2023 (%)			
Demographic Characteristic	This Center (N=80)	OPTN Region (N=474)	U.S. (N=5,535)	This Center (N=41)	OPTN Region (N=336)	U.S. (N=3,410)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	77.5	65.8	55.4	80.5	64.9	56.3	
African-American	10.0	22.6	26.0	9.8	24.7	27.7	
Hispanic/Latino	5.0	6.5	12.6	2.4	6.8	11.7	
Asian	6.2	3.6	4.2	7.3	2.4	2.7	
Other	1.2	1.5	1.8	0.0	1.2	1.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	3.8	6.1	5.3	2.4	8.3	5.3	
2-11 years	5.0	3.6	3.6	12.2	8.6	6.2	
12-17 years	15.0	5.9	4.2	34.1	8.0	4.4	
18-34 years	13.8	9.3	10.2	7.3	9.5	9.9	
35-49 years	15.0	16.0	19.0	12.2	14.6	21.4	
50-64 years	30.0	41.1	41.6	26.8	42.3	41.8	
65-69 years	12.5	15.4	13.2	4.9	8.6	10.2	
70+ years	5.0	2.5	2.9	0.0	0.0	8.0	
Gender (%)							
Male	70.0	68.4	71.1	70.7	73.8	74.8	
Female	30.0	31.6	28.9	29.3	26.2	25.2	

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



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

Medical Characteristic	07/01/2	ting List Regi 022 to 06/30/2	023 (%)	All Waiting List Registrations on 06/30/2023 (%)			
Medical Gharacteristic	This Center (N=80)	OPTN Region (N=474)	U.S. (N=5,535)	This Center (N=41)	OPTN Region (N=336)	U.S. (N=3,410)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
Ο	47.5	44.3	46.3	58.5	58.9	61.0	
A	32.5	36.9	35.2	26.8	30.4	26.6	
В	13.8	13.5	14.2	14.6	10.1	10.8	
AB	6.2	5.3	4.4	0.0	0.6	1.7	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	6.2	4.4	4.0	4.9	4.2	3.9	
No	93.8	95.6	96.0	95.1	95.8	96.1	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Cardiomyopathy	57.5	55.1	57.0	48.8	51.2	53.7	
Coronary Artery Disease	13.8	25.3	24.5	4.9	24.1	24.9	
Retransplant/Graft Failure	5.0	3.6	3.4	4.9	3.3	3.3	
Valvular Heart Disease	2.5	1.1	1.0	2.4	0.6	1.0	
Congenital Heart Disease	20.0	13.9	11.8	36.6	20.2	15.4	
Other	1.2	1.1	2.3	2.4	0.6	1.7	
Missing	0.0	0.0	0.0	0.0	0.0	0.0	
Medical Urgency Status at Listing							
Status 1A	8.8	10.1	8.0	7.3	12.5	6.3	
Status 1B	5.0	3.2	3.0	9.8	8.0	6.5	
Status 2	10.0	2.7	2.1	48.8	14.9	9.3	
Adult Status 1	10.0	6.1	6.0	0.0	0.3	0.6	
Adult Status 2	26.2	34.8	29.1	2.4	6.5	5.8	
Adult Status 3	1.2	5.3	8.5	0.0	3.0	4.8	
Adult Status 4	25.0	24.9	27.0	17.1	33.3	39.8	
Adult Status 5	3.8	2.3	3.0	4.9	2.4	4.2	
Adult Status 6	10.0	10.1	12.5	2.4	16.4	20.9	
Temporarily Inactive	0.0	0.4	1.0	7.3	2.7	1.7	



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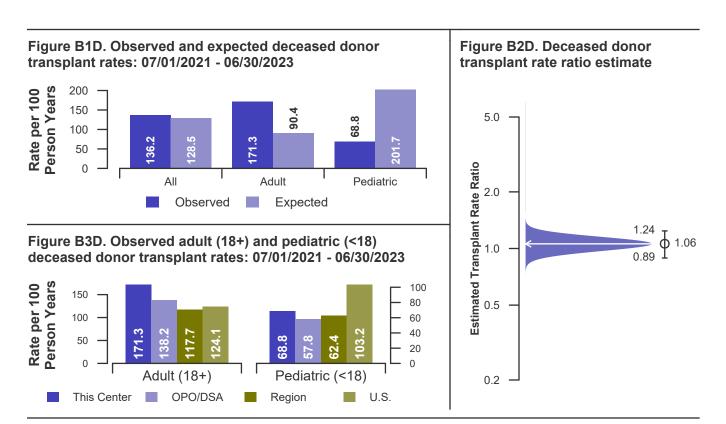
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Table B4D. Deceased donor transplant rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	52	99	343	3,623
Person Years**	97.7	188.2	667.6	6,901.2
Removals for Transplant	133	217	716	8,364
Adult (18+) Candidates				
Count on waiting list at start*	44	78	280	3,186
Person Years**	64.2	134.6	541.0	5,937.6
Removals for transpant	110	186	637	7,370
Pediatric (<18) Candidates				
Count on waiting list at start*	8	21	63	437
Person Years**	33.5	53.6	126.6	963.6
Removals for transplant	23	31	79	994

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

^{**} Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, removal from the waiting list or June 30.





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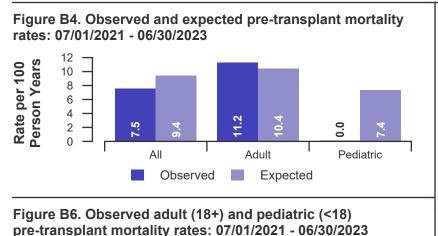
B. Waiting List Information

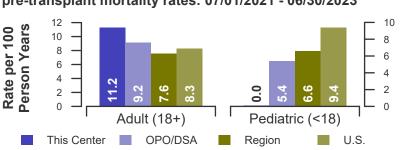
Table B5. Pre-transplant mortality rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	52	99	343	3,623
Person Years**	106.4	208.4	757.7	7,894.9
Number of deaths	8	17	56	666
Adult (18+) Candidates				
Count on waiting list at start*	44	78	280	3,186
Person Years**	71.1	152.9	620.4	6,825.7
Number of deaths	8	14	47	566
Pediatric (<18) Candidates				
Count on waiting list at start*	8	21	63	437
Person Years**	35.2	55.6	137.2	1,069.2
Number of deaths	0	3	9	100

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

^{**} Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or June 30.





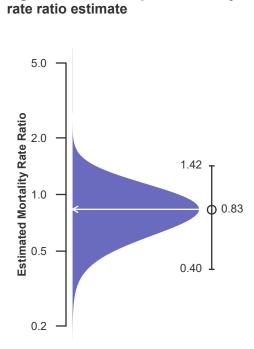


Figure B5. Pre-transplant mortality



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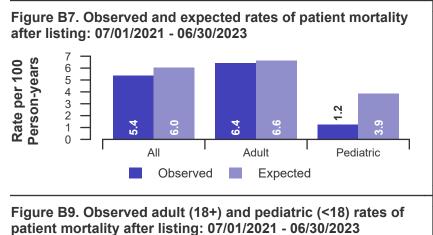
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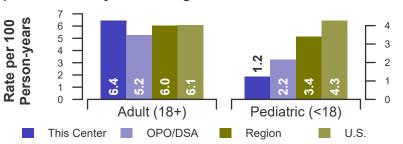
Table B6. Rates of patient mortality after listing: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	327	714	2,661	29,426
Person-years*	392.5	928.7	3,563.1	39,287.8
Number of Deaths	21	43	199	2,283
Adult (18+) Patients				
Count at risk during the evaluation period	258	575	2,236	25,269
Person-years*	311.2	742.9	2,974.0	33,627.6
Number of Deaths	20	39	179	2,042
Pediatric (<18) Patients				
Count at risk during the evaluation period	69	139	425	4,157
Person-years*	81.3	185.8	589.0	5,660.2
Number of Deaths	1	4	20	241

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

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





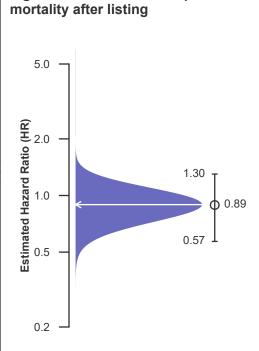


Figure B8. HR estimate of patient



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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 01/01/2021 and 12/31/2021

Waiting list status (survival status)		Center (N ns Since L	•		S. (N=5,00 ns Since L	,
	6	12	18	6	12	18
Alive on waiting list (%)	29.7	20.3	10.9	30.0	19.6	13.4
Died on the waiting list without transplant (%)	3.1	3.1	3.1	3.1	3.7	3.9
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	2.5	3.1	3.5
Condition improved (status unknown)	0.0	0.0	0.0	8.0	1.7	2.3
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.2	0.3
Other	6.2	6.2	6.2	1.7	2.7	3.4
Transplant (living or deceased donor) (%):						
Functioning (alive)	56.2	62.5	46.9	57.5	60.0	41.9
Failed-Retransplanted (alive)	1.6	1.6	1.6	0.1	0.1	0.2
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.0	0.0
Died	1.6	4.7	4.7	3.1	5.3	6.7
Status Yet Unknown*	1.6	1.6	25.0	0.4	2.8	23.5
Lost or Transferred (status unknown) (%)	0.0	0.0	1.6	0.5	0.7	1.0
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	4.7	7.8	7.8	6.2	9.0	10.6
Total % known died or removed as unstable	4.7	7.8	7.8	8.7	12.1	14.1
Total % removed for transplant	60.9	70.3	78.1	61.2	68.2	72.3
Total % with known functioning transplant (alive)	56.2	62.5	46.9	57.5	60.0	41.9

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



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B. Waiting List Information

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

				ranspla	nted at t	ime per			_	
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	240	9.2	32.9	38.3	39.2	13,848	26.4	61.1	67.0	69.3
Ethnicity/Race*										
White	202	10.9	32.7	38.1	39.1	8,362	26.8	62.1	68.1	70.3
African-American	21	0.0	38.1	47.6	47.6	3,323	24.6	57.5	63.4	65.7
Hispanic/Latino	12	0.0	25.0	25.0	25.0	1,455	25.5	61.3	67.0	69.8
Asian	2	0.0	0.0	0.0	0.0	534	36.3	69.7	73.6	75.3
Other	3	0.0	66.7	66.7	66.7	174	19.0	56.3	60.9	64.4
Unknown	0					0				
Age										
<2 years	18	0.0	44.4	44.4	44.4	856	12.7	60.6	61.9	61.9
2-11 years	8	0.0	50.0	50.0	50.0	601	15.3	64.7	71.0	73.9
12-17 years	14	28.6	28.6	42.9	42.9	576	34.5	72.4	78.3	79.9
18-34 years	32	15.6	25.0	31.2	37.5	1,308	28.4	59.0	64.4	67.0
35-49 years	69	5.8	29.0	36.2	36.2	2,571	26.0	59.1	65.0	67.6
50-64 years	87	8.0	33.3	37.9	37.9	5,729	26.2	59.2	66.2	68.9
65-69 years	12	16.7	50.0	50.0	50.0	1,838	31.3	64.1	69.5	71.5
70+ years	0					369	38.2	75.6	77.5	77.5
Gender										
Male	146	10.3	34.2	39.7	41.1	9,748	26.1	59.5	65.8	68.5
Female	94	7.4	30.9	36.2	36.2	4,100	27.0	65.0	69.7	71.1

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



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B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 07/01/2017 and 06/30/2020

Characteristic			ercent t	ransplaı ter	nted at t	ime per		ice listi	_	
	N			2 years	3 years	N				3 years
All	240	9.2	32.9	38.3	39.2	13,848	26.4	61.1	67.0	69.3
Blood Type										
0	119	6.7	21.0	22.7	22.7	6,153	19.1	51.5	57.8	60.9
A	78	14.1	37.2	48.7	51.3	5,061	31.2	67.6	73.5	75.2
В	32	9.4	62.5	62.5	62.5	2,009	31.8	68.3	73.5	75.3
AB	11	0.0	45.5	63.6	63.6	625	42.9	81.0	83.5	83.8
Previous Transplant										
Yes	18	0.0	22.2	22.2	22.2	529	21.2	56.3	60.5	61.8
No	222	9.9	33.8	39.6	40.5	13,319	26.6	61.3	67.2	69.6
Primary Disease										
Cardiomyopathy	130	15.4	45.4	50.8	50.8	8,055	29.0	63.8	69.6	71.7
Coronary Artery Disease	24	4.2	29.2	37.5	37.5	3,424	26.5	57.8	64.4	67.4
Retransplant/Graft Failure	18	0.0	22.2	22.2	22.2	459	21.4	58.6	62.7	64.3
Valvular Heart Disease	6	0.0	0.0	0.0	0.0	130	25.4	53.1	59.2	60.8
Congenital Heart Disease	42	0.0	19.0	28.6	33.3	1,550	15.0	58.2	63.7	65.7
Other	20	5.0	5.0	5.0	5.0	230	21.3	46.5	48.7	50.0
Missing	0					0				
Medical Urgency Status at Lis	ting									
Status 1A	48	4.2	33.3	33.3	33.3	2,584	31.0	70.8	72.6	73.3
Status 1B	36	5.6	38.9	44.4	44.4	2,743	16.3	59.6	66.9	69.6
Status 2	66	0.0	9.1	18.2	18.2	1,701	5.5	42.2	52.1	56.6
Unknown	15	0.0	20.0	20.0	20.0	391	10.5	38.6	44.5	47.6



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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 07/01/2017 and 12/31/2022

	Months to Transplant**								
Percentile	Center	OPO/DSA	Region	U.S.					
5th	0.2	0.2	0.2	0.1					
10th	0.3	0.3	0.2	0.2					
25th	1.7	1.0	0.7	0.7					
50th (median time to transplant)	9.6	5.9	4.0	3.4					
75th	Not Observed	Not Observed	Not Observed	41.6					

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

^{**} Censored on 06/30/2023. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	332	1,374	7,602	66,558
Number of Acceptances	55	105	308	3,903
Expected Acceptances	30.8	84.0	402.1	3,903.3
Offer Acceptance Ratio*	1.74	1.24	0.77	1.00
95% Credible Interval**	[1.32, 2.22]			
PHS increased infectious risk				
Number of Offers	75	307	1,834	17,994
Number of Acceptances	15	21	53	796
Expected Acceptances	4.3	12.3	68.8	798.7
Offer Acceptance Ratio*	2.72	1.61	0.78	1.00
95% Credible Interval**	[1.58, 4.15]			
Ejection fraction < 60				
Number of Offers	176	720	4,168	35,747
Number of Acceptances	32	62	163	1,960
Expected Acceptances	14.4	41.6	200.2	1,952.3
Offer Acceptance Ratio*	2.07	1.47	0.82	1.00
95% Credible Interval**	[1.43, 2.82]			
Donor Age >= 40				
Number of Offers	93	497	3,040	26,890
Number of Acceptances	16	25	74	867
Expected Acceptances	4.8	15.5	97.3	867.3
Offer Acceptance Ratio*	2.66	1.54	0.76	1.00
95% Credible Interval**	[1.57, 4.02]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	72	458	2,788	22,777
Number of Acceptances	9	11	26	319
Expected Acceptances	1.4	5.2	36.3	297.2
Offer Acceptance Ratio*	3.21	1.80	0.73	1.07
95% Credible Interval**	[1.60, 5.37]			
Donor more than 500 miles away				
Number of Offers	147	715	2,809	22,142
Number of Acceptances	15	31	60	934
Expected Acceptances	8.8	28.7	102.8	940.7
Offer Acceptance Ratio*	1.57	1.07	0.59	0.99
95% Credible Interval**	[0.91, 2.40]			

^{*} 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 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, [1.32, 2.22], indicates the location of MNMC's true offer acceptance ratio with 95% probability. The best estimate is 74% more likely to accept an offer compared to national acceptance behavior, but MNMC's performance could plausibly range from 32% higher acceptance up to 122%



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Figure B10. Offer acceptance: Overall

0.1 0.4 National Average Higher

Figure B11. Offer acceptance: PHS increased infectious risk

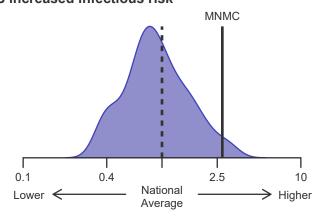
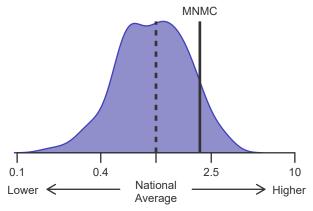


Figure B12. Offer acceptance: Ejection fraction < 60

Figure B13. Offer acceptance: Donor age >= 40



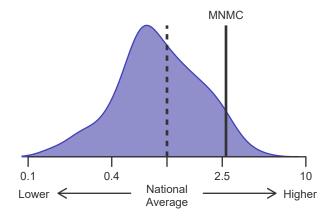


Figure B14. Offer acceptance: Offer number > 50

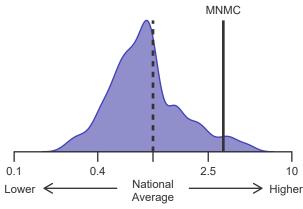
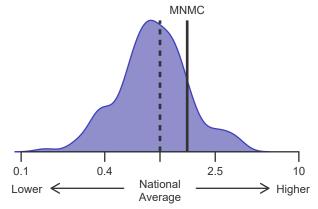


Figure B15. Offer acceptance: Donor more than 500 miles away





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C. Transplant Information

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

	Perce	Percentage in each category	
Characteristic	Center (N=69)	Region (N=373)	U.S. (N=4,442)
Ethnicity/Race (%)*			
White	79.7	66.2	55.4
African-American	10.1	22.3	25.6
Hispanic/Latino	5.8	7.0	12.8
Asian	4.3	3.5	4.6
Other	0.0	1.1	1.6
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	4.3	2.4	3.1
2-11 years	1.4	1.9	3.3
12-17	13.0	5.9	4.6
18-34	11.6	10.2	10.6
35-49 years	20.3	18.0	18.5
50-64 years	30.4	42.6	41.9
65-69 years	10.1	15.3	14.2
70+ years	8.7	3.8	3.8
Gender (%)			
Male	69.6	70.5	71.3
Female	30.4	29.5	28.7

^{*} 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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C. Transplant Information

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

Characteristic Blood Type (%)	Center (N=69)	Region	Ü.S.
Blood Type (%)		(N=373)	(N=4,442)
0	44.9	40.2	43.3
A	39.1	39.9	37.1
В	10.1	13.4	14.9
AB	5.8	6.4	4.7
Previous Transplant (%)			
Yes	4.3	4.3	3.5
No	95.7	95.7	96.5
Body Mass Index (%)			
0-20	20.3	14.2	15.5
21-25	26.1	28.4	29.1
26-30	33.3	27.9	30.1
31-35	15.9	19.0	19.4
36-40	4.3	8.3	4.5
41+	0.0	0.5	0.7
Unknown	0.0	1.6	0.6
Primary Disease (%)	0.0	1.0	0.0
Cardiomyopathy	58.0	63.8	62.7
Coronary Artery Disease	15.9	21.4	24.0
Retransplant/Graft Failure	0.0	0.0	0.0
Valvular Heart Disease	1.4	1.9	
	23.2	11.3	0.8
Congenital Heart Disease			10.3
Other	0.0	1.1	1.9
Missing	1.4	0.5	0.2
Medical Urgency Status at Transplant (%)	40.4	0.0	0.4
Status 1A	10.1	8.0	9.1
Status 1B	8.7	2.7	2.0
Status 2	0.0	0.0	0.3
Adult Status 1	10.1	8.8	11.6
Adult Status 2	37.7	56.8	47.9
Adult Status 3	10.1	10.7	10.5
Adult Status 4	20.3	9.4	12.9
Adult Status 5	1.4	0.3	1.1
Adult Status 6	1.4	3.2	4.6
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	33.3	21.2	25.2
Hospitalized	11.6	15.5	18.8
ICU	55.1	63.3	55.9
Unknown	0.0	0.0	0.1
Recipient Circulatory Support Status at Transplant (%)			
No Support Mechanism	23.2	23.9	24.8
Devices*	60.9	67.0	61.5
Other Support Mechanism	15.9	9.1	13.6
Unknown	0.0	0.0	0.0

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



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C. Transplant Information

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

	Percentage in each category		
Donor Characteristic	Center (N=69)	Region (N=373)	U.S. (N=4,442)
Cause of Death (%)			
Deceased: Stroke	8.7	9.4	10.6
Deceased: MVA	17.4	20.9	18.5
Deceased: Other	73.9	69.7	70.9
Ethnicity/Race (%)*			
White	69.6	63.8	54.5
African-American	15.9	18.2	17.4
Hispanic/Latino	4.3	4.3	7.2
Asian	1.4	1.6	2.0
Other	2.9	1.9	1.6
Not Reported	5.8	10.2	17.4
Age (%)			
<2 years	4.3	2.4	2.3
2-11 years	1.4	2.1	3.1
12-17	11.6	9.4	6.7
18-34	33.3	47.5	50.3
35-49 years	37.7	33.5	33.0
50-64 years	11.6	5.1	4.6
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	69.6	72.1	70.9
Female	30.4	27.9	29.1
Blood Type (%)			
0	58.0	50.4	54.1
A	33.3	37.5	33.7
В	7.2	9.1	10.3
AB	1.4	2.9	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 characteristics Transplants performed between 07/01/2022 and 06/30/2023

	Percentage in each category		
Transplant Characteristic	Center (N=69)	Region (N=373)	U.S. (N=4,442)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	33.3	10.4	11.7
Deceased: 91-180 min	33.3	52.2	56.5
Deceased: 181-270 min	13.3	29.9	25.4
Deceased: 271-360 min	6.7	4.5	3.8
Deceased: 361+ min	13.3	3.0	2.3
Not Reported	0.0	0.0	0.2
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	0.0	1.6	1.4
Deceased: 91-180 min	13.0	14.1	13.5
Deceased: 181-270 min	42.6	61.4	62.7
Deceased: 271-360 min	31.5	17.0	13.2
Deceased: 361+ min	13.0	4.6	8.6
Not Reported	0.0	1.3	0.6
Procedure Type (%)			
Single organ	85.5	85.8	89.2
Multi organ	14.5	14.2	10.8
Donor Location (%)			
Local Donation Service Area (DSA)	21.7	18.0	19.4
Another Donation Service Area (DSA)	78.3	82.0	80.6
Median Time in Hospital After Transplant	17.0 Days	17.0 Days	18.0 Days



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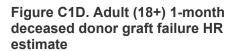
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	79	7,536
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.47% [94.07%-100.00%]	97.05% [96.67%-97.44%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.04%	
Number of observed graft failures (including deaths) during the first month after transplant	2	222
Number of expected graft failures (including deaths) during the first month after transplant	2.36	
Estimated hazard ratio*	0.92	
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 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, 2.01], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 75% reduced risk up to 101% increased risk.



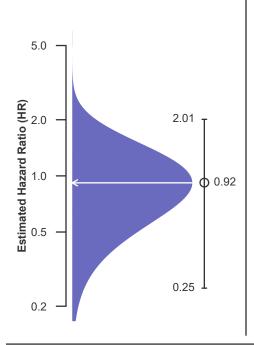
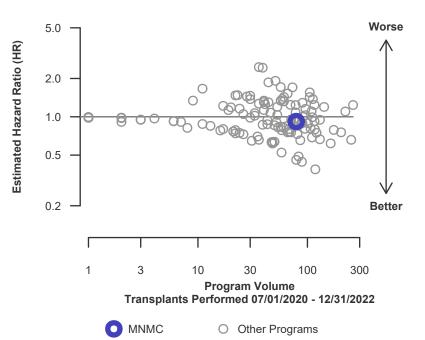


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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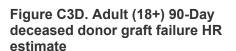
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	79	7,536
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	93.67% [88.45%-99.20%]	94.94% [94.45%-95.44%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.93%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	5	381
Number of expected graft failures (including deaths) during the first 90 days after transplant	4.07	
Estimated hazard ratio*	1.15	
95% credible interval for the hazard ratio**	[0.46, 2.15]	

^{*} 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, [0.46, 2.15], 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 54% reduced risk up to 115% increased risk



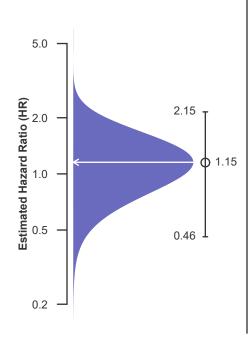
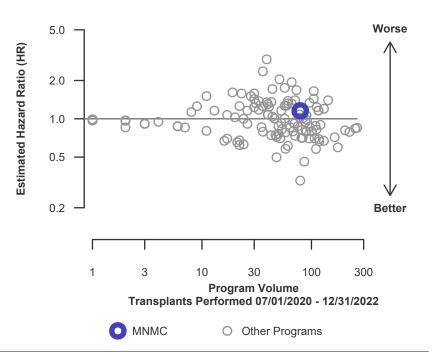


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





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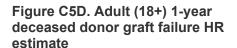
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	79	7,536
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	91.14% [85.08%-97.63%]	91.24% [90.58%-91.90%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.26%	
Number of observed graft failures (including deaths) during the first year after transplant	7	630
Number of expected graft failures (including deaths) during the first year after transplant	6.47	
Estimated hazard ratio*	1.06	
95% credible interval for the hazard ratio**	[0.49, 1.86]	

^{*} 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, [0.49, 1.86], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 6% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 51% reduced risk up to 86% increased risk.



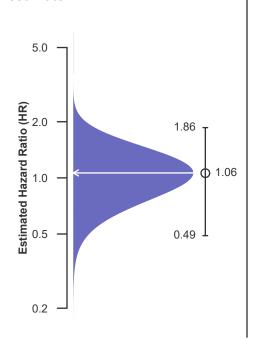
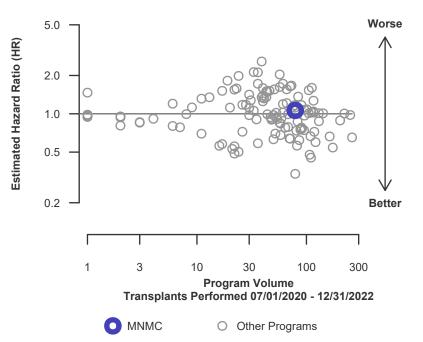


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





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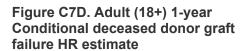
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	74	7,155
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 97.30% [96.19%-98.42%]	96.10% [95.91%-96.29%]
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)	96.14%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	2	249
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	2.40	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.25, 1.99]	

^{*} 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, 1.99], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 9% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 75% reduced risk up to 99% increased risk.



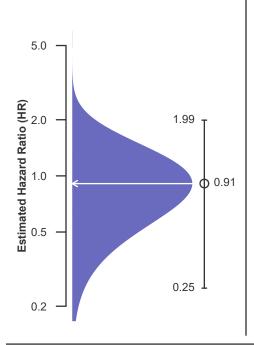
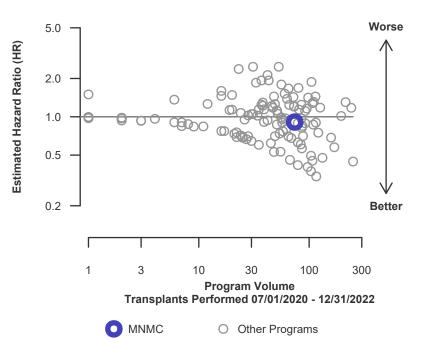


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





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C. Transplant Information

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

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

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

	MNMC	U.S.
Number of transplants evaluated	33	6,166
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.67% [90.45%-100.00%]	84.99% [82.35%-87.72%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	83.96%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	543
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.03	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.12, 1.44]	

^{*} 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.

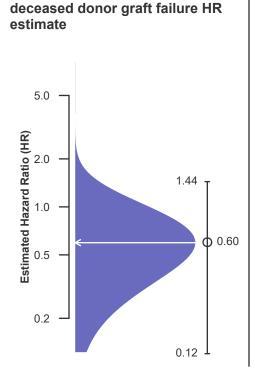
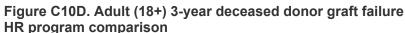
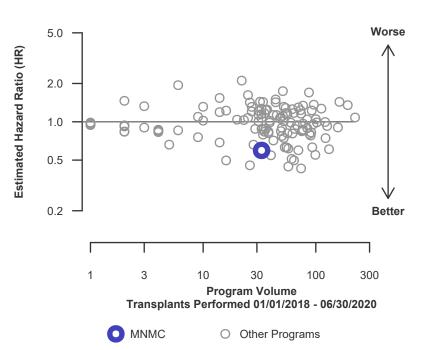


Figure C9D. Adult (18+) 3-year





^{**} The 95% credible interval, [0.12, 1.44], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 40% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 88% reduced risk up to 44% increased risk.



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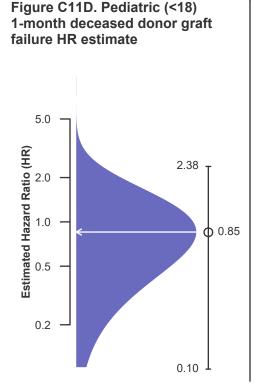
C. Transplant Information

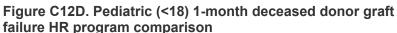
Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

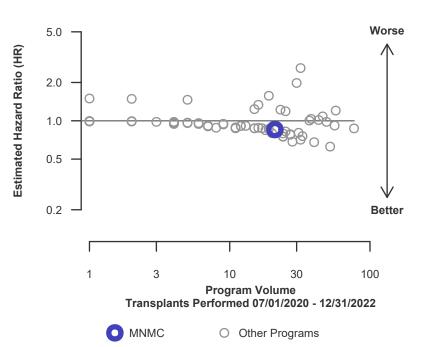
	MNMC	U.S.
Number of transplants evaluated	21	1,231
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.89% [97.09%-98.69%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.38%	
Number of observed graft failures (including deaths) during the first month after transplant	0	26
Number of expected graft failures (including deaths) during the first month after transplant	0.34	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.10, 2.38]	

^{*} 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, 2.38], 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 90% reduced risk up to 138% increased risk.









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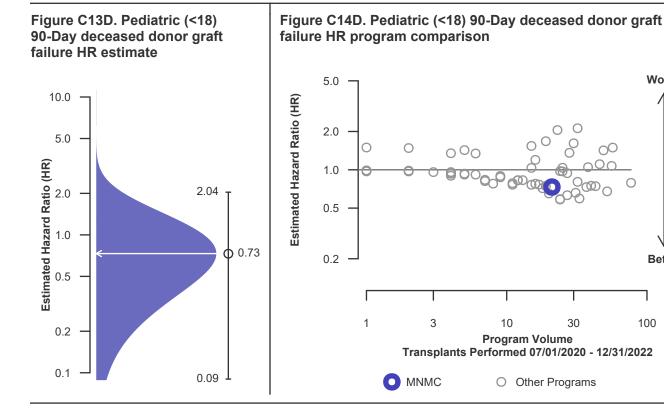
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	21	1,231
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%]	95.61% [94.48%-96.76%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.58%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	54
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.73	
Estimated hazard ratio*	0.73	
95% credible interval for the hazard ratio**	[0.09, 2.04]	

^{*} 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, 2.04], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 27% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 91% reduced risk up to 104% increased risk.



Worse

Better

100

30



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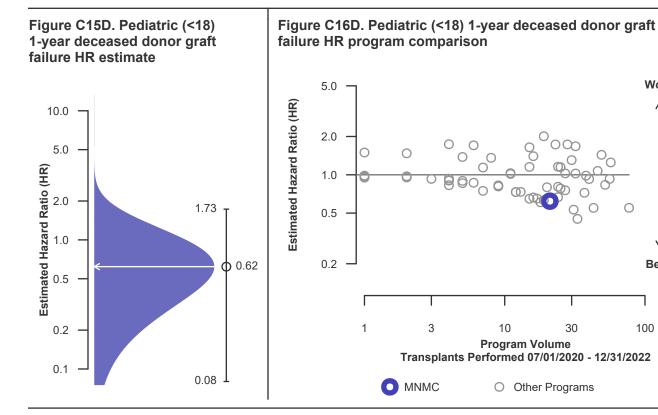
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	21	1,231
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%]	92.33% [90.81%-93.88%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.92%	
Number of observed graft failures (including deaths) during the first year after transplant	0	90
Number of expected graft failures (including deaths) during the first year after transplant	1.22	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.08, 1.73]	

^{*} 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, [0.08, 1.73], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 38% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 92% reduced risk up to 73% increased risk.



Worse

Better

100



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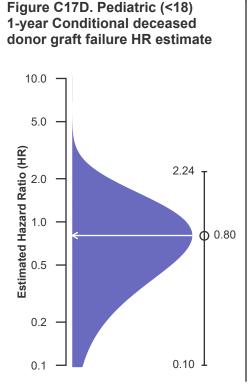
C. Transplant Information

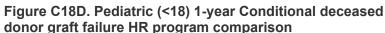
Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2020 and 12/31/2022 Deaths and retransplants are considered graft failures

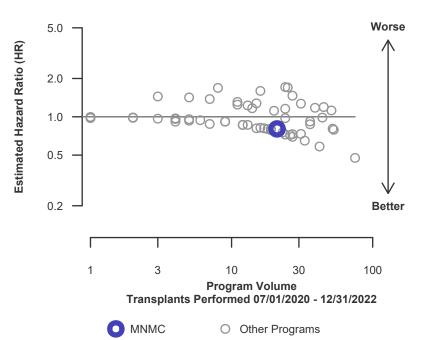
	MNMC	U.S.
Number of transplants evaluated	21	1,177
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [10 (unadjusted for patient and donor characteristics)	100.00% 00.00%-100.00%]	96.57% [96.12%-97.02%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.25%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	36
Number of expected graft failures (including deaths) from day 91 through day 365 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 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, 2.24], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 20% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 90% reduced risk up to 124% increased risk.









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C. Transplant Information

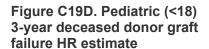
Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	9	1,112
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	72.92% [46.80%-100.00%]	88.90% [86.33%-91.54%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.41%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	87
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.54	
Estimated hazard ratio*	1.58	
95% credible interval for the hazard ratio**	[0.43, 3.45]	

^{*} 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, [0.43, 3.45], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 58% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 57% reduced risk up to 245% increased risk



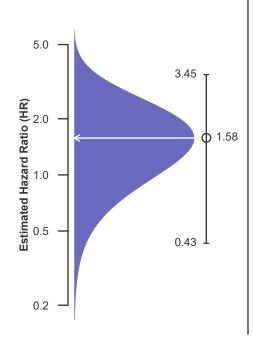
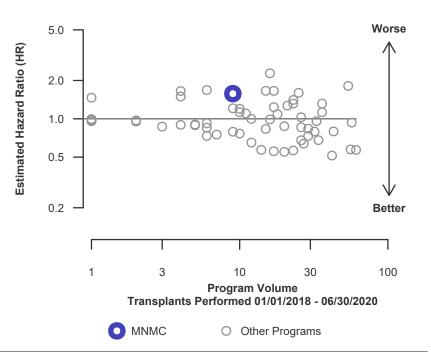


Figure C20D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison





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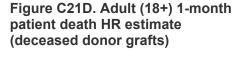
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C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	77	7,365
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.40% [93.91%-100.00%]	97.30% [96.93%-97.67%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.39%	
Number of observed deaths during the first month after transplant	2	199
Number of expected deaths during the first month after transplant	2.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.27, 2.19]	

^{*} 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.



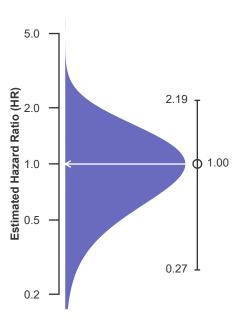
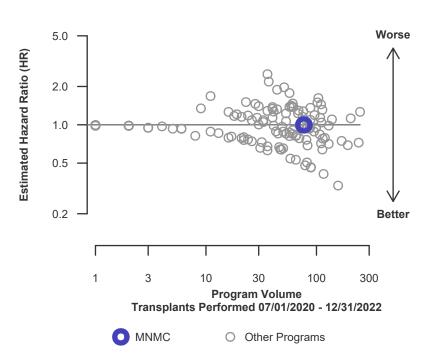


Figure C22D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.27, 2.19], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 73% reduced risk up to 119% increased risk.



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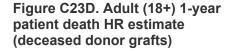
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C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	77	7,365
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	92.21% [86.41%-98.39%]	91.57% [90.92%-92.23%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	91.82%	
Number of observed deaths during the first year after transplant	6	592
Number of expected deaths during the first year after transplant	5.91	
Estimated hazard ratio*	1.01	
95% credible interval for the hazard ratio**	[0.44, 1.82]	

^{*} 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.



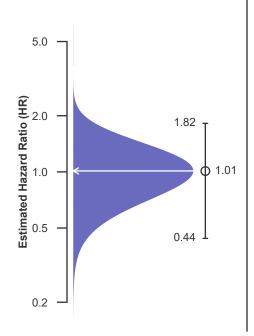
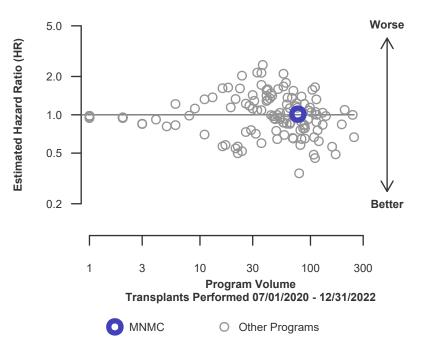


Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.44, 1.82], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 1% higher risk of patient death compared to an average program, but MNMC's performance could plausibly range from 56% reduced risk up to 82% increased risk.



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C. Transplant Information

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

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

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

	MNMC	U.S.
Number of transplants evaluated	31	6,004
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.43% [89.79%-100.00%]	85.92% [83.28%-88.64%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	85.76%	
Number of observed deaths during the first 3 years after transplant	1	499
Number of expected deaths during the first 3 years after transplant	2.42	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.14, 1.64]	

^{*} 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.

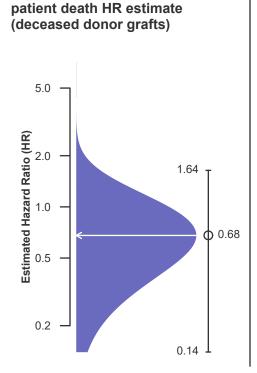
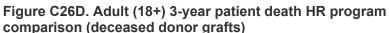
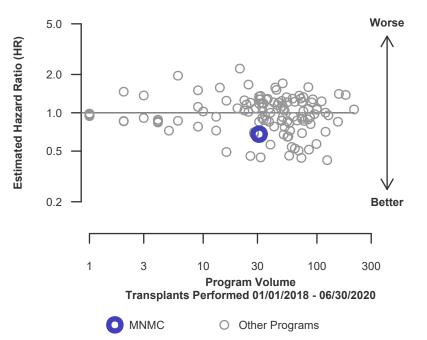


Figure C25D. Adult (18+) 3-year





^{**} The 95% credible interval, [0.14, 1.64], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 32% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 86% reduced risk up to 64% increased risk.



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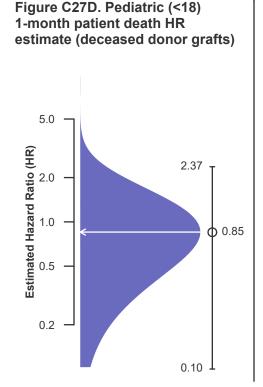
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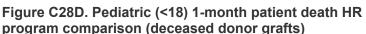
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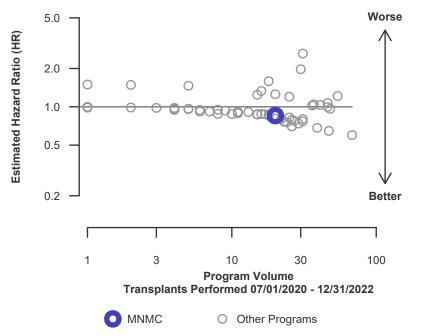
Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2020 and 12/31/2022 Retransplants excluded

	MNMC	U.S.
Number of transplants evaluated	20	1,173
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.87% [97.05%-98.70%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.29%	
Number of observed deaths during the first month after transplant	0	25
Number of expected deaths during the first month after transplant	0.35	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.10, 2.37]	

^{*} The hazard ratio provides an estimate of how 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, 2.37], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 15% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 90% reduced risk up to 137% increased risk.



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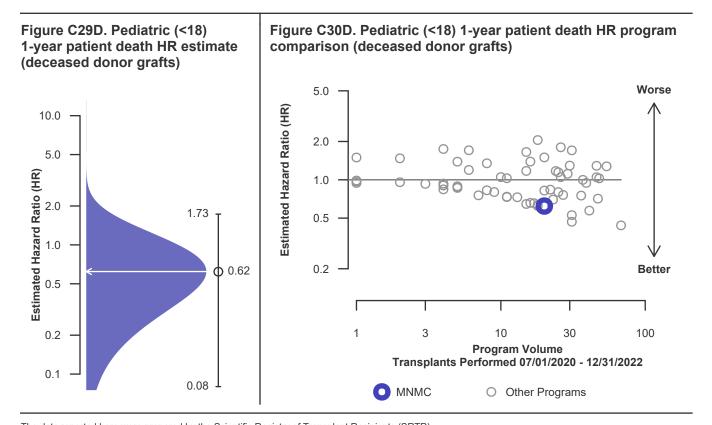
C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	20	1,173
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	92.31% [90.76%-93.90%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.66%	
Number of observed deaths during the first year after transplant	0	86
Number of expected deaths during the first year after transplant	1.22	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.08, 1.73]	

^{*} 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, [0.08, 1.73], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 38% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 92% reduced risk up to 73% increased risk.





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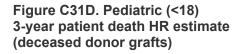
Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)

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

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

	MNMC	U.S.
Number of transplants evaluated	9	1,066
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	72.92% [46.80%-100.00%]	89.10% [86.50%-91.78%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.39%	
Number of observed deaths during the first 3 years after transplant	2	82
Number of expected deaths during the first 3 years after transplant	0.54	
Estimated hazard ratio*	1.57	
95% credible interval for the hazard ratio**	[0.43, 3.45]	

^{*} 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.



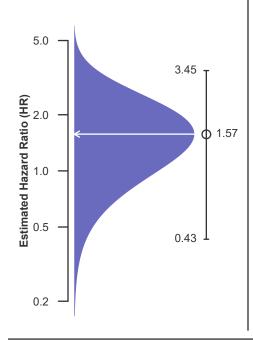
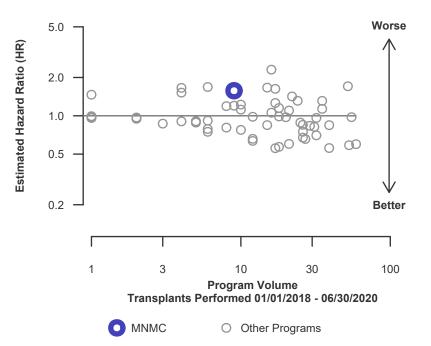


Figure C32D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.43, 3.45], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 57% higher risk of patient death compared to an average program, but MNMC's performance could plausibly range from 57% reduced risk up to 245% increased risk



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C. Transplant Information

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

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Transplants Performed MNMC-TX1 USA		Heart Graft Failures MNMC-TX1 USA		Estimate Graft St MNMC-TX1	urvival
Heart-Lung	9	114	1	21	88.9%	81.6%
Kidney-Heart	16	880	2	91	87.5%	89.7%
Kidney-Liver-Heart Liver-Heart	1 5	19 138	0 2	5 26	100.0% 60.0%	73.7% 81.2%

Pediatric (<18) Transplants

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

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

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Perfori	Transplants Performed Patient Deaths MNMC-TX1 USA MNMC-TX1 USA		Performed Patient Deaths		Estim Patient S MNMC-TX	Survival
Heart-Lung Kidney-Heart Kidney-Liver-Heart Liver-Heart	9 16 1 5	114 880 19 138	1 2 0	21 91 5 26	88.9% 87.5% 100.0% 60.0%	81.6% 89.7% 73.7% 81.2%	

Pediatric (<18) Transplants

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