

SCIENTIFIC REGISTRY OF TRANSPLANT

Mayo Clinic Hospital Minnesota

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

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 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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## User Guide

This report contains a wide range of useful information about the kidney 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 transplant rate at this program was 37.1 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. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2017 and 12/31/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.3 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 - B14 similarly show offer acceptance rates for subsets

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



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of offers.

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

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

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

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

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

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



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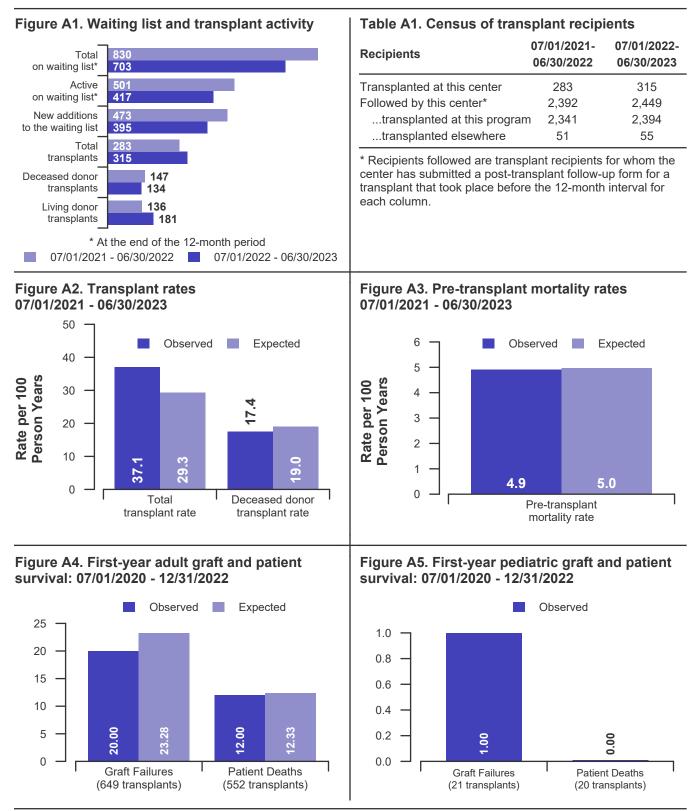
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## A. Program Summary





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## **B. Waiting List Information**

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

		ts for enter	Activity for as percent of		
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	865	830	100.0	100.0	100.0
New listings at this center	473	395	47.6	50.0	47.4
Removals					
Transferred to another center	14	8	1.0	1.2	1.1
Received living donor transplant*	134	180	21.7	10.5	6.3
Received deceased donor transplant*	146	133	16.0	23.9	21.6
Died	34	18	2.2	3.9	4.4
Transplanted at another center	67	76	9.2	4.6	4.7
Deteriorated	33	39	4.7	4.4	4.9
Recovered	5	12	1.4	0.6	0.3
Other reasons	75	56	6.7	6.2	5.1
On waiting list at end of period	830	703	84.7	94.7	98.9

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



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## **B. Waiting List Information**

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

Demographic Characteristic		iting List Reg 022 to 06/30/2		All Waiting List Registrations on 06/30/2023 (%)			
	This Center (N=395)	OPTN Region (N=3,493)	U.S. (N=45,281)	This Center (N=703)	OPTN Region (N=6,623)	U.S. (N=94,494)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	66.6	46.8	40.0	71.1	47.2	35.5	
African-American	12.9	25.1	30.5	10.4	27.0	31.3	
Hispanic/Latino	7.6	17.7	19.8	6.4	14.3	21.5	
Asian	9.6	7.8	8.0	9.2	8.3	9.9	
Other	3.3	2.7	1.7	2.8	3.2	1.8	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.3	0.1	0.2	0.1	0.2	0.1	
2-11 years	1.0	0.7	0.9	0.7	0.7	0.6	
12-17 years	0.3	1.4	1.4	0.3	1.3	1.1	
18-34 years	10.1	11.2	10.1	8.4	10.2	9.6	
35-49 years	28.4	25.4	23.8	25.2	25.6	25.8	
50-64 years	36.7	40.1	41.1	41.3	42.4	43.8	
65-69 years	14.4	13.5	13.6	17.2	13.7	12.5	
70+ years	8.9	7.6	9.0	6.8	5.9	6.5	
Gender (%)							
Male	58.5	61.9	61.9	59.3	60.9	62.2	
Female	41.5	38.1	38.1	40.7	39.1	37.8	

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



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## **B. Waiting List Information**

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

Medical Characteristic		iting List Regi 022 to 06/30/2		All Waiting List Registrations on 06/30/2023 (%)			
	This Center (N=395)	OPTN Region (N=3,493)	U.S. (N=45,281)	This Center (N=703)	OPTN Region (N=6,623)	U.S. (N=94,494)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	45.1	48.2	49.5	54.3	54.9	54.5	
A	34.7	32.7	31.7	29.9	26.8	26.8	
В	13.9	14.1	15.0	13.5	15.5	16.2	
AB	6.3	5.0	3.8	2.3	2.9	2.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	16.7	14.0	12.4	17.9	17.0	13.4	
No	83.3	86.0	87.6	82.1	83.0	86.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Initial CPRA (%)							
0-9%	43.3	46.7	45.1	59.5	66.8	65.8	
10-79%	25.8	11.8	15.0	22.2	12.1	14.3	
80+%	9.1	6.0	7.5	8.4	6.1	7.0	
Unknown	21.8	35.5	32.3	10.0	15.0	13.0	
Primary Disease (%)*							
Glomerular Diseases	28.6	20.4	18.2	27.0	20.7	18.0	
Tubular and Interstitial Diseases	6.8	4.6	3.6	6.0	4.6	3.7	
Polycystic Kidneys	14.2	7.8	6.7	13.4	8.2	6.8	
Congenital, Familial, Metabolic	2.5	2.5	2.0	2.7	2.6	1.9	
Diabetes	24.1	31.3	35.2	25.3	30.4	37.2	
Renovascular & Vascular Disease	s 0.3	0.2	0.1	0.3	0.2	0.1	
Neoplasms	0.3	0.5	0.5	0.3	0.5	0.4	
Hypertensive Nephrosclerosis	5.8	17.7	20.1	8.8	19.9	20.5	
Other	16.7	14.6	13.3	15.5	12.3	11.2	
Missing*	0.8	0.5	0.3	0.7	0.6	0.3	

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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## **B. Waiting List Information**

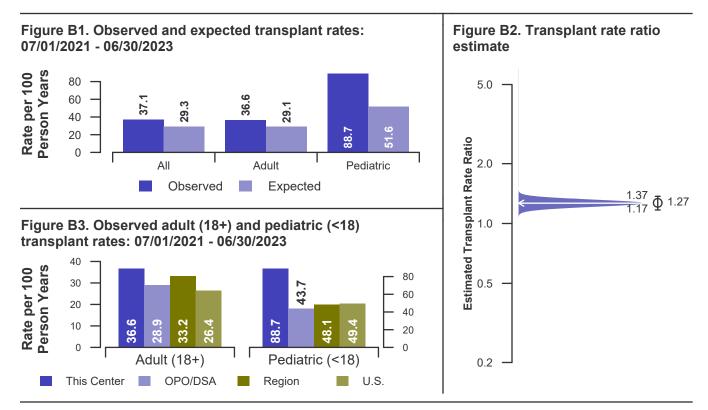
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### Table B4. Transplant rates: 07/01/2021 - 06/30/2023

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	865	2,415	6,994	95,920
Person Years**	1,599.3	4,650.1	13,981.3	190,344.1
Removals for Transplant	593	1,363	4,687	51,007
Adult (18+) Candidates				
Count on waiting list at start*	854	2,355	6,835	94,262
Person Years**	1,583.5	4,531.2	13,683.8	186,898.2
Removals for transpant	579	1,311	4,544	49,303
Pediatric (<18) Candidates				
Count on waiting list at start*	11	60	159	1,658
Person Years**	15.8	119.0	297.5	3,446.0
Removals for transplant	14	52	143	1,704

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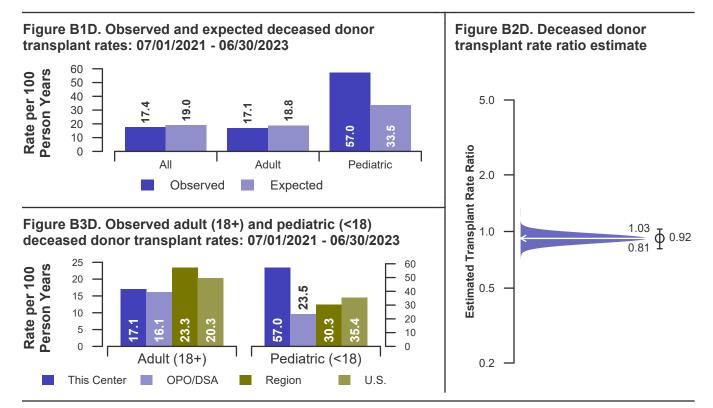
## **B. Waiting List Information**

### Table 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*	865	2,415	6,994	95,920
Person Years**	1,599.3	4,650.1	13,981.3	190,344.1
Removals for Transplant	279	757	3,285	39,192
Adult (18+) Candidates				
Count on waiting list at start*	854	2,355	6,835	94,262
Person Years**	1,583.5	4,531.2	13,683.8	186,898.2
Removals for transpant	270	729	3,195	37,972
Pediatric (<18) Candidates				
Count on waiting list at start*	11	60	159	1,658
Person Years**	15.8	119.0	297.5	3,446.0
Removals for transplant	9	28	90	1,220

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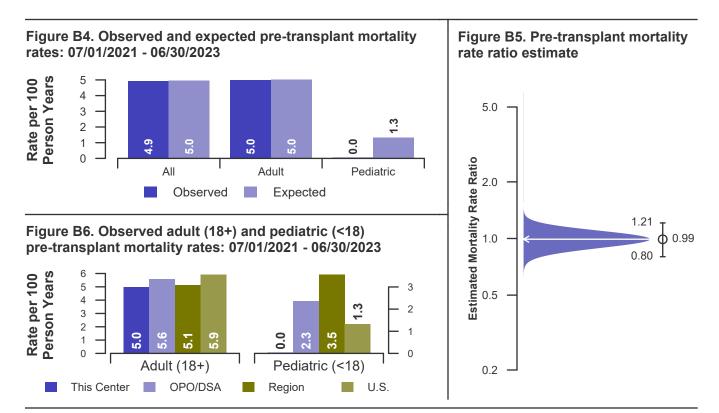
## **B. Waiting List Information**

### 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*	865	2,415	6,994	95,920
Person Years**	1,788.5	5,020.8	15,141.2	206,669.1
Number of deaths	88	276	771	12,027
Adult (18+) Candidates				
Count on waiting list at start*	854	2,355	6,835	94,262
Person Years**	1,769.7	4,893.1	14,831.0	203,095.3
Number of deaths	88	273	760	11,980
Pediatric (<18) Candidates				
Count on waiting list at start*	11	60	159	1,658
Person Years**	18.7	127.7	310.2	3,573.8
Number of deaths	0	3	11	47

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

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





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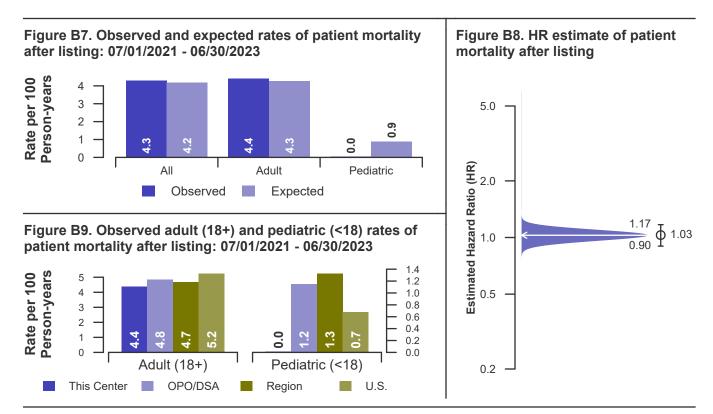
## **B. Waiting List Information**

### 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	3,325	7,762	25,011	314,413
Person-years*	5,098.9	11,603.6	36,891.7	464,808.0
Number of Deaths	219	544	1,682	23,649
Adult (18+) Patients				
Count at risk during the evaluation period	3,261	7,479	24,279	305,285
Person-years*	4,988.4	11,169.5	35,756.6	450,734.0
Number of Deaths	219	539	1,667	23,554
Pediatric (<18) Patients				
Count at risk during the evaluation period	64	283	732	9,128
Person-years*	110.5	434.1	1,135.1	14,074.0
Number of Deaths	0	5	15	95

\* 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 7 years after listing or June 30, 2023.

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





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## **B. Waiting List Information**

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

Waiting list status (survival status)		Center (N ns Since L 12			U.S. (N=41,483) Months Since Listing 6 12 18			
Alive on waiting list (%)	74.3	54.2	42.5	73.8	60.1	49.7		
Died on the waiting list without transplant (%)	1.2	2.1	3.1	1.5	2.6	3.5		
Removed without transplant (%):								
Condition worsened (status unknown)	0.8	1.8	3.1	0.7	1.6	2.7		
Condition improved (status unknown)	0.4	0.4	0.6	0.1	0.2	0.3		
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.1		
Other	1.2	2.9	4.3	0.8	1.7	2.9		
Transplant (living donor from waiting list only) (%)	:							
Functioning (alive)	9.7	16.4	16.4	5.3	8.5	7.2		
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0		
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0		
Died	0.0	0.0	0.2	0.0	0.1	0.1		
Status Yet Unknown**	0.2	0.6	4.5	0.1	0.3	3.4		
Transplant (deceased donor) (%):								
Functioning (alive)	7.8	11.7	10.7	15.1	19.2	15.7		
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0		
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.1	0.1		
Died	0.4	0.4	0.4	0.4	0.8	1.1		
Status Yet Unknown*	3.7	8.0	12.3	1.9	4.3	12.5		
Lost or Transferred (status unknown) (%)	0.2	1.4	1.8	0.2	0.5	0.8		
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Total % known died on waiting list or after transplant	1.6	2.5	3.7	1.9	3.4	4.7		
Total % known died or removed as unstable	2.5	4.3	6.8	2.5	5.0	7.3		
Total % removed for transplant	21.8	37.2	44.6	22.9	33.2	40.1		
Total % with known functioning transplant (alive)	17.5	28.1	27.1	20.4	27.7	22.9		

\* 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

Characteristic	Percent transplanted at time periods since listing This Center United States									
onaracteristic	Ν			2 years	3 years	s N				3 years
All	1,457	3.4	14.3	21.1	24.1	101,966	4.8	20.4	28.3	34.3
Ethnicity/Race*										
White	1,120	3.3	13.9	21.1	23.6	39,336	4.8	21.4	29.5	35.2
African-American	108	7.4	13.0	15.7	23.1	31,795	4.9	20.6	29.0	35.3
Hispanic/Latino	86	4.7	24.4	33.7	38.4	20,127	5.1	19.8	27.2	33.3
Asian	121	0.0	11.6	17.4	19.8	8,708	3.0	15.3	22.5	28.5
Other	22	0.0	13.6	22.7	22.7	2,000	6.2	24.2	32.1	37.8
Unknown	0					0				
Age										
<2 years	6	0.0	33.3	66.7	66.7	113	7.1	39.8	61.9	73.5
2-11 years	11	36.4	72.7	72.7	72.7	795	7.2	49.6	66.7	73.8
12-17 years	13	15.4	69.2	84.6	84.6	1,432	7.4	46.6	59.9	65.0
18-34 years	139	1.4	15.1	25.2	30.2	9,879	4.9	22.5	32.3	40.4
35-49 years	308	3.6	19.8	26.0	28.2	24,886	4.5	20.0	28.2	34.7
50-64 years	682	3.5	11.7	18.0	21.3	43,195	4.8	18.8	26.1	31.9
65-69 years	230	2.6	7.8	16.5	19.6	13,952	4.5	19.3	26.5	31.9
70+ years	68	0.0	13.2	13.2	13.2	7,714	5.1	21.8	28.9	33.5
Gender										
Male	832	3.7	12.7	19.2	21.0	63,044	5.0	19.7	27.2	33.1
Female	625	2.9	16.3	23.7	28.2	38,922	4.5	21.5	30.2	36.4

\* 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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## **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 nis Cent		nted at	time per		nce listin ited Sta	•	
	Ν	30 day	1 year	2 years	3 years	S N	30 day	1 year	2 years	3 years
All	1,457	3.4	14.3	21.1	24.1	101,966	4.8	20.4	28.3	34.3
Blood Type										
0	649	3.2	12.5	17.7	19.7	50,773	4.2	17.2	24.0	29.5
A	530	4.2	14.5	24.0	27.5	31,813	6.0	24.7	34.3	41.2
В	211	2.8	15.2	18.0	21.3	15,507	3.3	17.6	25.0	30.8
AB	67	0.0	26.9	41.8	47.8	3,873	8.7	37.9	49.0	55.0
Previous Transplant										
Yes	356	2.8	16.0	22.5	23.9	13,464	3.2	19.2	28.0	34.0
No	1,101	3.5	13.7	20.7	24.2	88,502	5.0	20.6	28.4	34.4
Peak PRA/CPRA										
0-9%	947	4.0	13.0	19.5	22.2	80,298	5.1	20.0	27.5	33.5
10-79%	287	1.7	12.5	20.6	23.3	13,145	4.0	19.3	27.7	34.0
80+%	223	2.7	22.0	28.7	33.2	8,395	3.2	26.3	37.2	43.3
Unknown	0					1	100.0	100.0	100.0	100.0
Primary Disease*										
Glomerular Diseases	345	2.9	12.5	18.3	21.7	18,428	4.0	21.6	31.0	38.3
Tubular & Interstitial Diseases	131	1.5	22.1	25.2	27.5	3,883	6.0	22.7	29.8	35.5
Polycystic Kidneys	141	2.8	13.5	21.3	24.1	6,820	3.9	19.7	29.2	36.8
Congenital, Familial, Metabolic	34	5.9	41.2	41.2	41.2	1,944	5.1	31.3	42.5	49.7
Diabetes	352	1.1	9.7	17.6	21.0	37,915	3.4	15.9	22.4	27.4
Renovascular & Vascular Diseases	6	0.0	16.7	50.0	50.0	169	4.7	22.5	31.4	38.5
Neoplasms	5	40.0	60.0	60.0	60.0	339	7.7	28.6	38.9	42.2
Hypertensive Nephrosclerosis	117	0.0	7.7	11.1	15.4	20,490	5.3	21.5	29.9	36.7
Other	310	8.1	18.1	28.1	30.3	11,630	9.7	29.2	37.2	42.2
Missing*	16	0.0	0.0	0.0	0.0	348	2.0	9.5	17.5	22.7

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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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 1	Fransplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.3	0.8	0.5	0.7
10th	1.6	2.4	1.6	1.8
25th	6.0	7.7	6.8	7.6
50th (median time to transplant)	17.0	24.4	24.4	31.3
75th	Not Observed	Not Observed	Not Observed	Not Observed

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

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



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## **B. Waiting List Information**

### 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	12,289	25,258	183,710	3,093,430
Number of Acceptances	116	338	1,614	19,212
Expected Acceptances	107.6	391.0	1,874.4	19,211.3
Offer Acceptance Ratio*	1.08	0.87	0.86	1.00
95% Credible Interval**	[0.89, 1.28]			
Low-KDRI Donors (KDRI < 1.05)				
Number of Offers	633	2,435	19,692	403,899
Number of Acceptances	41	144	466	5,874
Expected Acceptances	30.4	136.8	541.3	5,881.4
Offer Acceptance Ratio*	1.33	1.05	0.86	1.00
95% Credible Interval**	[0.96, 1.75]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)				
Number of Offers	8,920	18,028	124,432	1,972,323
Number of Acceptances	70	180	945	10,697
Expected Acceptances	64.3	217.9	1,086.1	10,689.1
Offer Acceptance Ratio*	1.09	0.83	0.87	1.00
95% Credible Interval**	[0.85, 1.35]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	2,736	4,795	39,582	717,197
Number of Acceptances	5	14	202	2,639
Expected Acceptances	12.8	36.3	246.9	2,640.4
Offer Acceptance Ratio*	0.47	0.42	0.82	1.00
95% Credible Interval**	[0.19, 0.88]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	9,565	18,158	139,871	2,692,000
Number of Acceptances	1	20	250	3,554
Expected Acceptances	10.7	41.3	290.4	3,731.4
Offer Acceptance Ratio*	0.24	0.51	0.86	0.95
95% Credible Interval**	[0.05, 0.57]			

\* 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 (e.g., an offer acceptance ratio of 0.75 indicates a center accepts 25% fewer offers than is expected based on national offer acceptance practices).

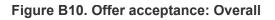
\*\* As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.89, 1.28], indicates the location of MNMC's true offer acceptance ratio with 95% probability. The best estimate is 8% more likely to accept an offer compared to national acceptance behavior, but MNMC's performance could plausibly range from 11% reduced acceptance up to 28% higher acceptance.

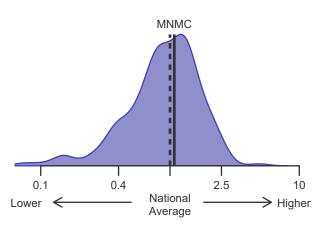


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## **B. Waiting List Information**





### Figure B12. Offer acceptance: Medium-KDRI

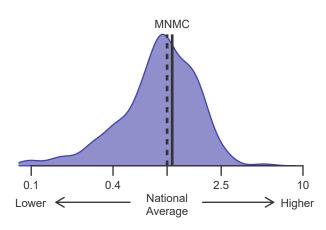
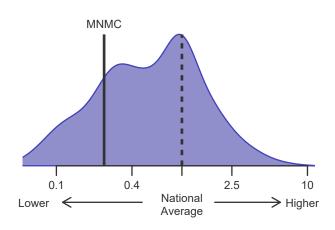


Figure B14. Offer acceptance: Offer number > 100



 $0.1 \qquad 0.4 \qquad 2.5 \qquad 10$ Lower  $\leftarrow$  National Average  $\rightarrow$  Higher

MNMC

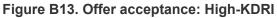
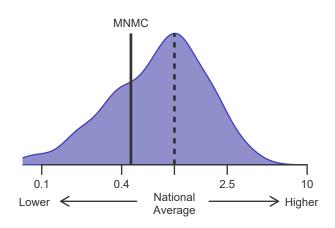


Figure B11. Offer acceptance: Low-KDRI





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## **C. Transplant Information**

TRANSPLANT

### 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=134)	Region (N=1,678)	U.S. (N=20,676)	
Ethnicity/Race (%)*				
White	65.7	38.3	34.6	
African-American	13.4	28.7	34.2	
Hispanic/Latino	6.0	22.6	20.7	
Asian	12.7	8.0	8.7	
Other	2.2	2.4	1.8	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.1	0.1	
2-11 years	0.7	0.7	1.0	
12-17	0.0	1.2	1.4	
18-34	8.2	10.1	9.6	
35-49 years	25.4	24.0	23.5	
50-64 years	32.8	40.9	39.5	
65-69 years	20.9	12.9	13.6	
70+ years	11.9	10.2	11.3	
Gender (%)				
Male	49.3	62.2	60.5	
Female	50.7	37.8	39.5	

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



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## **C. Transplant Information**

TRANSPLANT

RECIPIENTS

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

Characteristic	Percer	Percentage in each category		
	Center (N=181)	Region (N=746)	U.S. (N=6,069)	
Ethnicity/Race (%)*				
White	82.3	67.8	61.3	
African-American	5.5	10.5	12.3	
Hispanic/Latino	4.4	13.8	17.5	
Asian	5.0	6.3	7.5	
Other	2.8	1.6	1.4	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.1	0.1	
2-11 years	0.0	1.1	1.7	
12-17	0.6	1.5	1.8	
18-34	8.3	14.7	15.2	
35-49 years	28.2	26.1	25.9	
50-64 years	42.0	37.1	35.3	
65-69 years	11.0	10.2	9.9	
70+ years	9.9	9.1	10.1	
Gender (%)				
Male	59.7	60.2	62.0	
Female	40.3	39.8	38.0	

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



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## **C. Transplant Information**

TRANSPLANT

RECIPIENTS

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

	Perce	Percentage in each category		
Characteristic	Center (N=134)	Region (N=1,678)	U.S. (N=20,676)	
Blood Type (%)				
0	44.0	46.2	46.8	
A	37.3	34.7	33.5	
В	9.7	14.7	14.9	
AB	9.0	4.5	4.8	
Previous Transplant (%)				
Yes	20.9	14.4	12.3	
No	79.1	85.6	87.7	
Peak PRA/CPRA Prior to Transplant (%)				
0-9%	44.8	54.8	51.2	
10-79%	26.9	20.7	23.7	
80+ %	23.1	15.9	17.9	
Unknown	5.2	8.5	7.2	
Body Mass Index (%)				
0-20	10.4	7.4	8.9	
21-25	21.6	25.9	27.3	
26-30	26.9	30.3	31.0	
31-35	31.3	21.0	21.4	
36-40	9.0	8.4	8.5	
41+	0.7	2.7	1.4	
Unknown	0.0	4.4	1.6	
Primary Disease (%)*				
Glomerular Diseases	30.6	20.0	20.3	
Tubular and Interstitial Disease	11.9	5.5	3.8	
Polycystic Kidneys	6.7	7.2	6.8	
Congenital, Familial, Metabolic	0.7	2.4	2.4	
Diabetes	23.9	28.1	30.8	
Renovascular & Vascular Diseases	0.0	0.2	0.1	
Neoplasms	1.5	0.7	0.5	
Hypertensive Nephrosclerosis	5.2	22.5	23.3	
Other Kidney	17.9	13.0	11.8	
Missing*	1.5	0.5	0.3	

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.

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



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## **C. Transplant Information**

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

	Percentage in each category		
Characteristic	Center (N=181)	Region (N=746)	U.S. (N=6,069)
Blood Type (%)			
0	34.3	38.7	43.0
A	45.9	41.0	38.3
В	12.2	13.1	13.8
AB	7.7	7.1	4.9
Previous Transplant (%)			
Yes	14.9	13.7	11.2
No	85.1	86.3	88.8
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	54.7	65.3	66.0
10-79%	35.9	23.1	22.9
80+ %	6.1	5.2	4.6
Unknown	3.3	6.4	6.4
Body Mass Index (%)			
0-20	11.0	12.9	12.5
21-25	21.0	27.1	29.6
26-30	29.8	29.1	29.3
31-35	27.6	20.6	19.8
36-40	10.5	7.8	7.3
41+	0.0	1.7	1.1
Unknown	0.0	0.8	0.3
Primary Disease (%)*			
Glomerular Diseases	33.7	30.7	29.2
Tubular and Interstitial Disease	5.0	4.4	4.6
Polycystic Kidneys	20.4	15.3	11.5
Congenital, Familial, Metabolic	1.7	3.2	3.3
Diabetes	18.2	21.6	24.7
Renovascular & Vascular Diseases	0.6	0.1	0.1
Neoplasms	0.0	0.4	0.7
Hypertensive Nephrosclerosis	5.5	12.1	15.0
Other Kidney	14.9	11.9	10.4
Missing*	0.0	0.3	0.4

\* When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.

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 07/01/2022 and 06/30/2023

	Perce	Percentage in each category		
Donor Characteristic	Center (N=134)	Region (N=1,678)	U.S. (N=20,676)	
Cause of Death (%)				
Deceased: Stroke	17.2	18.8	20.6	
Deceased: MVA	7.5	10.9	12.7	
Deceased: Other	75.4	70.3	66.7	
Ethnicity/Race (%)*				
White	74.6	57.8	54.4	
African-American	9.0	15.0	14.6	
Hispanic/Latino	4.5	15.5	12.1	
Asian	3.7	1.8	2.8	
Other	3.0	1.4	1.3	
Not Reported	5.2	8.5	14.8	
Age (%)				
<2 years	0.0	0.9	0.6	
2-11 years	2.2	2.0	2.1	
12-17	3.0	3.6	3.5	
18-34	28.4	27.8	30.6	
35-49 years	35.8	34.2	34.9	
50-64 years	29.1	29.6	25.6	
65-69 years	1.5	1.8	2.2	
70+ years	0.0	0.1	0.5	
Gender (%)				
Male	63.4	65.4	64.2	
Female	36.6	34.6	35.8	
Blood Type (%)				
0	46.3	47.4	48.5	
A	39.6	36.8	36.2	
В	6.7	12.6	11.7	
AB	7.5	3.2	3.5	
Unknown	0.0	0.0	0.0	

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



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## **C. Transplant Information**

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

	Percer	Percentage in each category		
Donor Characteristic	Center (N=181)	Region (N=746)	U.S. (N=6,069)	
Ethnicity/Race (%)*				
White	85.1	72.0	65.2	
African-American	2.2	4.7	7.1	
Hispanic/Latino	2.8	8.4	6.2	
Asian	2.2	3.5	5.2	
Other	3.9	3.5	1.8	
Not Reported	3.9	7.9	14.5	
Age (%)				
0-11 years	0.0	0.0	0.0	
12-17	0.0	0.0	0.0	
18-34	17.1	23.5	24.1	
35-49 years	35.4	37.8	38.3	
50-64 years	40.9	32.7	31.5	
65-69 years	3.9	4.4	4.5	
70+ years	2.8	1.6	1.5	
Gender (%)				
Male	30.9	37.5	36.8	
Female	69.1	62.5	63.2	
Blood Type (%)				
0	44.8	52.1	60.2	
A	38.7	34.0	29.1	
В	10.5	9.5	8.7	
AB	6.1	4.3	2.0	
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 07/01/2022 and 06/30/2023

Transplants performed between 07/01/2022 and 06/30/2023	Perce	Percentage in each category		
Transplant Characteristic	Center (N=134)	Region (N=1,678)	U.S. (N=20,676)	
Cold Ischemic Time (Hours): Local (%)				
Deceased: 0-11 hr	24.1	23.7	20.0	
Deceased: 12-21 hr	55.6	52.9	52.2	
Deceased: 22-31 hr	18.5	18.3	23.8	
Deceased: 32-41 hr	0.0	0.6	2.8	
Deceased: 42+ hr	1.9	0.1	0.6	
Not Reported	0.0	4.3	0.7	
Cold Ischemic Time (Hours): Shared (%)	0.0		••••	
Deceased: 0-11 hr	6.2	13.0	8.2	
Deceased: 12-21 hr	50.0	53.3	48.8	
Deceased: 22-31 hr	40.0	25.9	33.5	
Deceased: 32-41 hr	2.5	1.6	7.3	
Deceased: 42+ hr	0.0	0.2	1.2	
Not Reported	1.2	6.0	1.0	
Level of Mismatch (%)	1.2	0.0	1.0	
A Locus Mismatches (%)	16.4	14.2	12.1	
0	16.4			
1	35.8	38.1	39.2	
2	47.8	47.0	48.5	
Not Reported	0.0	0.7	0.2	
B Locus Mismatches (%)				
0	8.2	5.4	6.9	
1	34.3	26.3	25.0	
2	57.5	67.5	67.9	
Not Reported	0.0	0.7	0.2	
DR Locus Mismatches (%)				
0	21.6	16.2	16.3	
1	44.0	46.6	47.4	
2	34.3	36.5	36.2	
Not Reported	0.0	0.7	0.2	
Total Mismatches (%)				
0	6.7	3.9	4.6	
1	0.7	1.3	1.2	
2	6.0	4.4	4.6	
3	18.7	15.5	14.3	
4	28.4	28.8	27.7	
5	26.1	31.8	32.5	
6	13.4	13.8	15.1	
Not Reported	0.0	0.7	0.2	
Procedure Type (%)	0.0	0.1	0.2	
Single organ	90.3	92.4	94.0	
Multi organ	9.7	7.6	6.0	
Dialysis in First Week After Transplant (%)	5.1	7.0	0.0	
Yes	38.8	28.8	33.6	
No	61.2	68.2	66.0	
Not Reported	0.0	3.0	0.4	
Donor Location (%)	40.0	40.0	20.0	
Local Donation Service Area (DSA)	40.3	40.0	39.2	
Another Donation Service Area (DSA)	59.7	60.0	60.8	
Median Time in Hospital After Transplant	3.0 Days	4.0 Days	5.0 Days	

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 C4L. Living donor transplant characteristicsTransplants performed between 07/01/2022 and 06/30/2023

	Percer	ntage in each ca	ategory
Transplant Characteristic	Center (N=181)	Region (N=746)	U.S. (N=6,069)
Relation with Donor (%)			
Related	24.3	30.3	37.0
Unrelated	74.6	69.2	62.2
Not Reported	1.1	0.5	0.8
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	13.8	16.8	16.2
1	45.3	46.1	47.7
2	40.9	33.8	32.2
Not Reported	0.0	3.4	3.9
B Locus Mismatches (%)			
0	9.4	9.7	9.5
1	44.2	39.0	40.1
2	46.4	48.0	46.5
Not Reported	0.0	3.4	3.9
DR Locus Mismatches (%)			
0	19.9	20.0	15.2
1	48.6	47.3	47.2
2	31.5	29.4	33.8
Not Reported	0.0	3.4	3.9
Total Mismatches (%)			
0	4.4	5.4	4.8
1	3.9	3.6	3.4
2	12.2	11.8	11.8
3	19.9	21.0	21.3
4	22.7	20.4	17.6
5	24.9	23.9	24.4
6	12.2	10.6	12.8
Not Reported	0.0	3.4	3.9
Procedure Type (%)			
Single organ	100.0	100.0	100.0
Multi organ	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	1.1	2.1	2.6
No	98.9	97.3	97.2
Not Reported	0.0	0.5	0.2
Median Time in Hospital After Transplant	3.0 Days	3.0 Days	4.0 Days



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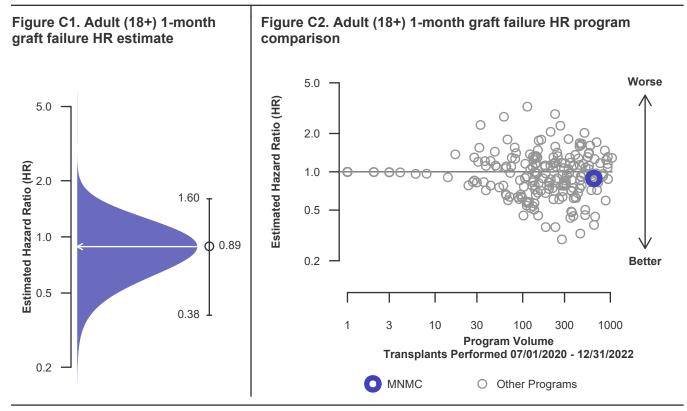
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	649	57,238
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.08% [98.34%-99.81%]	98.46% [98.36%-98.56%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.92%	
Number of observed graft failures (including deaths) during the first month after transplant	6	883
Number of expected graft failures (including deaths) during the first month after transplant	7.02	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.38, 1.60]	

\* 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, [0.38, 1.60], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 11% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 62% reduced risk up to 60% increased risk.





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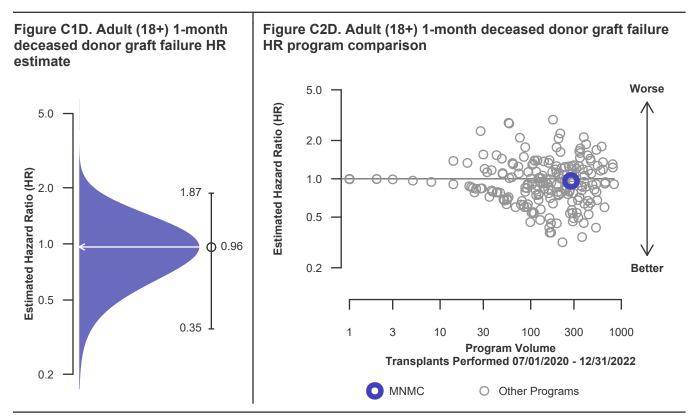
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	278	43,108
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.56% [97.17%-99.97%]	98.21% [98.09%-98.34%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.48%	
Number of observed graft failures (including deaths) during the first month after transplant	4	771
Number of expected graft failures (including deaths) during the first month after transplant	4.23	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.35, 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, [0.35, 1.87], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 4% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 65% reduced risk up to 87% increased risk.





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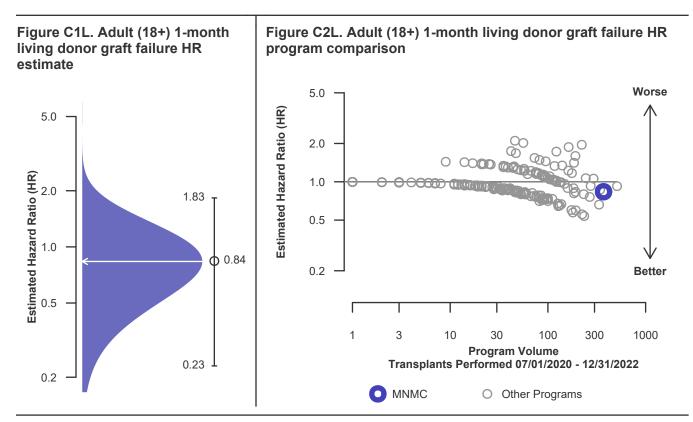
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	371	14,130
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.46% [98.72%-100.00%]	99.21% [99.06%-99.35%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.25%	
Number of observed graft failures (including deaths) during the first month after transplant	2	112
Number of expected graft failures (including deaths) during the first month after transplant	2.79	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.23, 1.83]	

\* 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, 1.83], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 16% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 77% reduced risk up to 83% increased risk.





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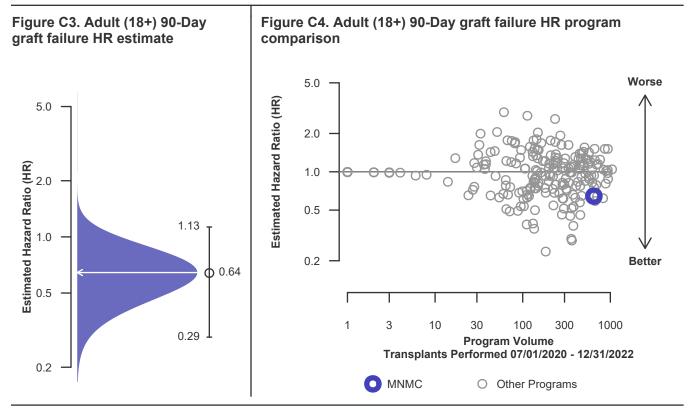
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	649	57,238
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	98.92% [98.13%-99.72%]	97.19% [97.05%-97.32%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.16%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	7	1,609
Number of expected graft failures (including deaths) during the first 90 days after transplant	11.98	
Estimated hazard ratio*	0.64	
95% credible interval for the hazard ratio**	[0.29, 1.13]	

\* 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, [0.29, 1.13], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 36% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 71% reduced risk up to 13% increased risk.





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## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	278	43,108
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	98.56% [97.17%-99.97%]	96.64% [96.47%-96.81%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.14%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	4	1,448
Number of expected graft failures (including deaths) during the first 90 days after transplant	7.97	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.22, 1.17]	

\* 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, 1.17], 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 78% reduced risk up to 17% increased risk.

#### Figure C3D. Adult (18+) 90-Day Figure C4D. Adult (18+) 90-Day deceased donor graft failure deceased donor graft failure HR HR program comparison estimate Worse 5.0 Estimated Hazard Ratio (HR) 5.0 2.0 Estimated Hazard Ratio (HR) 1.0 2.0 0.5 1.17 1.0 C 0.2 Better ф 0.60 0.5 1 3 10 30 100 300 1000 **Program Volume** Transplants Performed 07/01/2020 - 12/31/2022 0.22 0.2 MNMC O Other Programs



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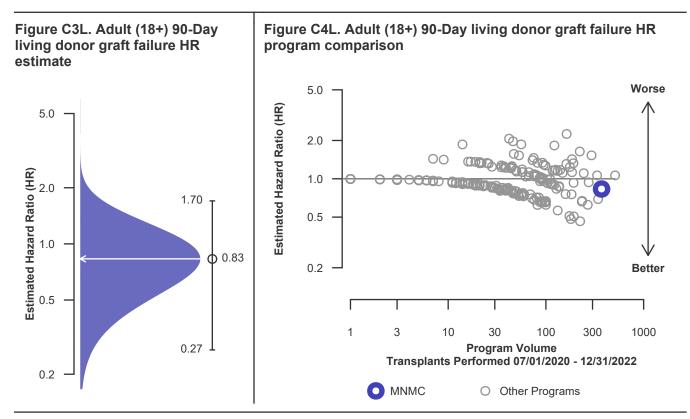
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	371	14,130
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	99.19% [98.28%-100.00%]	98.86% [98.69%-99.04%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.92%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	3	161
Number of expected graft failures (including deaths) during the first 90 days after transplant	4.01	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.27, 1.70]	

\* 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, [0.27, 1.70], 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 73% reduced risk up to 70% increased risk.





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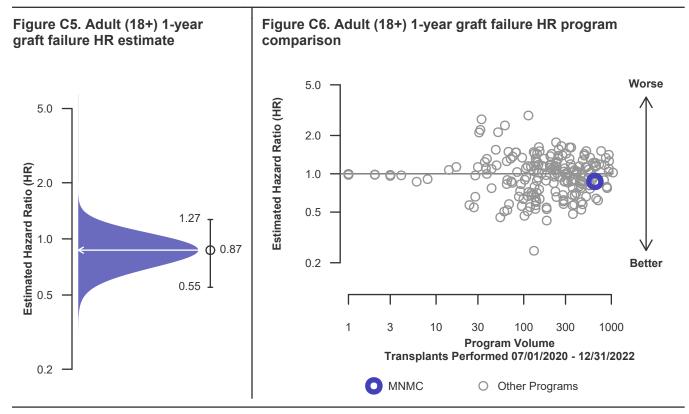
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	649	57,238
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.47% [94.95%-98.02%]	94.09% [93.89%-94.30%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	96.13%	
Number of observed graft failures (including deaths) during the first year after transplant	20	3,146
Number of expected graft failures (including deaths) during the first year after transplant	23.28	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.55, 1.27]	

\* 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, [0.55, 1.27], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 45% reduced risk up to 27% increased risk.





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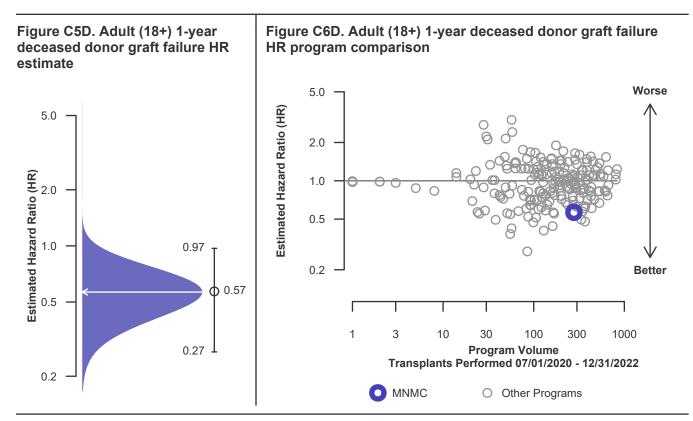
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	278	43,108
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.76% [94.56%-99.02%]	92.92% [92.67%-93.17%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.94%	
Number of observed graft failures (including deaths) during the first year after transplant	8	2,836
Number of expected graft failures (including deaths) during the first year after transplant	15.69	
Estimated hazard ratio*	0.57	
95% credible interval for the hazard ratio**	[0.27, 0.97]	

\* 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, [0.27, 0.97], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 43% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 73% reduced risk up to 3% reduced risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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

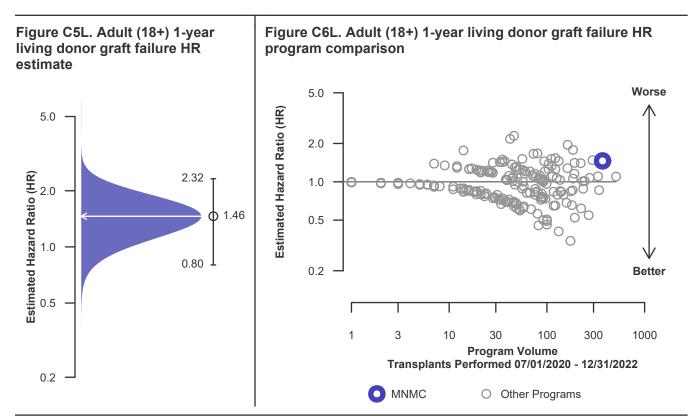
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	371	14,130
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.26% [94.18%-98.38%]	97.65% [97.39%-97.91%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.77%	
Number of observed graft failures (including deaths) during the first year after transplant	12	310
Number of expected graft failures (including deaths) during the first year after transplant	7.59	
Estimated hazard ratio*	1.46	
95% credible interval for the hazard ratio**	[0.80, 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 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, [0.80, 2.32], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 46% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 20% reduced risk up to 132% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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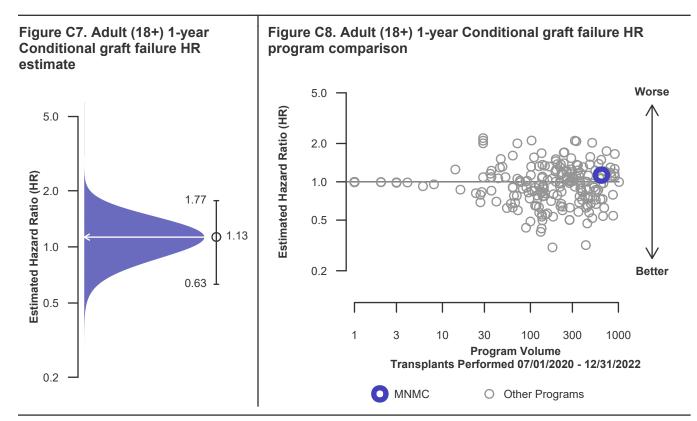
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	642	55,629
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [95% C	97.53% 96.76%-98.30%]	96.81% [96.74%-96.89%]
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)	97.94%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	13	1,537
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	11.30	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.63, 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, [0.63, 1.77], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 13% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 37% reduced risk up to 77% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): KidneyRelease Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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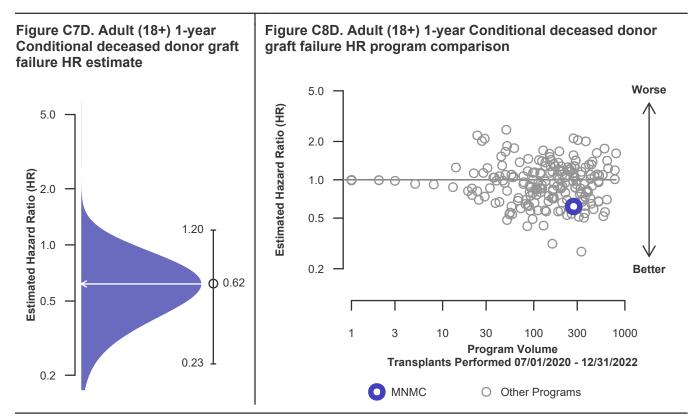
### C. Transplant Information

#### 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	274	41,660
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 98.18% 97.31%-99.05%]	96.15% [96.06%-96.24%]
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)	96.71%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	4	1,388
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	7.72	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.23, 1.20]	

\* 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, 1.20], 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 77% reduced risk up to 20% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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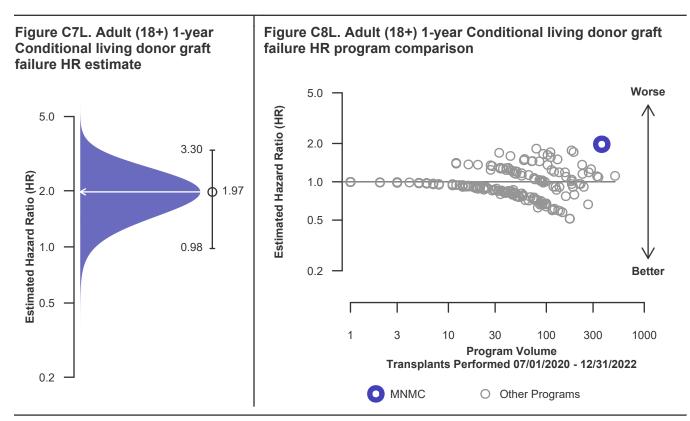
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	368	13,969
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 97.04% 95.83%-98.38%]	98.78% [98.69%-98.87%]
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)	98.84%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	9	149
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	3.58	
Estimated hazard ratio*	1.97	
95% credible interval for the hazard ratio**	[0.98, 3.30]	

\* 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, [0.98, 3.30], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 97% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 2% reduced risk up to 230% increased risk.





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

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## **C. Transplant Information**

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

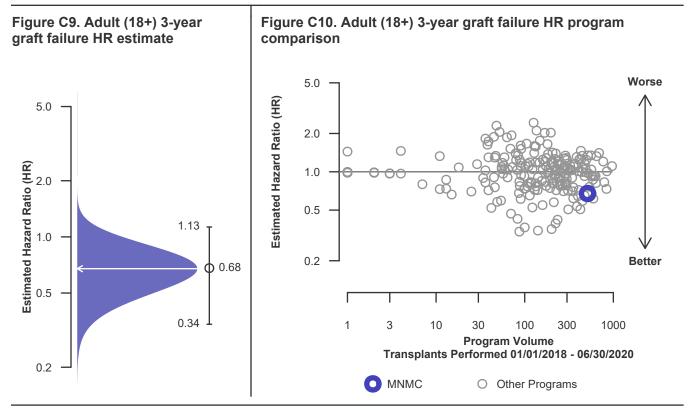
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	512	46,644
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	97.47% [95.69%-99.29%]	89.99% [89.01%-90.98%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	93.96%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	9	2,201
Number of expected graft failures (including deaths) during the first 3 years after transplant	14.29	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.34, 1.13]	

\* 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, [0.34, 1.13], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 32% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 66% reduced risk up to 13% increased risk.





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

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## **C. Transplant Information**

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

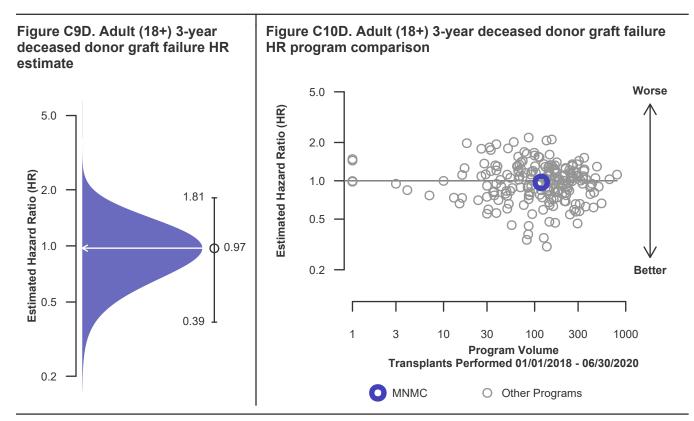
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	118	32,331
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	92.53% [85.21%-100.00%]	87.59% [86.33%-88.87%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.19%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	5	1,898
Number of expected graft failures (including deaths) during the first 3 years after transplant	5.20	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.39, 1.81]	

\* 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, [0.39, 1.81], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 61% reduced risk up to 81% increased risk.





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

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## **C. Transplant Information**

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

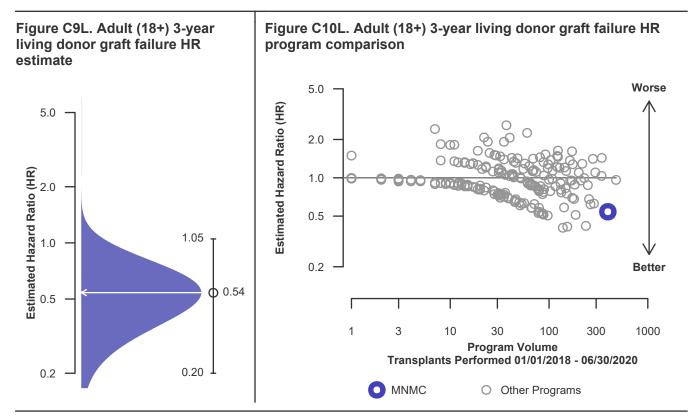
## Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	394	14,313
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	98.68% [97.31%-100.00%]	95.58% [94.34%-96.83%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.39%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	4	303
Number of expected graft failures (including deaths) during the first 3 years after transplant	9.09	
Estimated hazard ratio*	0.54	
95% credible interval for the hazard ratio**	[0.20, 1.05]	

\* 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, [0.20, 1.05], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 46% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 80% reduced risk up to 5% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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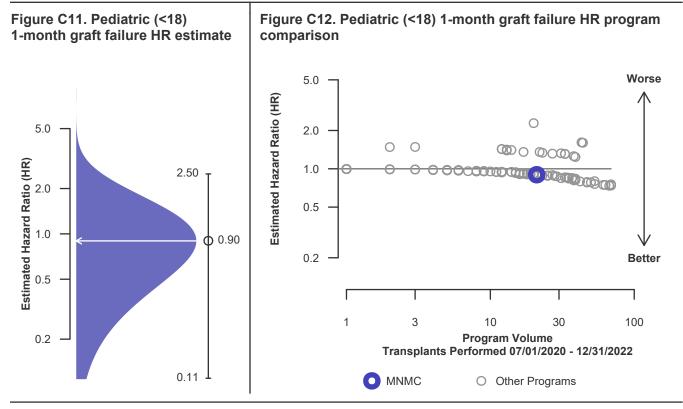
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	21	2,201
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.96% [98.53%-99.38%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.93%	
Number of observed graft failures (including deaths) during the first month after transplant	0	23
Number of expected graft failures (including deaths) during the first month after transplant	0.23	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.50]	

\* 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, [0.11, 2.50], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 150% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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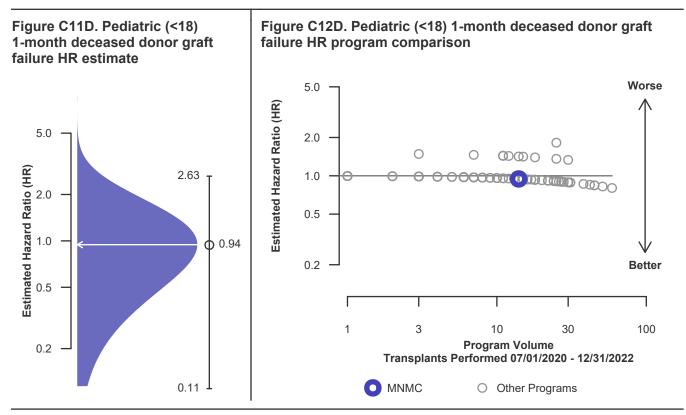
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	14	1,559
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%]	99.17% [98.72%-99.62%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.17%	
Number of observed graft failures (including deaths) during the first month after transplant	0	13
Number of expected graft failures (including deaths) during the first month after transplant	0.12	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.63]	

\* 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, [0.11, 2.63], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 6% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 163% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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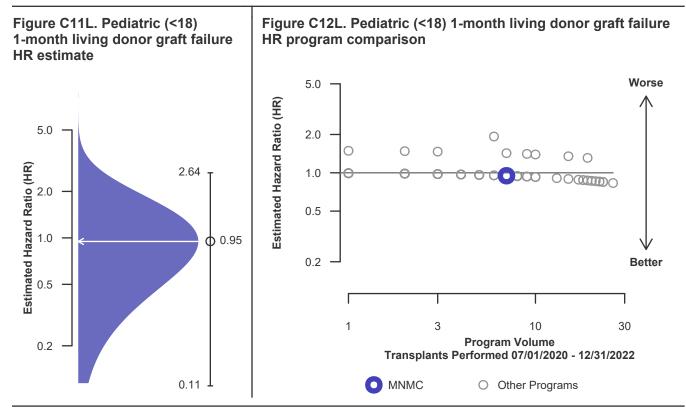
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	7	642
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%]	98.44% [97.49%-99.40%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.44%	
Number of observed graft failures (including deaths) during the first month after transplant	0	10
Number of expected graft failures (including deaths) during the first month after transplant	0.11	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.64]	

\* 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 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, [0.11, 2.64], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 164% increased risk.





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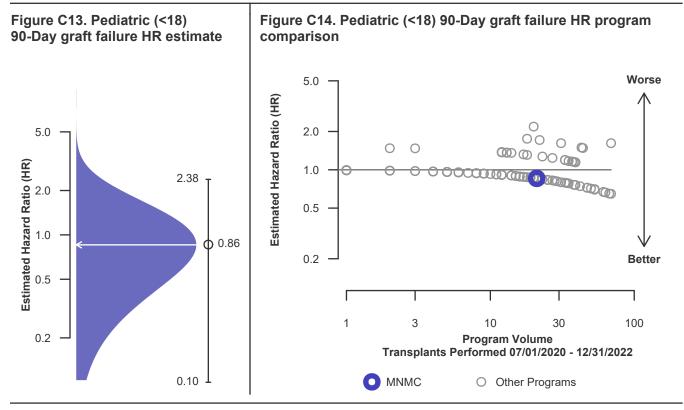
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	21	2,201
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.41% [97.89%-98.93%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.40%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	35
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.34	
Estimated hazard ratio*	0.86	
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 14% 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.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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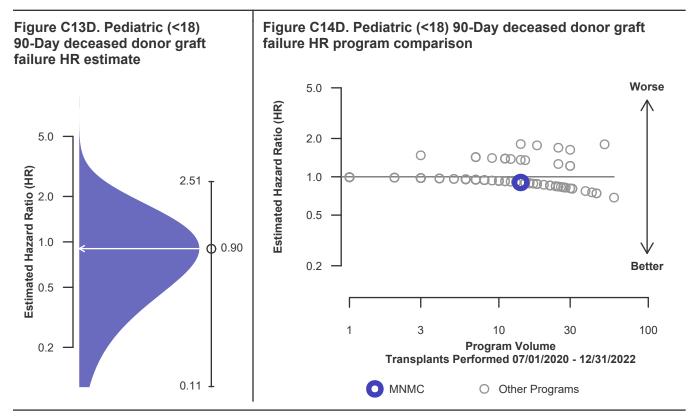
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	14	1,559
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%]	98.46% [97.85%-99.07%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.46%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	24
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.22	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.51]	

\* The hazard ratio provides an estimate of how 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, [0.11, 2.51], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 151% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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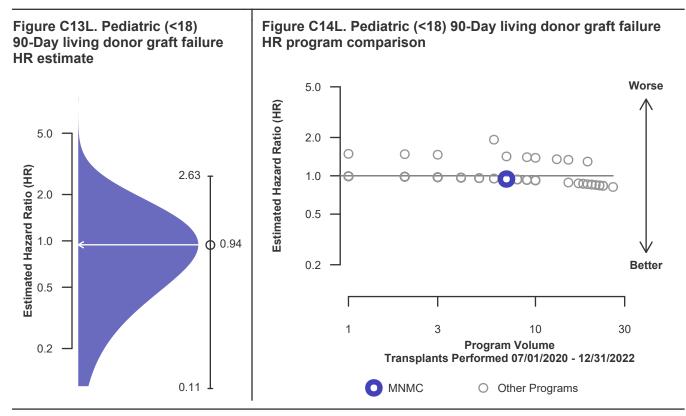
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	7	642
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%]	98.29% [97.29%-99.30%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.29%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	11
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.12	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.63]	

\* 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, [0.11, 2.63], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 6% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 163% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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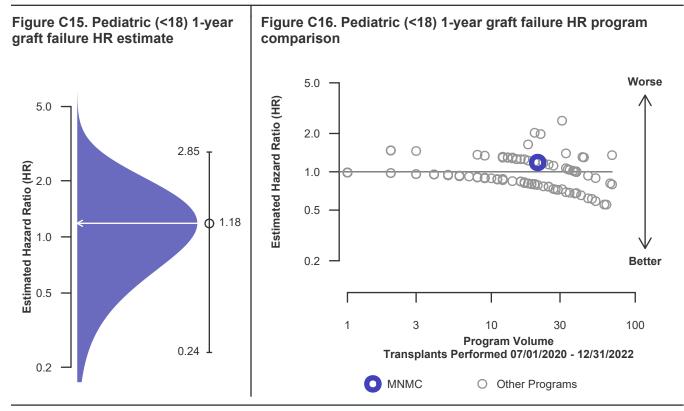
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	21	2,201
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	94.44% [84.43%-100.00%]	97.30% [96.60%-98.00%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.31%	
Number of observed graft failures (including deaths) during the first year after transplant	1	56
Number of expected graft failures (including deaths) during the first year after transplant	0.54	
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 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, [0.24, 2.85], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 18% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 76% reduced risk up to 185% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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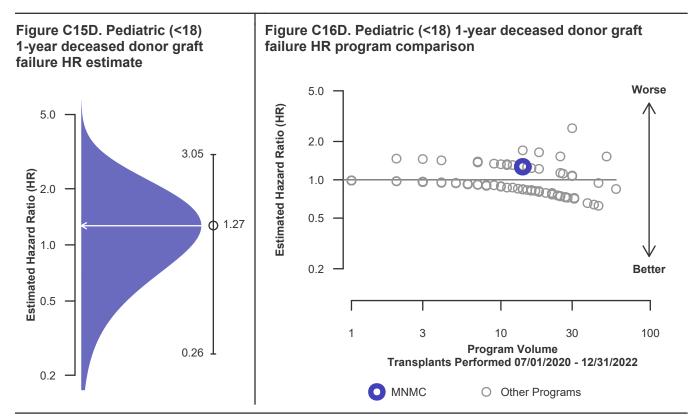
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	14	1,559
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	91.67% [77.29%-100.00%]	97.20% [96.36%-98.05%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.20%	
Number of observed graft failures (including deaths) during the first year after transplant	1	41
Number of expected graft failures (including deaths) during the first year after transplant	0.37	
Estimated hazard ratio*	1.27	
95% credible interval for the hazard ratio**	[0.26, 3.05]	

\* The hazard ratio provides an estimate of how 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, [0.26, 3.05], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 27% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 74% reduced risk up to 205% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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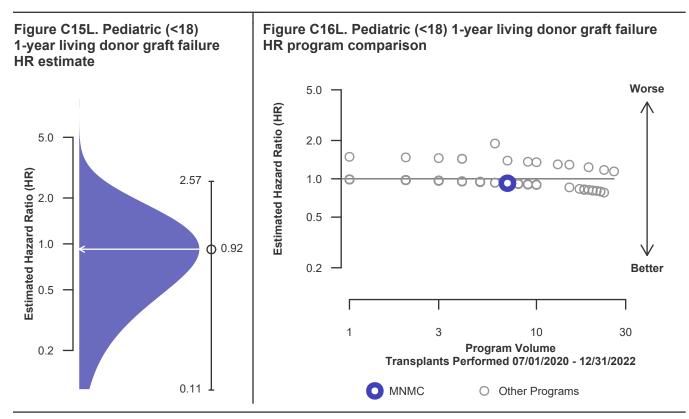
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	7	642
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%]	97.52% [96.29%-98.78%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.53%	
Number of observed graft failures (including deaths) during the first year after transplant	0	15
Number of expected graft failures (including deaths) during the first year after transplant	0.17	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.57]	

\* 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, [0.11, 2.57], 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 89% reduced risk up to 157% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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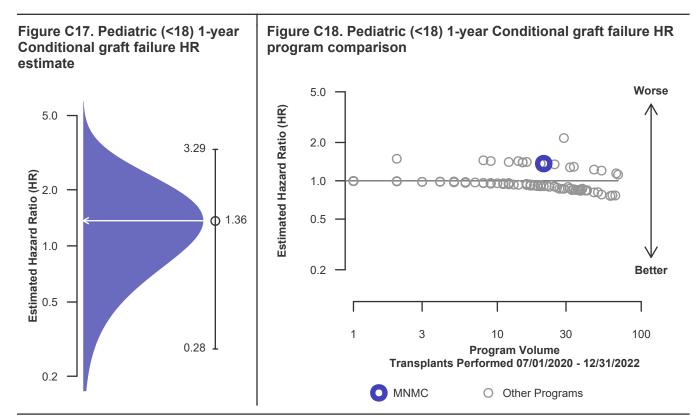
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	21	2,166
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [8 (unadjusted for patient and donor characteristics)	s 94.44% 34.43%-100.00%]	98.87% [98.68%-99.06%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	98.89%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	21
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.20	
Estimated hazard ratio*	1.36	
95% credible interval for the hazard ratio**	[0.28, 3.29]	

\* 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, [0.28, 3.29], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 36% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 72% reduced risk up to 229% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): KidneyRECIPIENTSBased on Data Available: October 31, 2023

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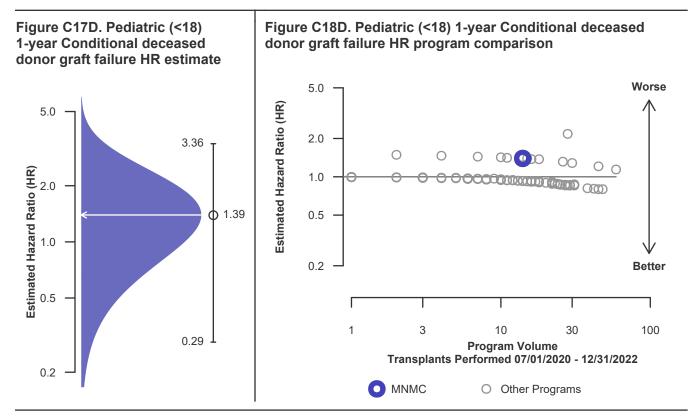
## C. Transplant Information

#### 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	14	1,535
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 & [95% CI] [7 (unadjusted for patient and donor characteristics)	91.67% 7.29%-100.00%]	98.72% [98.47%-98.97%]
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)	98.72%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	17
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.15	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.29, 3.36]	

\* The hazard ratio provides an estimate of how 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, [0.29, 3.36], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 39% higher risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 71% reduced risk up to 236% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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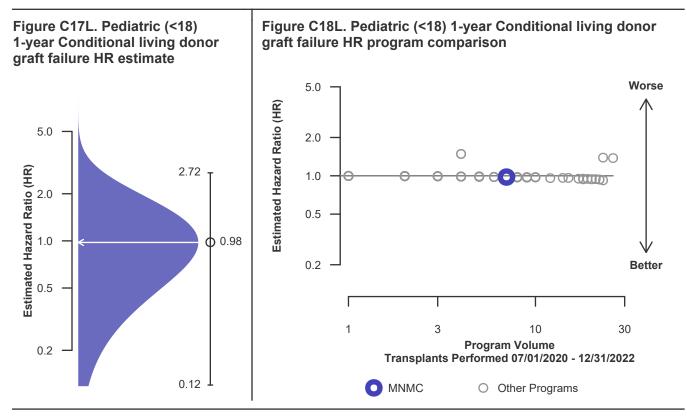
### C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	7	631
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%]	99.22% [98.97%-99.48%]
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)	99.23%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	4
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

\* The hazard ratio provides an estimate of how 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, [0.12, 2.72], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 88% reduced risk up to 172% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## **C. Transplant Information**

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

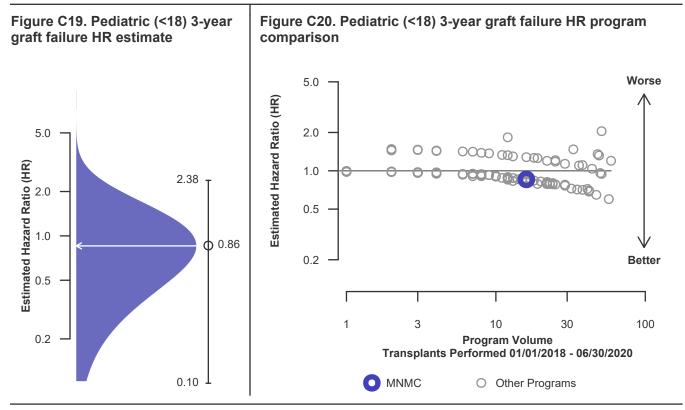
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	16	1,883
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%]	96.67% [95.47%-97.88%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	97.11%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	41
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.34	
Estimated hazard ratio*	0.86	
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 14% 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.





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

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## C. Transplant Information

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

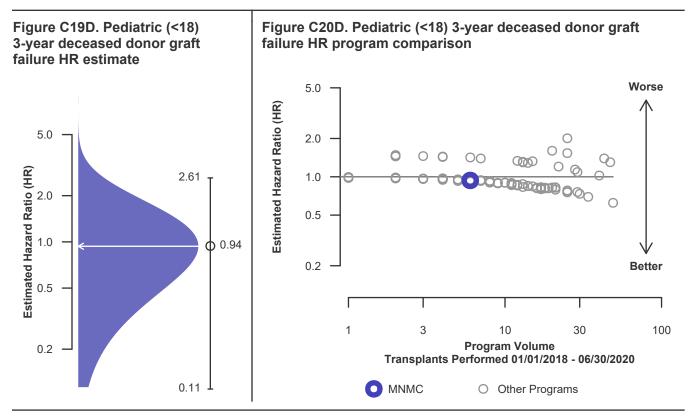
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	6	1,261
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%]	96.16% [94.49%-97.85%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	96.16%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	30
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.14	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.61]	

\* 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, [0.11, 2.61], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 6% lower risk of graft failure compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 161% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## C. Transplant Information

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

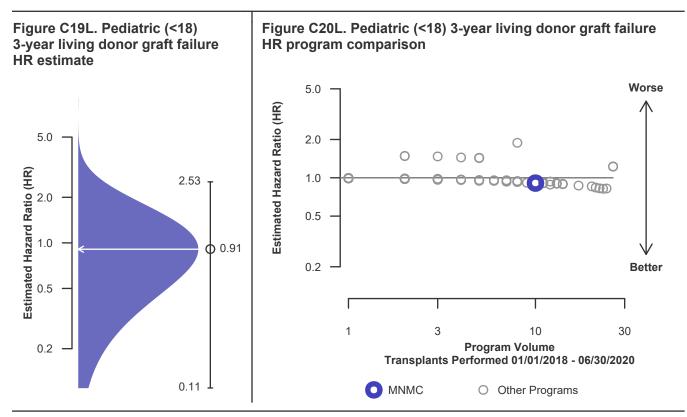
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Deaths and retransplants are considered graft failures

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

	MNMC	U.S.
Number of transplants evaluated	10	622
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%]	97.68% [96.27%-99.11%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	97.68%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	11
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.20	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.11, 2.53]	

\* The hazard ratio provides an estimate of how 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, [0.11, 2.53], 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 89% reduced risk up to 153% increased risk.





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## **C. Transplant Information**

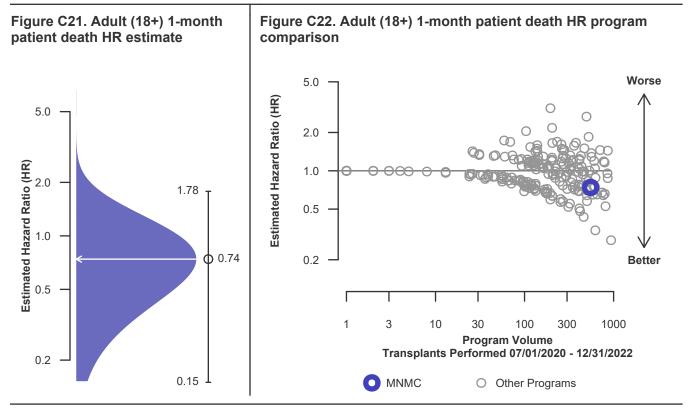
#### Table C15. Adult (18+) 1-month patient survival

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

	MNMC	U.S.
Number of transplants evaluated	552	51,321
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.82% [99.46%-100.00%]	99.46% [99.39%-99.52%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.63%	
Number of observed deaths during the first month after transplant	1	279
Number of expected deaths during the first month after transplant	2.05	
Estimated hazard ratio*	0.74	
95% credible interval for the hazard ratio**	[0.15, 1.78]	

\* 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, [0.15, 1.78], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 26% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 85% reduced risk up to 78% increased risk.





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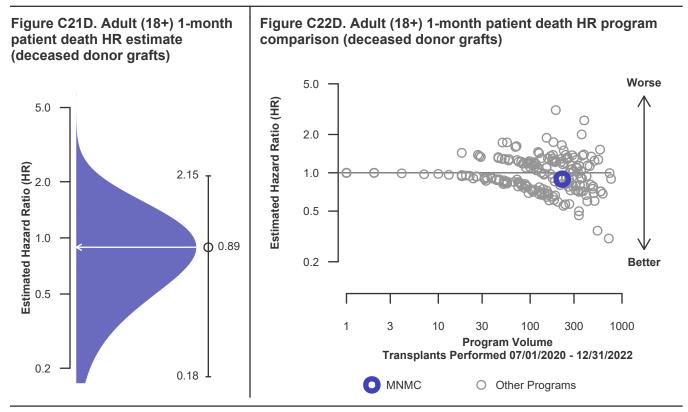
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	223	38,427
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.55% [98.68%-100.00%]	99.35% [99.27%-99.43%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.39%	
Number of observed deaths during the first month after transplant	1	250
Number of expected deaths during the first month after transplant	1.37	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.18, 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 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, [0.18, 2.15], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 11% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 82% reduced risk up to 115% increased risk.





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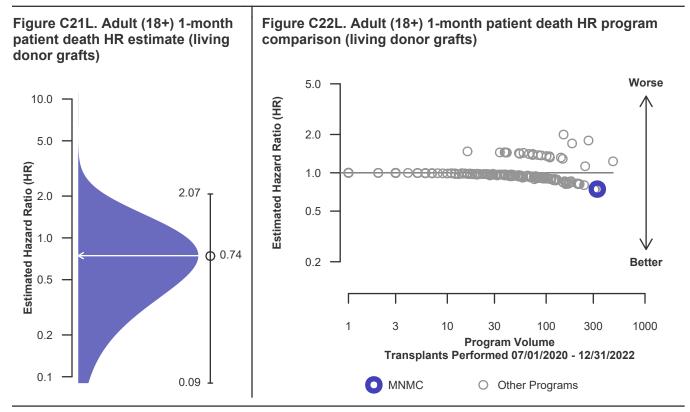
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	329	12,894
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.78% [99.69%-99.86%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.79%	
Number of observed deaths during the first month after transplant	0	29
Number of expected deaths during the first month after transplant	0.69	
Estimated hazard ratio*	0.74	
95% credible interval for the hazard ratio**	[0.09, 2.07]	

\* 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, [0.09, 2.07], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 26% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 91% reduced risk up to 107% increased risk.





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### C. Transplant Information

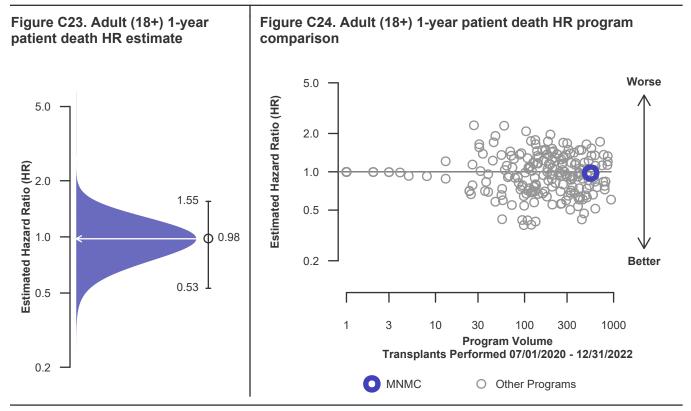
#### Table C16. Adult (18+) 1-year patient survival

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

	MNMC	U.S.
Number of transplants evaluated	552	51,321
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.40% [95.95%-98.88%]	96.27% [96.09%-96.44%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.48%	
Number of observed deaths during the first year after transplant	12	1,733
Number of expected deaths during the first year after transplant	12.33	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.53, 1.55]	

\* 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, [0.53, 1.55], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 47% reduced risk up to 55% increased risk.





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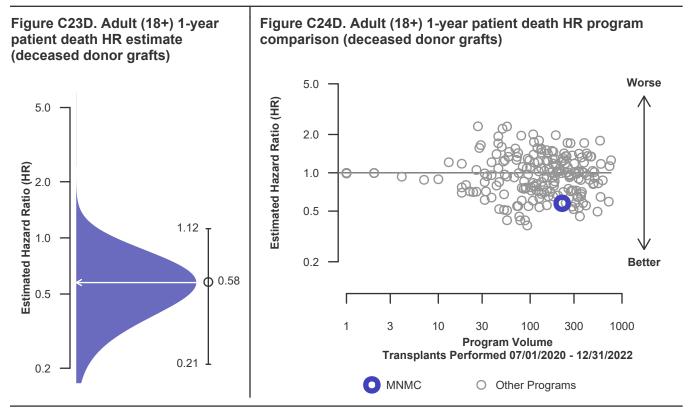
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	223	38,427
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.89% [95.84%-99.98%]	95.50% [95.28%-95.72%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.76%	
Number of observed deaths during the first year after transplant	4	1,561
Number of expected deaths during the first year after transplant	8.42	
Estimated hazard ratio*	0.58	
95% credible interval for the hazard ratio**	[0.21, 1.12]	

\* 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, [0.21, 1.12], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 42% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 79% reduced risk up to 12% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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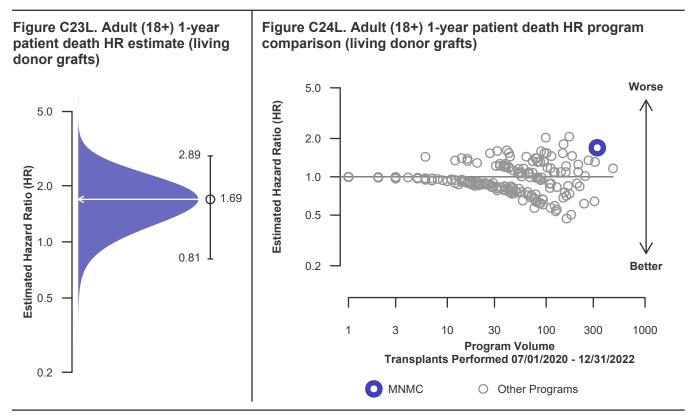
## **C. Transplant Information**

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

	MNMC	U.S.
Number of transplants evaluated	329	12,894
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.08% [95.09%-99.11%]	98.54% [98.32%-98.76%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	98.64%	
Number of observed deaths during the first year after transplant	8	172
Number of expected deaths during the first year after transplant	3.91	
Estimated hazard ratio*	1.69	
95% credible interval for the hazard ratio**	[0.81, 2.89]	

\* 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, [0.81, 2.89], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 69% higher risk of patient death compared to an average program, but MNMC's performance could plausibly range from 19% reduced risk up to 189% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## **C. Transplant Information**

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

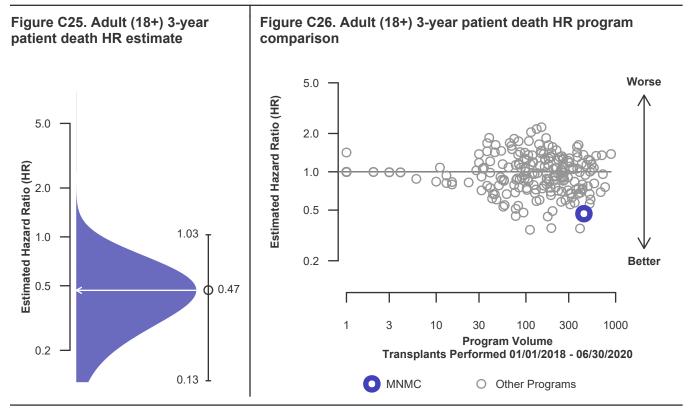
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MNMC	U.S.
Number of transplants evaluated	443	41,537
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	99.41% [98.58%-100.00%]	92.98% [91.96%-94.02%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	96.04%	
Number of observed deaths during the first 3 years after transplant	2	1,094
Number of expected deaths during the first 3 years after transplant	6.54	
Estimated hazard ratio*	0.47	
95% credible interval for the hazard ratio**	[0.13, 1.03]	

\* 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, [0.13, 1.03], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 53% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 87% reduced risk up to 3% increased risk.





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

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## **C. Transplant Information**

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

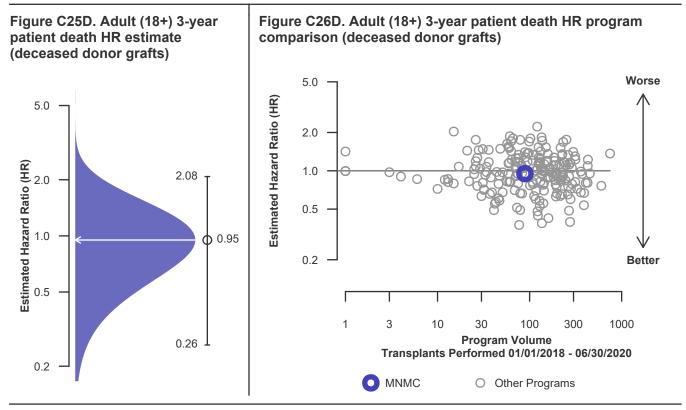
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MNMC	U.S.
Number of transplants evaluated	89	28,569
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.92% [92.77%-100.00%]	91.06% [89.72%-92.42%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.67%	
Number of observed deaths during the first 3 years after transplant	2	960
Number of expected deaths during the first 3 years after transplant	2.21	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.26, 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 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, [0.26, 2.08], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 5% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 74% reduced risk up to 108% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## **C. Transplant Information**

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

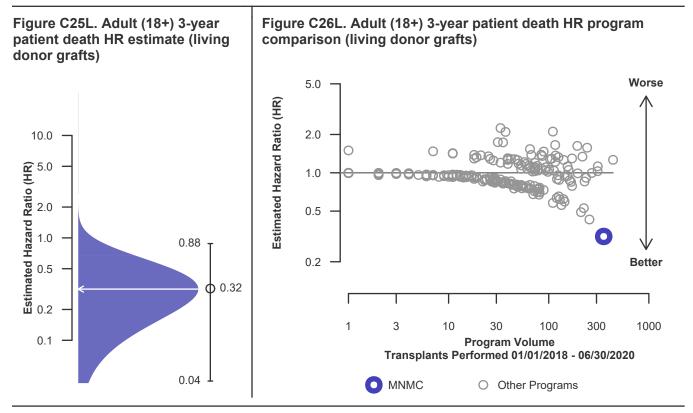
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

· · · · ·	MNMC	U.S.
Number of transplants evaluated	354	12,968
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	97.46% [96.34%-98.60%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	97.14%	
Number of observed deaths during the first 3 years after transplant	0	134
Number of expected deaths during the first 3 years after transplant	4.33	
Estimated hazard ratio*	0.32	
95% credible interval for the hazard ratio**	[0.04, 0.88]	

\* 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, [0.04, 0.88], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 68% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 96% reduced risk up to 12% reduced risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## **C. Transplant Information**

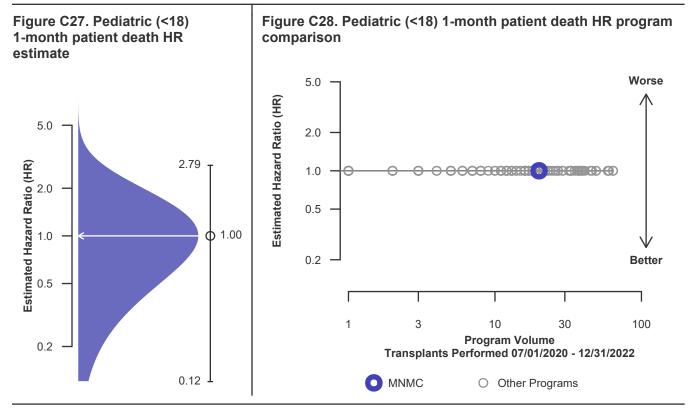
#### Table C18. Pediatric (<18) 1-month patient survival

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

	MNMC	U.S.
Number of transplants evaluated	20	2,028
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	100.00% [100.00%-100.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

\* 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, [0.12, 2.79], 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 88% reduced risk up to 179% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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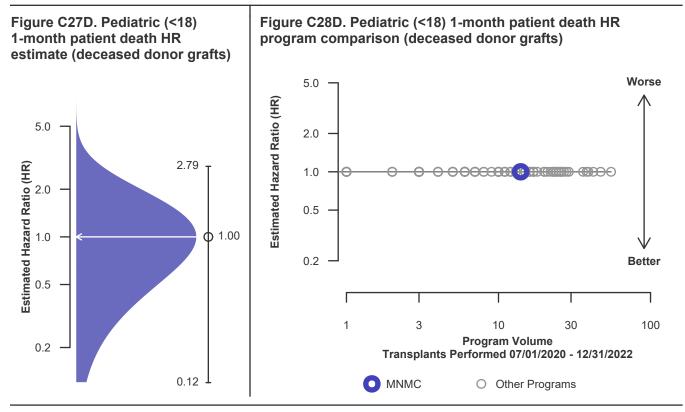
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	14	1,421
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	100.00% [100.00%-100.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

\* 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, [0.12, 2.79], 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 88% reduced risk up to 179% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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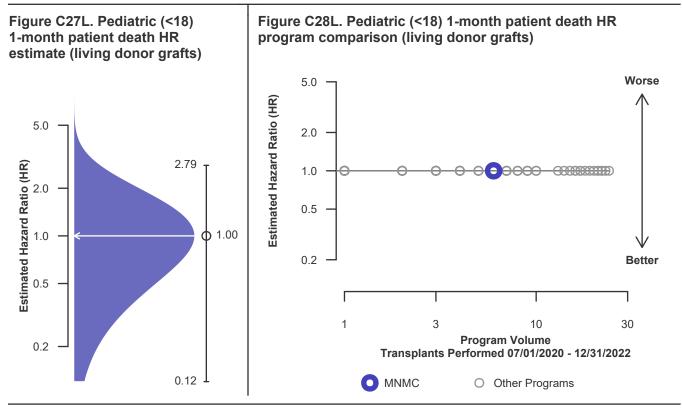
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	6	607
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	100.00% [100.00%-100.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

\* 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, [0.12, 2.79], 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 88% reduced risk up to 179% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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### C. Transplant Information

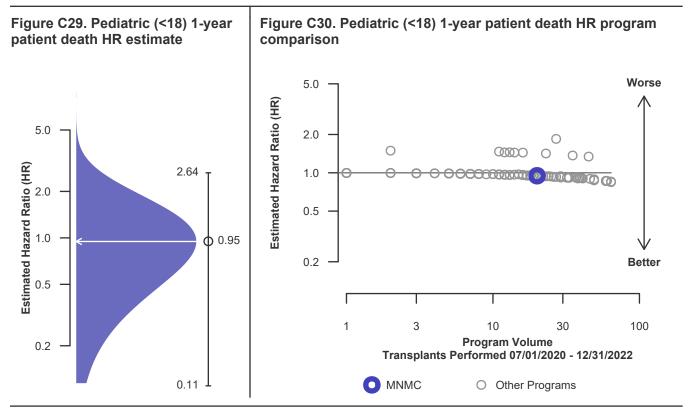
#### Table C19. Pediatric (<18) 1-year patient survival

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

	MNMC	U.S.
Number of transplants evaluated	20	2,028
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.40% [99.05%-99.76%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.40%	
Number of observed deaths during the first year after transplant	0	11
Number of expected deaths during the first year after transplant	0.11	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.64]	

\* 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.

\*\* The 95% credible interval, [0.11, 2.64], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 5% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 164% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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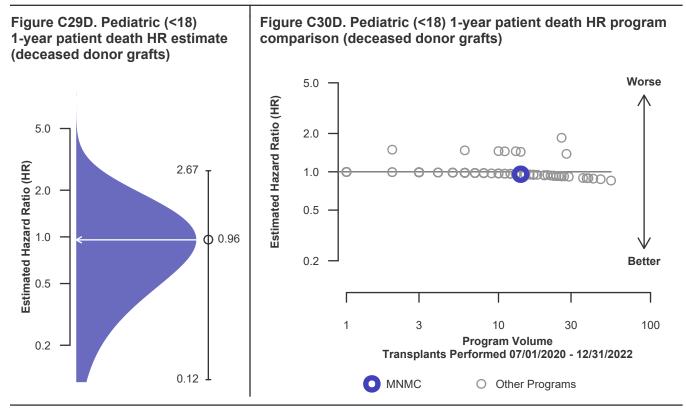
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	14	1,421
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.32% [98.88%-99.77%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.32%	
Number of observed deaths during the first year after transplant	0	9
Number of expected deaths during the first year after transplant	0.09	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

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





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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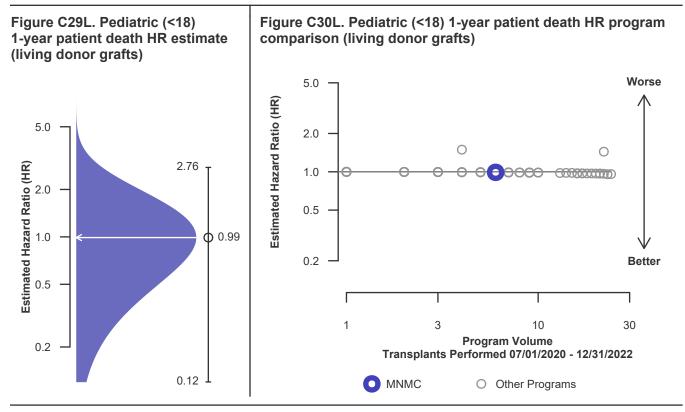
## C. Transplant Information

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

	MNMC	U.S.
Number of transplants evaluated	6	607
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.60% [99.04%-100.00%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.60%	
Number of observed deaths during the first year after transplant	0	2
Number of expected deaths during the first year after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

\* 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, [0.12, 2.76], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 88% reduced risk up to 176% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## **C. Transplant Information**

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

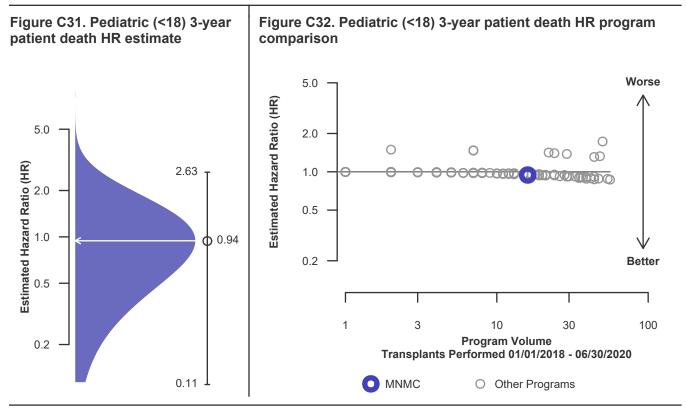
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MNMC	U.S.
Number of transplants evaluated	16	1,721
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.16% [98.57%-99.74%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.08%	
Number of observed deaths during the first 3 years after transplant	0	10
Number of expected deaths during the first 3 years after transplant	0.12	
Estimated hazard ratio*	0.94	
95% credible interval for the hazard ratio**	[0.11, 2.63]	

\* 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, [0.11, 2.63], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 6% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 89% reduced risk up to 163% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## C. Transplant Information

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

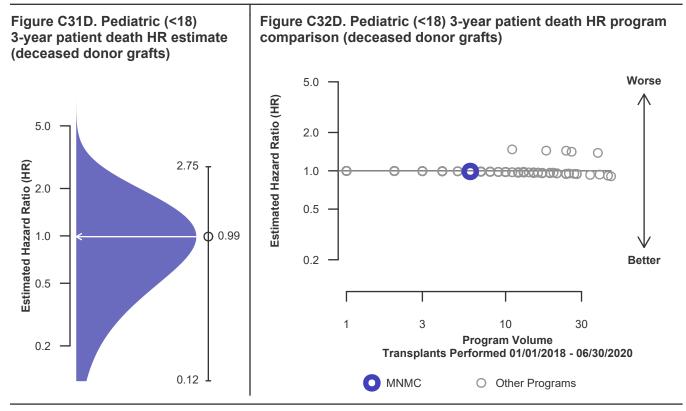
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MNMC	U.S.
Number of transplants evaluated	6	1,146
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	99.25% [98.51%-100.00%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.25%	
Number of observed deaths during the first 3 years after transplant	0	5
Number of expected deaths during the first 3 years after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.75]	

\* 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, [0.12, 2.75], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 88% reduced risk up to 175% increased risk.





REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## **C. Transplant Information**

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

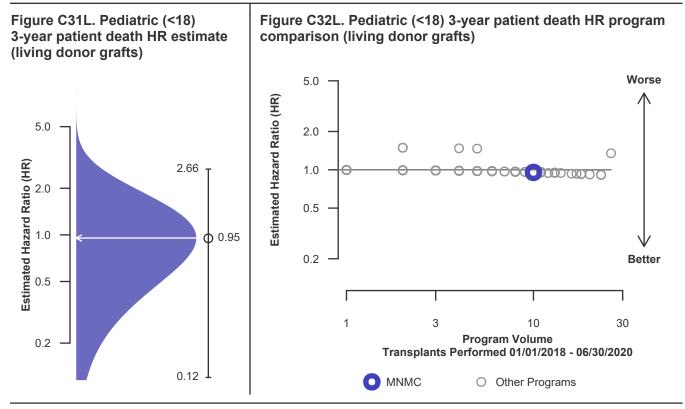
Single organ transplants performed between 01/01/2018 and 03/12/2020, and 06/13/2020 and 06/30/2020 Retransplants excluded

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

	MNMC	U.S.
Number of transplants evaluated	10	575
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.98% [98.05%-99.91%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.98%	
Number of observed deaths during the first 3 years after transplant	0	5
Number of expected deaths during the first 3 years after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.66]	

\* 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, [0.12, 2.66], indicates the location of MNMC's true hazard ratio with 95% probability. The best estimate is 5% lower risk of patient death compared to an average program, but MNMC's performance could plausibly range from 88% reduced risk up to 166% 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		Kidney Graft Failures		Estimated Kidney Graft Survival	
	MNMC-TX1	USA	MNMC-TX1	USA	MNMC-TX1	USA
Kidney-Heart	16	879	3	123	81.2%	86.0%
Kidney-Liver-Heart	1	19	0	5	100.0%	73.7%
Kidney-Liver	22	1,926	0	217	100.0%	88.7%
Kidney-Pancreas	17	2,074	0	89	100.0%	95.7%

#### Pediatric (<18) Transplants

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

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

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed Patient Deaths MNMC-TX1 USA MNMC-TX1 USA		Estimated Patient Survival MNMC-TX1 USA			
Kidney-Heart	16	879	2	91	87.5%	89.6%
Kidney-Liver-Heart	1	19	0	5	100.0%	73.7%
Kidney-Liver	22	1,926	0	174	100.0%	91.0%
Kidney-Pancreas	17	2,074	0	62	100.0%	97.0%

#### 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.



REGISTRY OFCenter Code: MNMCTRANSPLANTTransplant Program (Organ): Kidney<br/>Release Date: January 9, 2024RECIPIENTSBased on Data Available: October 31, 2023

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## **D. Living Donor Information**

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

	This Center		United States			
Living Donor Follow-Up	07/2020- 06/2021	07/2021- 06/2022	07/2022- 12/2022	07/2020- 06/2021	07/2021- 06/2022	07/2022- 12/2022
Number of Living Donors	152	144	78	5,909	5,871	2,995
6-Month Follow-Up Donors due for follow-up	116	144	60	4,386	5,870	2,447
Timely clinical data	113 97.4%	138 95.8%	52 86.7%	3,853 87.8%	5,032 85.7%	1,989 81.3%
Timely lab data	100 86.2%	127 88.2%	50 83.3%	3,636 82.9%	4,796 81.7%	1,938 79.2%
12-Month Follow-Up Donors due for follow-up	152	131		5,904	5,299	
Timely clinical data	138 90.8%	120 91.6%		4,981 84.4%	4,124 77.8%	
Timely lab data	121 79.6%	109 83.2%		4,540 76.9%	3,956 74.7%	
24-Month Follow-Up Donors due for follow-up	136			5,315		
Timely clinical data	115 84.6%			3,850 72.4%		
Timely lab data	109 80.1%			3,569 67.1%		

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