



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 deceased donor organ yield. For transplant programs, they include pre-transplant mortality rates (formerly called waitlist mortality rates), transplant rates, organ offer acceptance rates, patient mortality after listing, and 1-month, 90-day, 1-year, 1-year conditional on 90-day, and 3-year posttransplant outcomes including graft survival and patient survival.

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021, July 2021, January 2022, July 2022, January 2023, July 2023, January 2024, July 2024 and January 2025. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the July 2025 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the July 2025 reporting cycle. These changes will remain in force beyond the July 2025 reporting cycle, unless otherwise amended:

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

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 1/1/2022-6/30/2024, follow-up through 12/31/2024.

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2021; follow-up through 12/31/2024.

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

Days after listing (and before transplant) between 1/1/2023 and 12/31/2024.



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

Candidates on the waitlist 1/1/2023-12/31/2024.

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

Evaluation period: 1/1/2023-12/31/2024.

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

Offers received 1/1/2024-12/31/2024.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 8, 2025. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for January 2026.

As with the January 2025 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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This report contains a wide range of useful information about the liver transplant program at University of Minnesota Medical Center, Fairview. 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 205.2 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at <http://www.srtr.org> for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2019 and 06/30/2024. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.1 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2024 to calculate a particular percentile of transplant times.

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



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of offers.

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

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

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

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

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

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



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A. Program Summary

Figure A1. Waiting list and transplant activity

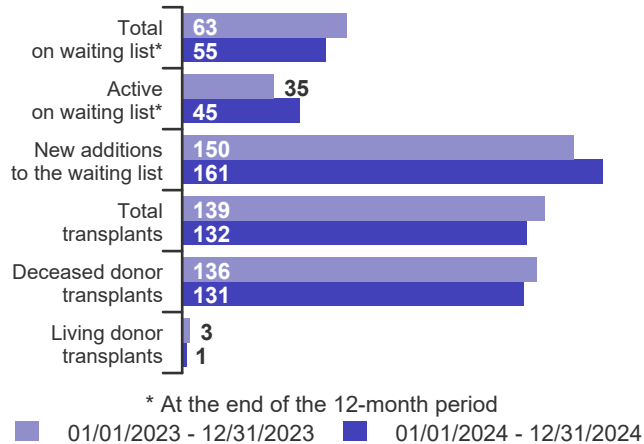


Table A1. Census of transplant recipients

Recipients	01/01/2023-12/31/2023	01/01/2024-12/31/2024
Transplanted at this center	139	132
Followed by this center*	1,042	1,162
...transplanted at this program	992	1,112
...transplanted elsewhere	50	50

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

Figure A2. Transplant rates
01/01/2023 - 12/31/2024

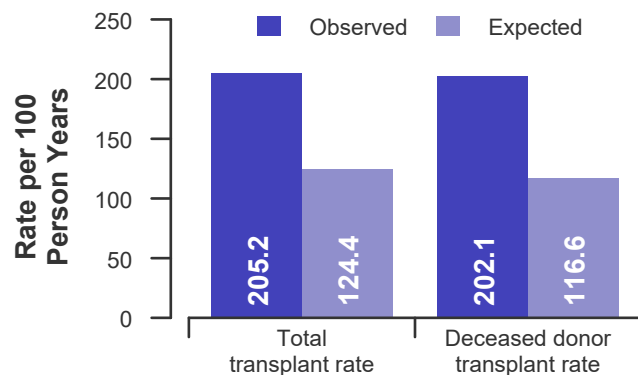


Figure A3. Pre-transplant mortality rates
01/01/2023 - 12/31/2024

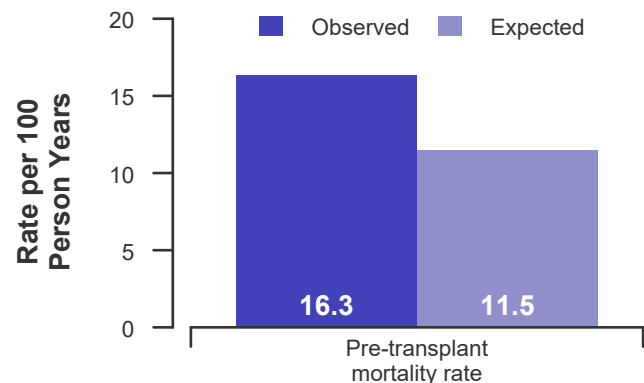


Figure A4. First-year adult graft and patient survival: 01/01/2022 - 06/30/2024

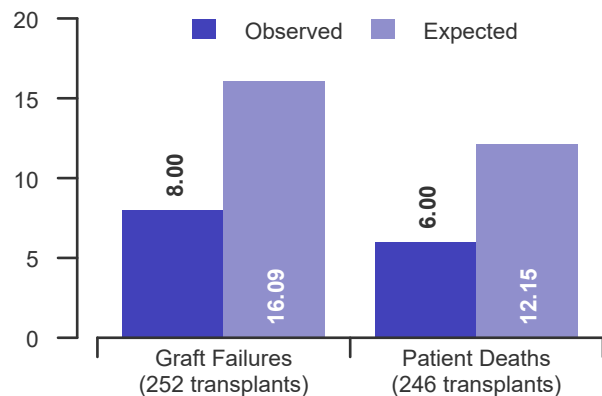
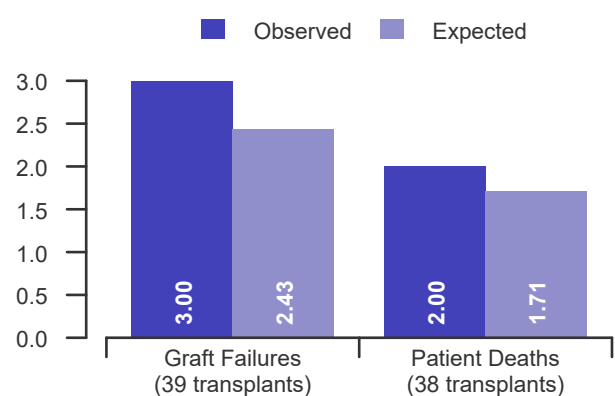


Figure A5. First-year pediatric graft and patient survival: 01/01/2022 - 06/30/2024





B. Waiting List Information

Table B1. Waiting list activity summary: 01/01/2023 - 12/31/2024

Waiting List Registrations	Counts for this center		Activity for 01/01/2024 to 12/31/2024 as percent of registrants on waiting list on 01/01/2024		
	01/01/2023- 12/31/2023	01/01/2024- 12/31/2024	This Center (%)	OPTN Region (%)	U.S. (%)
On waiting list at start	91	63	100.0	100.0	100.0
Additions					
New listings at this center	150	161	255.6	198.0	151.8
Removals					
Transferred to another center	0	0	0.0	1.5	1.6
Received living donor transplant*	3	1	1.6	8.3	6.0
Received deceased donor transplant*	136	131	207.9	142.7	107.0
Died	10	8	12.7	8.1	9.5
Transplanted at another center	0	2	3.2	3.0	2.4
Deteriorated	6	11	17.5	11.3	9.3
Recovered	17	9	14.3	14.7	11.4
Other reasons	6	7	11.1	9.1	10.6
On waiting list at end of period	63	55	87.3	99.2	94.1

* 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.



B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidates

Candidates registered on the waiting list between 01/01/2024 and 12/31/2024

Demographic Characteristic	New Waiting List Registrations 01/01/2024 to 12/31/2024 (%)			All Waiting List Registrations on 12/31/2024 (%)		
	This Center	OPTN Region	U.S.	This Center	OPTN Region	U.S.
	(N=161)	(N=1,172)	(N=15,399)	(N=55)	(N=587)	(N=9,551)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	69.6	68.7	64.3	70.9	71.2	62.8
African-American	6.2	6.1	6.8	10.9	6.1	7.1
Hispanic/Latino	6.2	15.0	19.7	7.3	15.5	21.7
Asian	7.5	2.9	4.1	9.1	2.9	5.1
Other	6.2	2.8	2.2	0.0	1.5	1.9
Unknown	4.3	4.5	3.0	1.8	2.7	1.5
Age (%)						
<2 years	3.1	1.8	2.0	1.8	1.9	1.5
2-11 years	2.5	1.3	1.6	1.8	1.5	1.5
12-17 years	3.1	1.5	1.3	0.0	1.2	1.4
18-34 years	9.3	7.7	7.1	9.1	7.3	6.8
35-49 years	23.6	26.2	23.6	23.6	24.4	21.1
50-64 years	40.4	42.2	43.2	40.0	42.1	46.7
65-69 years	14.3	14.6	15.3	16.4	16.0	15.8
70+ years	3.7	4.7	5.9	7.3	5.6	5.2
Gender (%)						
Male	54.0	60.9	58.0	54.5	59.8	58.6
Female	46.0	39.1	42.0	45.5	40.2	41.4

* 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%.



B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates

Candidates registered on the waiting list between 01/01/2024 and 12/31/2024

Medical Characteristic	New Waiting List Registrations 01/01/2024 to 12/31/2024 (%)			All Waiting List Registrations on 12/31/2024 (%)		
	This Center (N=161)	OPTN Region (N=1,172)	U.S. (N=15,399)	This Center (N=55)	OPTN Region (N=587)	U.S. (N=9,551)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
O	51.6	45.7	47.1	41.8	44.0	50.2
A	38.5	39.1	37.5	49.1	46.2	38.5
B	6.8	12.0	11.7	9.1	9.0	9.6
AB	3.1	3.2	3.6	0.0	0.9	1.6
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	4.3	4.9	4.6	9.1	4.8	4.1
No	95.7	95.1	95.4	90.9	95.2	95.9
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Acute Hepatic Necrosis	1.9	1.9	2.1	0.0	1.2	1.3
Non-Cholestatic Cirrhosis	23.0	22.1	23.9	21.8	29.5	36.4
Cholestatic Liver Disease/Cirrhosis	7.5	9.3	6.3	9.1	11.2	7.1
Biliary Atresia	3.7	2.2	2.0	3.6	2.7	2.0
Metabolic Diseases	3.1	1.6	2.1	0.0	0.5	1.4
Malignant Neoplasms	12.4	10.7	11.2	29.1	13.3	11.9
Other	48.4	52.2	52.3	36.4	41.6	39.8
Missing	0.0	0.0	0.2	0.0	0.0	0.2
Medical Urgency Status/MELD/PELD at Listing (%)*						
Status 1A	5.6	3.2	2.3	0.0	0.2	0.2
Status 1B	0.0	0.2	0.4	0.0	0.2	0.1
Status 2A	0.0	0.0	0.0	0.0	0.0	0.0
Status 2B	0.0	0.0	0.0	0.0	0.0	0.0
Status 3	0.0	0.0	0.0	0.0	0.2	0.1
MELD 6-10	6.8	11.6	11.6	18.2	17.7	22.3
MELD 11-14	8.7	11.9	12.0	14.5	18.9	21.5
MELD 15-20	19.9	21.7	21.7	34.5	36.5	29.8
MELD 21-30	33.5	25.8	24.6	23.6	15.8	15.0
MELD 31-40	15.5	14.1	13.5	0.0	0.9	1.1
PELD less than or equal to 10	3.1	1.4	1.5	3.6	2.6	2.1
PELD 11-14	0.6	0.4	0.3	0.0	0.2	0.2
PELD 15-20	0.6	0.3	0.4	0.0	0.0	0.2
PELD 21-30	0.6	0.2	0.3	0.0	0.2	0.2
PELD 31 or greater	0.0	0.1	0.1	0.0	0.0	0.0
Temporarily Inactive	1.9	4.0	6.7	5.5	6.6	7.0

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



B. Waiting List Information

Table B4. Transplant rates: 01/01/2023 - 12/31/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	91	212	579	10,969
Person Years**	132.1	341.8	1,028.4	20,254.4
Removals for Transplant	271	551	1,555	22,116
Adult (18+) Candidates				
Count on waiting list at start*	85	204	550	10,531
Person Years**	124.4	327.4	982.9	19,430.9
Removals for transplant	243	516	1,477	20,987
Pediatric (<18) Candidates				
Count on waiting list at start*	6	8	29	438
Person Years**	7.7	14.4	45.5	823.5
Removals for transplant	28	35	78	1,129

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

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

Figure B1. Observed and expected transplant rates: 01/01/2023 - 12/31/2024

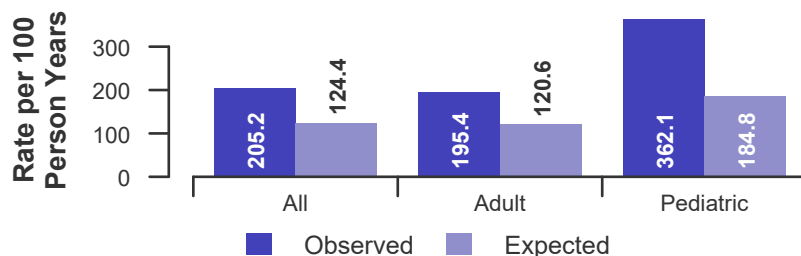


Figure B2. Transplant rate ratio estimate

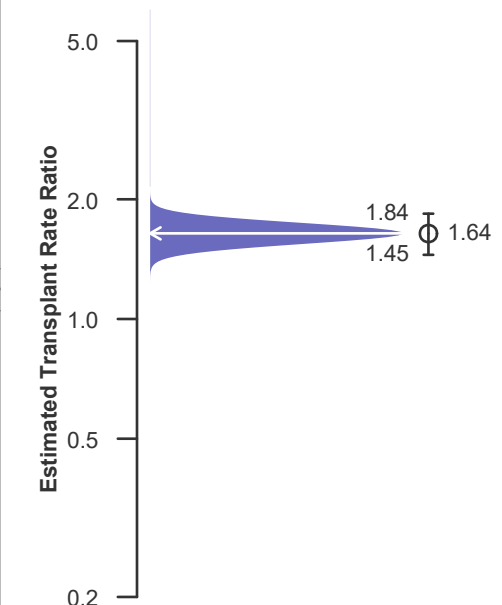
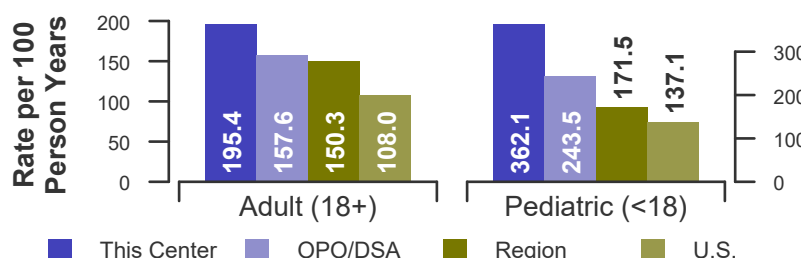


Figure B3. Observed adult (18+) and pediatric (<18) transplant rates: 01/01/2023 - 12/31/2024





B. Waiting List Information

Table B4D. Deceased donor transplant rates: 01/01/2023 - 12/31/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	91	212	579	10,969
Person Years**	132.1	341.8	1,028.4	20,254.4
Removals for Transplant	267	527	1,465	20,854
Adult (18+) Candidates				
Count on waiting list at start*	85	204	550	10,531
Person Years**	124.4	327.4	982.9	19,430.9
Removals for transplant	239	492	1,398	19,915
Pediatric (<18) Candidates				
Count on waiting list at start*	6	8	29	438
Person Years**	7.7	14.4	45.5	823.5
Removals for transplant	28	35	67	939

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

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

Figure B1D. Observed and expected deceased donor transplant rates: 01/01/2023 - 12/31/2024

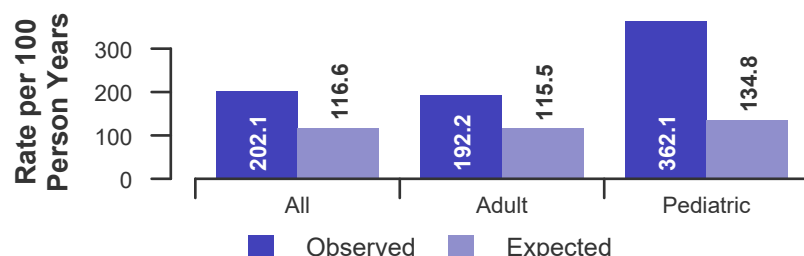


Figure B2D. Deceased donor transplant rate ratio estimate

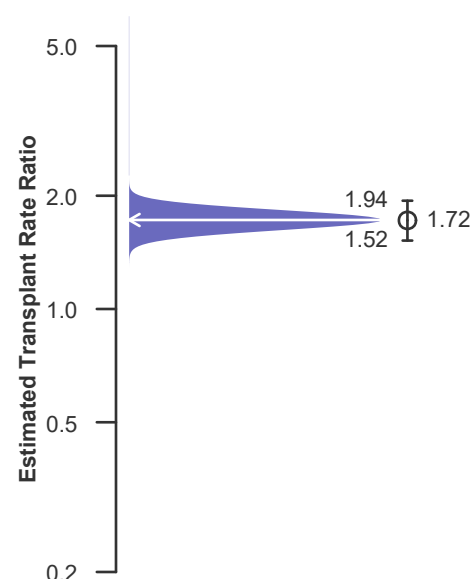
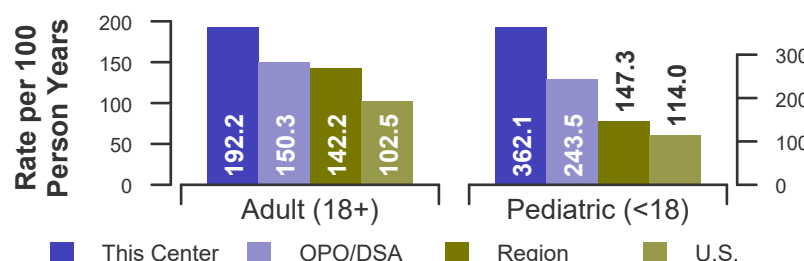


Figure B3D. Observed adult (18+) and pediatric (<18) deceased donor transplant rates: 01/01/2023 - 12/31/2024





B. Waiting List Information

Table B5. Pre-transplant mortality rates: 01/01/2023 - 12/31/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	91	212	579	10,969
Person Years**	159.3	426.5	1,271.3	23,901.6
Number of deaths	26	54	153	3,036
Adult (18+) Candidates				
Count on waiting list at start*	85	204	550	10,531
Person Years**	149.6	410.1	1,221.4	22,993.9
Number of deaths	25	53	148	2,984
Pediatric (<18) Candidates				
Count on waiting list at start*	6	8	29	438
Person Years**	9.7	16.4	49.8	907.6
Number of deaths	1	1	5	52

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

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

Figure B4. Observed and expected pre-transplant mortality rates: 01/01/2023 - 12/31/2024

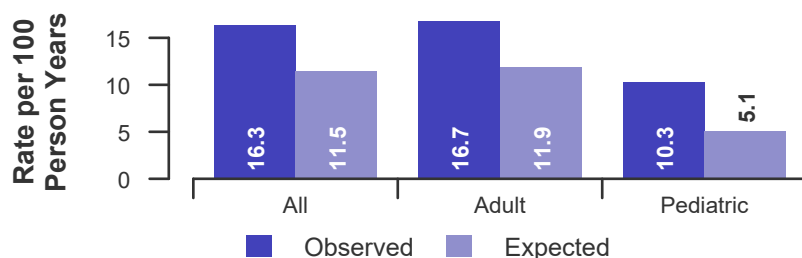


Figure B6. Observed adult (18+) and pediatric (<18) pre-transplant mortality rates: 01/01/2023 - 12/31/2024

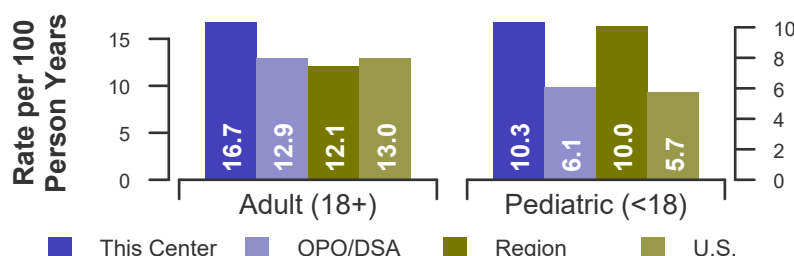
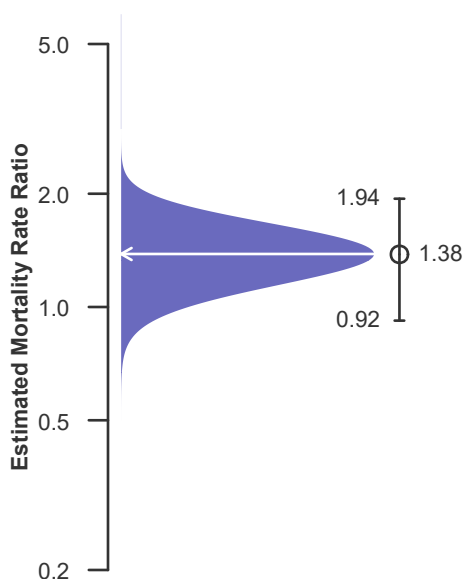


Figure B5. Pre-transplant mortality rate ratio estimate





B. Waiting List Information

Table B6. Rates of patient mortality after listing: 01/01/2023 - 12/31/2024

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	825	1,964	6,570	82,628
Person-years*	1,104.7	2,657.5	8,898.3	110,663.0
Number of Deaths	53	113	429	6,422
Adult (18+) Patients				
Count at risk during the evaluation period	738	1,843	6,260	78,223
Person-years*	981.3	2,492.6	8,469.9	104,641.8
Number of Deaths	51	110	417	6,298
Pediatric (<18) Patients				
Count at risk during the evaluation period	87	121	310	4,405
Person-years*	123.4	164.9	428.3	6,021.2
Number of Deaths	2	3	12	124

* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2023, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 2024.

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

Figure B7. Observed and expected rates of patient mortality after listing: 01/01/2023 - 12/31/2024

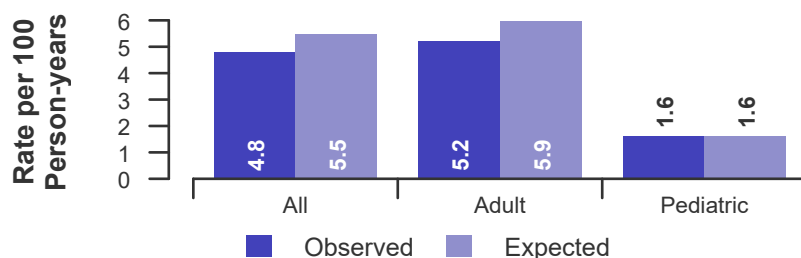


Figure B8. HR estimate of patient mortality after listing

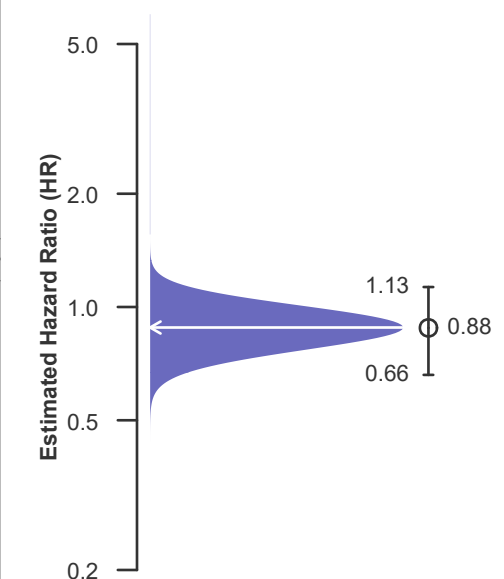
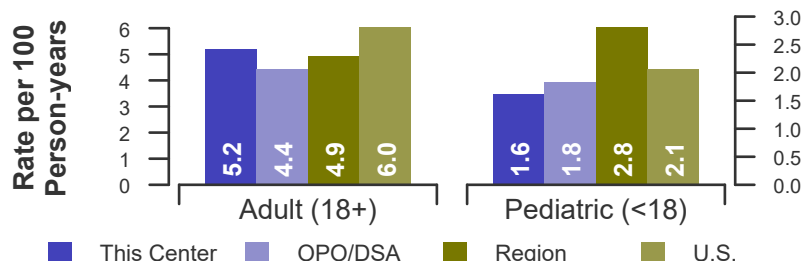


Figure B9. Observed adult (18+) and pediatric (<18) rates of patient mortality after listing: 01/01/2023 - 12/31/2024





B. Waiting List Information

Table B7. Waiting list candidate status after listing

Candidates registered on waiting list between 07/01/2022 and 06/30/2023

Waiting list status (survival status)	This Center (N=143)			U.S. (N=13,953)		
	Months Since Listing			Months Since Listing		
	6	12	18	6	12	18
Alive on waiting list (%)	18.9	9.8	5.6	34.7	18.4	11.5
Died on the waiting list without transplant (%)	2.1	2.1	2.1	3.6	4.5	5.0
Removed without transplant (%):						
Condition worsened (status unknown)	1.4	2.1	2.1	3.3	4.7	5.4
Condition improved (status unknown)	1.4	2.1	4.2	1.5	2.6	3.7
Refused transplant (status unknown)	0.0	0.7	0.7	0.2	0.4	0.6
Other	0.0	0.0	0.0	1.6	3.1	3.9
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.7	0.7	0.0	3.1	3.8	2.5
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.1	0.1	0.1
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.1	0.1	0.2
Status Yet Unknown**	0.0	0.0	0.7	0.0	0.2	1.6
Transplant (deceased donor) (%):						
Functioning (alive)	74.8	79.0	51.0	47.9	52.7	36.5
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.3	0.5	0.7
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.1	0.0
Died	0.7	2.1	3.5	1.9	3.1	3.9
Status Yet Unknown*	0.0	1.4	30.1	1.4	5.2	23.6
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.3	0.6	0.7
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	2.8	4.2	5.6	5.6	7.7	9.1
Total % known died or removed as unstable	4.2	6.3	7.7	8.9	12.4	14.5
Total % removed for transplant	76.2	83.2	85.3	54.8	65.8	69.2
Total % with known functioning transplant (alive)	75.5	79.7	51.0	51.0	56.5	39.0

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



B. Waiting List Information

Table B7S1. Medical urgency status 1 candidate status after listing**Candidates registered on the waiting list between 07/01/2022 and 06/30/2023**

Waiting list status (survival status)	This Center (N=2)			U.S. (N=424)		
	Months Since listing			Months Since listing		
	6	12	18	6	12	18
Alive on waiting list (%)	0.0	0.0	0.0	1.9	0.5	0.2
Died on the waiting list without transplant (%)	0.0	0.0	0.0	5.9	5.9	5.9
Removed without transplant (%):						
Condition worsened (status unknown)	50.0	50.0	50.0	5.9	5.9	5.9
Condition improved (status unknown)	0.0	0.0	0.0	19.8	21.0	21.2
Refused transplant (status unknown)	0.0	0.0	0.0	0.7	0.7	0.7
Other	0.0	0.0	0.0	0.9	0.9	0.9
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	1.9	1.7	1.7
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	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.2	0.2	0.2
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.2	0.2
Transplant (deceased donor) (%):						
Functioning (alive)	50.0	50.0	50.0	55.4	48.1	33.5
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.7	0.7	0.7
Failed-alive not retransplanted	0.0	0.0	0.0	0.5	0.0	0.0
Died	0.0	0.0	0.0	4.7	6.4	6.6
Status Yet Unknown*	0.0	0.0	0.0	0.9	7.3	21.7
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.5	0.5	0.5
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	0.0	0.0	10.8	12.5	12.7
Total % known died or removed as unstable	50.0	50.0	50.0	16.7	18.4	18.6
Total % removed for transplant	50.0	50.0	50.0	64.4	64.6	64.6
Total % with known functioning transplant (alive)	50.0	50.0	50.0	57.3	49.8	35.1

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



B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics
Candidates registered on the waiting list between 01/01/2019 and 12/31/2021

Characteristic	Percent transplanted at time periods since listing									
	This Center					United States				
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	362	31.5	63.0	68.8	69.6	39,435	28.1	55.4	60.7	62.5
Ethnicity/Race*										
White	290	32.8	65.2	71.7	72.4	27,120	28.6	56.2	61.1	62.8
African-American	25	32.0	64.0	64.0	64.0	2,991	31.2	58.3	63.6	65.3
Hispanic/Latino	13	30.8	53.8	53.8	53.8	6,915	25.1	51.6	57.9	59.8
Asian	28	21.4	46.4	50.0	53.6	1,727	25.5	51.8	60.1	62.5
Other	6	16.7	50.0	66.7	66.7	682	32.1	55.9	60.6	62.9
Unknown	0	--	--	--	--	0	--	--	--	--
Age										
<2 years	18	44.4	100.0	100.0	100.0	786	24.6	72.5	75.2	76.2
2-11 years	12	25.0	66.7	75.0	75.0	583	28.1	68.3	72.9	75.0
12-17 years	5	40.0	60.0	60.0	60.0	471	22.5	58.6	64.8	65.8
18-34 years	25	36.0	68.0	68.0	68.0	2,551	39.8	59.5	63.3	64.6
35-49 years	88	47.7	67.0	72.7	72.7	7,702	40.0	61.1	65.0	66.5
50-64 years	163	25.8	58.9	65.0	66.9	18,714	26.3	54.1	59.8	61.8
65-69 years	44	18.2	50.0	59.1	59.1	6,481	18.8	49.8	56.6	58.4
70+ years	7	0.0	71.4	85.7	85.7	2,147	18.7	47.7	53.3	54.4
Gender										
Male	213	32.4	65.7	72.3	73.2	24,429	28.2	56.4	61.9	63.6
Female	149	30.2	59.1	63.8	64.4	15,006	28.0	53.6	58.8	60.6

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



B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics
Candidates registered on the waiting list between 01/01/2019 and 12/31/2021

Characteristic	N	Percent transplanted at time periods since listing									
		This Center					United States				
		30 day	1 year	2 years	3 years		30 day	1 year	2 years	3 years	
All	362	31.5	63.0	68.8	69.6	39,435	28.1	55.4	60.7	62.5	
Blood Type											
O	144	35.4	60.4	66.0	66.7	18,455	26.9	53.1	58.6	60.5	
A	153	30.1	62.7	69.9	69.9	14,634	27.3	53.6	59.2	61.0	
B	41	19.5	58.5	63.4	68.3	4,801	31.1	63.1	67.9	69.4	
AB	24	37.5	87.5	87.5	87.5	1,545	41.4	75.2	77.7	78.4	
Previous Transplant											
Yes	14	21.4	35.7	42.9	42.9	1,878	33.5	56.7	60.9	62.2	
No	348	31.9	64.1	69.8	70.7	37,557	27.9	55.3	60.7	62.5	
Primary Disease											
Acute Hepatic Necrosis	15	60.0	73.3	73.3	73.3	2,013	58.7	67.5	68.7	69.2	
Non-Cholestatic Cirrhosis	203	37.4	62.6	66.5	67.0	26,232	29.8	55.3	59.9	61.6	
Cholestatic Liver Disease/Cirrhosis	33	27.3	60.6	63.6	66.7	2,575	23.1	53.2	61.1	63.3	
Biliary Atresia	16	25.0	87.5	93.8	93.8	660	15.5	67.0	71.4	73.0	
Metabolic Diseases	11	45.5	100.0	100.0	100.0	796	29.5	69.2	75.0	76.1	
Malignant Neoplasms	67	7.5	52.2	67.2	68.7	4,640	8.8	47.4	56.5	58.9	
Other	17	35.3	58.8	64.7	64.7	2,505	29.9	56.6	62.6	64.9	
Missing	0	--	--	--	--	14	21.4	21.4	28.6	28.6	
Medical Urgency Status/MELD/PELD at Listing*											
Status 1	0	--	--	--	--	0	--	--	--	--	
Status 1A	13	53.8	53.8	53.8	53.8	1,162	61.9	62.0	62.2	62.2	
Status 1B	3	100.0	100.0	100.0	100.0	145	56.6	86.9	86.9	86.9	
Status 2A	0	--	--	--	--	0	--	--	--	--	
Status 2B	0	--	--	--	--	0	--	--	--	--	
Status 3	0	--	--	--	--	0	--	--	--	--	
MELD 6-10	45	6.7	53.3	75.6	75.6	6,558	3.1	35.6	46.0	49.2	
MELD 11-14	27	3.7	51.9	59.3	63.0	4,792	3.8	34.7	44.5	47.7	
MELD 15-20	73	5.5	46.6	52.1	53.4	8,155	11.7	47.5	54.0	56.4	
MELD 21-30	94	31.9	63.8	68.1	68.1	9,476	36.8	67.0	69.8	70.7	
MELD 31-40	66	80.3	86.4	86.4	86.4	5,034	78.3	83.8	83.9	83.9	
PELD less than or equal to 10	12	8.3	83.3	91.7	91.7	577	11.8	70.5	76.9	79.7	
PELD 11-14	1	0.0	100.0	100.0	100.0	101	18.8	81.2	84.2	86.1	
PELD 15-20	1	0.0	100.0	100.0	100.0	147	19.0	77.6	78.9	79.6	
PELD 21-30	5	40.0	100.0	100.0	100.0	117	24.8	74.4	76.1	76.1	
PELD 31 or greater	0	--	--	--	--	51	49.0	68.6	68.6	68.6	
Temporarily Inactive	22	45.5	54.5	54.5	59.1	3,120	43.3	58.3	61.6	62.8	

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



B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 01/01/2019 and 06/30/2024

Percentile	Center	Months to Transplant**		U.S.
		OPO/DSA	Region	
5th	0.1	0.1	0.1	0.1
10th	0.1	0.2	0.1	0.2
25th	0.4	0.7	0.5	0.6
50th (median time to transplant)	2.4	4.3	4.4	5.1
75th	13.7	20.7	Not Observed	Not Observed

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

** Censored on 12/31/2024. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



B. Waiting List Information

Table B11. Offer Acceptance Practices: 01/01/2024 - 12/31/2024

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	1,209	3,727	22,507	293,114
Number of Acceptances	122	231	745	9,682
Expected Acceptances	74.1	147.8	813.8	9,681.1
Offer Acceptance Ratio*	1.63	1.55	0.92	1.00
95% Credible Interval**	[1.35, 1.93]	--	--	--
PHS increased infectious risk				
Number of Offers	171	544	3,393	42,477
Number of Acceptances	20	35	128	1,582
Expected Acceptances	13.2	24.4	133.5	1,581.6
Offer Acceptance Ratio*	1.45	1.40	0.96	1.00
95% Credible Interval**	[0.91, 2.11]	--	--	--
DCD donor				
Number of Offers	412	1,789	13,143	159,874
Number of Acceptances	23	59	186	2,778
Expected Acceptances	17.7	42.5	280.1	2,779.4
Offer Acceptance Ratio*	1.27	1.37	0.67	1.00
95% Credible Interval**	[0.82, 1.81]	--	--	--
HCV+ donor				
Number of Offers	19	132	1,175	8,439
Number of Acceptances	1	2	16	306
Expected Acceptances	0.4	2.4	30.3	307.2
Offer Acceptance Ratio*	1.25	0.90	0.56	1.00
95% Credible Interval**	[0.26, 3.00]	--	--	--
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	416	1,881	12,303	167,977
Number of Acceptances	8	26	59	1,176
Expected Acceptances	5.0	13.6	128.4	1,382.1
Offer Acceptance Ratio*	1.43	1.80	0.47	0.85
95% Credible Interval**	[0.69, 2.44]	--	--	--
Donor more than 500 miles away				
Number of Offers	305	1,036	5,266	76,452
Number of Acceptances	20	32	69	1,149
Expected Acceptances	11.1	18.9	71.9	1,071.0
Offer Acceptance Ratio*	1.68	1.63	0.96	1.07
95% Credible Interval**	[1.05, 2.45]	--	--	--

* The offer acceptance ratio estimates the relative offer acceptance practice of University of Minnesota Medical Center, Fairview compared to the national offer acceptance practice. A ratio above one indicates the program accepts more offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a center accepts 25% more offers than is expected based on national offer acceptance practices), while a ratio below one indicates the program accepts fewer offers compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a center accepts 25% fewer offers than is expected based on national offer acceptance practices).

** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.35, 1.93], indicates the location of MNUM's true offer acceptance ratio with 95% probability. The best estimate is 63% more likely to accept an offer compared to national acceptance behavior, but MNUM's performance could plausibly range from 35% higher acceptance up to 93% higher acceptance.



B. Waiting List Information

Figure B10. Offer acceptance: Overall

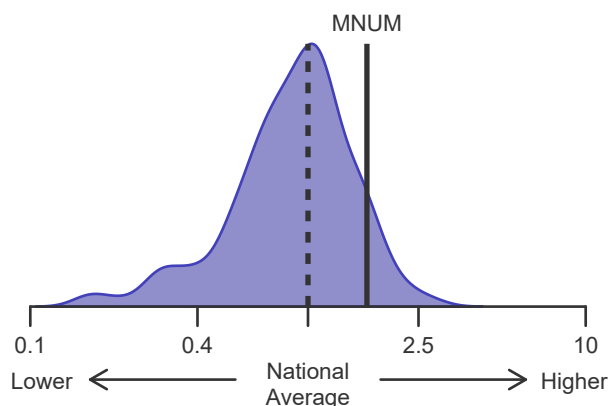


Figure B11. Offer acceptance: PHS increased infectious risk

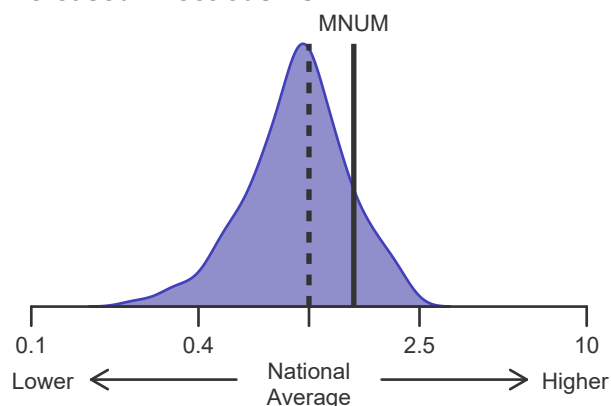


Figure B12. Offer acceptance: DCD Donor

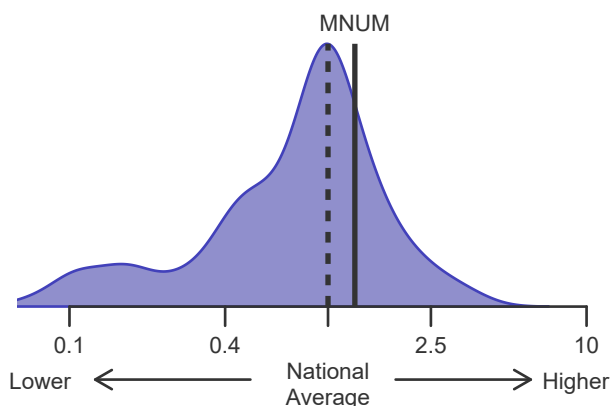


Figure B13. Offer acceptance: HCV+ Donor

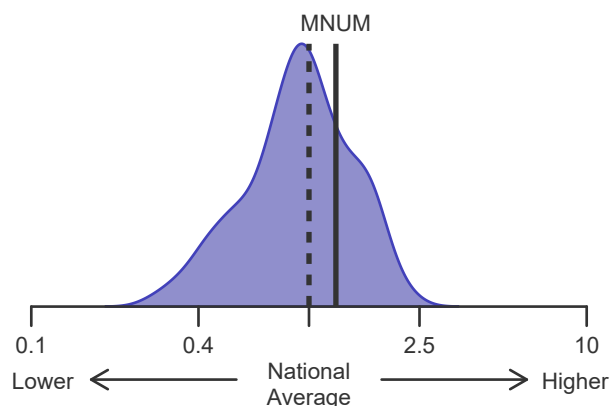


Figure B14. Offer acceptance: Offer number > 50

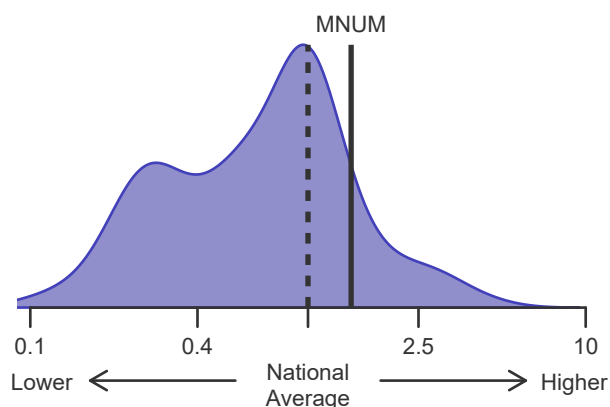
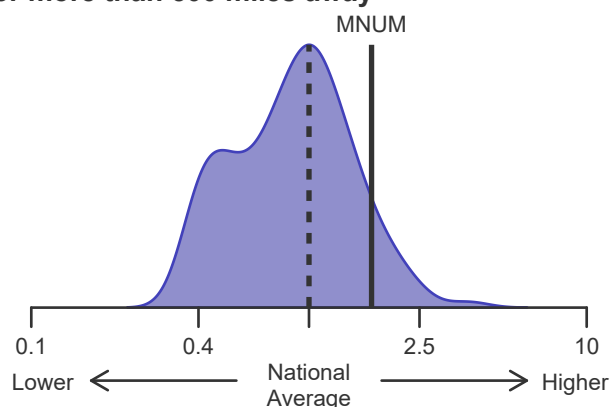


Figure B15. Offer acceptance: Donor more than 500 miles away





C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics

Patients transplanted between 01/01/2024 and 12/31/2024

Characteristic	Percentage in each category		
	Center (N=131)	Region (N=845)	U.S. (N=10,854)
Ethnicity/Race (%)*			
White	70.2	68.8	65.5
African-American	6.1	6.3	6.6
Hispanic/Latino	6.1	15.3	18.9
Asian	6.9	3.6	4.0
Other	6.1	3.0	2.4
Unknown	4.6	3.2	2.5
Age (%)			
<2 years	3.1	1.3	1.5
2-11 years	2.3	0.9	1.7
12-17	3.1	1.4	1.1
18-34	7.6	7.6	6.8
35-49 years	23.7	24.7	23.4
50-64 years	44.3	44.3	43.7
65-69 years	13.0	14.6	15.3
70+ years	3.1	5.2	6.5
Gender (%)			
Male	54.2	63.2	59.7
Female	45.8	36.8	40.3

* 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%.



C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics

Patients transplanted between 01/01/2024 and 12/31/2024

Characteristic	Percentage in each category		
	Center (N=1)	Region (N=49)	U.S. (N=604)
Ethnicity/Race (%)*			
White	100.0	73.5	71.2
African-American	0.0	10.2	5.5
Hispanic/Latino	0.0	6.1	17.2
Asian	0.0	2.0	3.1
Other	0.0	0.0	0.7
Unknown	0.0	8.2	2.3
Age (%)			
<2 years	0.0	12.2	11.6
2-11 years	0.0	0.0	5.5
12-17	0.0	0.0	1.3
18-34	0.0	8.2	8.3
35-49 years	0.0	20.4	20.9
50-64 years	0.0	38.8	33.8
65-69 years	100.0	10.2	13.7
70+ years	0.0	10.2	5.0
Gender (%)			
Male	0.0	38.8	43.0
Female	100.0	61.2	57.0

* 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%.



C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics
Patients transplanted between 01/01/2024 and 12/31/2024

Characteristic	Percentage in each category		
	Center (N=131)	Region (N=845)	U.S. (N=10,854)
Blood Type (%)			
O	49.6	45.7	46.4
A	38.2	37.8	37.0
B	8.4	12.7	12.4
AB	3.8	3.9	4.2
Previous Transplant (%)			
Yes	2.3	4.6	4.3
No	97.7	95.4	95.7
Body Mass Index (%)			
0-20	12.2	8.5	10.2
21-25	24.4	25.0	25.4
26-30	28.2	32.1	30.2
31-35	17.6	20.0	19.1
36-40	6.1	8.2	9.0
41+	6.1	5.4	4.5
Unknown	5.3	0.8	1.5
Primary Disease (%)			
Acute Hepatic Necrosis	2.3	1.5	1.9
Non-Cholestatic Cirrhosis	26.7	23.9	23.8
Cholestatic Liver Disease/Cirrhosis	5.3	8.6	6.4
Biliary Atresia	3.1	1.3	1.6
Metabolic Diseases	3.1	2.2	2.3
Malignant Neoplasms	13.0	10.8	11.8
Other	46.6	51.6	52.0
Missing	0.0	0.0	0.1
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	5.3	3.2	2.4
Status 1B	0.8	0.7	1.1
MELD 6-10	7.6	8.9	9.1
MELD 11-14	6.9	7.1	8.3
MELD 15-20	16.0	16.8	19.6
MELD 21-30	34.4	32.7	30.0
MELD 31-40	19.8	21.4	20.8
PELD less than or equal to 10	2.3	0.6	0.8
PELD 11-14	0.8	0.4	0.3
PELD 15-20	0.8	0.1	0.4
PELD 21-30	0.8	0.2	0.3
PELD 31 or greater	0.0	0.0	0.1
Temporarily Inactive	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	51.9	60.8	59.6
Hospitalized	41.2	24.5	24.9
ICU	6.9	14.7	15.5
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics
Patients transplanted between 01/01/2024 and 12/31/2024

Characteristic	Percentage in each category		
	Center (N=1)	Region (N=49)	U.S. (N=604)
Blood Type (%)			
O	100.0	38.8	44.4
A	0.0	44.9	43.4
B	0.0	16.3	9.9
AB	0.0	0.0	2.3
Previous Transplant (%)			
Yes	0.0	0.0	1.2
No	100.0	100.0	98.8
Body Mass Index (%)			
0-20	0.0	24.5	24.7
21-25	100.0	26.5	29.0
26-30	0.0	26.5	26.8
31-35	0.0	12.2	12.3
36-40	0.0	8.2	5.6
41+	0.0	2.0	1.3
Unknown	0.0	0.0	0.3
Primary Disease (%)			
Acute Hepatic Necrosis	0.0	0.0	0.5
Non-Cholestatic Cirrhosis	0.0	14.3	23.8
Cholestatic Liver Disease/Cirrhosis	100.0	26.5	18.2
Biliary Atresia	0.0	12.2	11.4
Metabolic Diseases	0.0	0.0	3.3
Malignant Neoplasms	0.0	16.3	11.1
Other	0.0	30.6	31.5
Missing	0.0	0.0	0.2
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	0.0	0.0	0.5
Status 1B	0.0	0.0	1.8
MELD 6-10	100.0	18.4	19.7
MELD 11-14	0.0	26.5	18.9
MELD 15-20	0.0	32.7	25.2
MELD 21-30	0.0	10.2	15.1
MELD 31-40	0.0	0.0	0.8
PELD less than or equal to 10	0.0	6.1	6.3
PELD 11-14	0.0	0.0	2.5
PELD 15-20	0.0	2.0	2.6
PELD 21-30	0.0	0.0	2.0
PELD 31 or greater	0.0	4.1	1.2
Temporarily Inactive	0.0	0.0	3.5
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	100.0	91.8	86.6
Hospitalized	0.0	4.1	9.1
ICU	0.0	4.1	4.3
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C3D. Deceased donor characteristics

Transplants performed between 01/01/2024 and 12/31/2024

Donor Characteristic	Percentage in each category		
	Center (N=131)	Region (N=845)	U.S. (N=10,854)
Cause of Death (%)			
Deceased: Stroke	23.7	23.0	27.6
Deceased: MVA	13.7	10.9	10.5
Deceased: Other	62.6	66.2	61.9
Ethnicity/Race (%)*			
White	78.6	72.0	62.7
African-American	15.3	17.8	17.6
Hispanic/Latino	4.6	7.6	14.8
Asian	1.5	1.9	2.9
Other	0.0	0.6	1.2
Not Reported	0.0	0.2	0.8
Age (%)			
<2 years	1.5	0.2	0.6
2-11 years	3.8	1.8	1.8
12-17	3.8	3.0	3.7
18-34	26.0	25.7	23.1
35-49 years	25.2	30.8	28.4
50-64 years	31.3	30.4	31.3
65-69 years	6.1	4.4	6.5
70+ years	2.3	3.8	4.6
Gender (%)			
Male	69.5	61.9	60.9
Female	30.5	38.1	39.1
Blood Type (%)			
O	55.0	49.6	50.4
A	35.1	37.4	36.7
B	6.9	10.9	10.6
AB	3.1	2.1	2.3
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%.



C. Transplant Information

Table C3L. Living donor characteristics

Transplants performed between 01/01/2024 and 12/31/2024

Donor Characteristic	Percentage in each category		
	Center (N=1)	Region (N=49)	U.S. (N=604)
Ethnicity/Race (%)*			
White	100.0	81.6	75.8
African-American	0.0	6.1	3.6
Hispanic/Latino	0.0	6.1	13.9
Asian	0.0	2.0	2.6
Other	0.0	0.0	1.7
Not Reported	0.0	4.1	2.3
Age (%)			
0-11 years	0.0	2.0	0.5
12-17	0.0	0.0	0.0
18-34	100.0	38.8	38.1
35-49 years	0.0	42.9	46.0
50-64 years	0.0	16.3	15.2
65-69 years	0.0	0.0	0.2
70+ years	0.0	0.0	0.0
Gender (%)			
Male	0.0	51.0	43.0
Female	100.0	49.0	57.0
Blood Type (%)			
O	100.0	57.1	64.1
A	0.0	32.7	29.0
B	0.0	10.2	6.5
AB	0.0	0.0	0.5
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%.



C. Transplant Information

Table C4D. Deceased donor transplant characteristics
Transplants performed between 01/01/2024 and 12/31/2024

Transplant Characteristic	Percentage in each category		
	Center (N=131)	Region (N=845)	U.S. (N=10,854)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-5 hr	40.3	40.3	42.4
Deceased: 6-10 hr	32.8	29.8	21.9
Deceased: 11-15 hr	9.0	11.9	13.1
Deceased: 16-20 hr	11.9	13.6	14.4
Deceased: 21+ hr	4.5	4.1	7.8
Not Reported	1.5	0.3	0.5
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-5 hr	18.8	30.9	25.7
Deceased: 6-10 hr	57.8	44.0	34.2
Deceased: 11-15 hr	12.5	12.0	13.9
Deceased: 16-20 hr	4.7	9.3	15.2
Deceased: 21+ hr	6.2	3.8	10.2
Not Reported	0.0	0.0	0.8
Procedure Type (%)			
Single organ	94.7	90.5	91.4
Multi organ	5.3	9.5	8.6
Donor Location (%)			
Local Donation Service Area (DSA)	51.1	34.9	36.7
Another Donation Service Area (DSA)	48.9	65.1	63.3
Median Time in Hospital After Transplant	10.0 Days	10.0 Days	10.0 Days



C. Transplant Information

Table C4L. Living donor transplant characteristics
Transplants performed between 01/01/2024 and 12/31/2024

Transplant Characteristic	Percentage in each category		
	Center (N=1)	Region (N=49)	U.S. (N=604)
Relation with Donor (%)			
Related	100.0	61.2	48.3
Unrelated	0.0	38.8	51.5
Not Reported	0.0	0.0	0.2
Procedure Type (%)			
Single organ	100.0	100.0	100.0
Multi organ	0.0	0.0	0.0
Median Time in Hospital After Transplant	9.0 Days	9.0 Days	10.0 Days



C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	252	22,329
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.41% [96.88%-99.97%]	97.28% [97.07%-97.50%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.72%	--
Number of observed graft failures (including deaths) during the first month after transplant	4	607
Number of expected graft failures (including deaths) during the first month after transplant	5.79	--
Estimated hazard ratio*	0.77	--
95% credible interval for the hazard ratio**	[0.28, 1.50]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.28, 1.50], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 23% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 72% reduced risk up to 50% increased risk.

Figure C1. Adult (18+) 1-month graft failure HR estimate

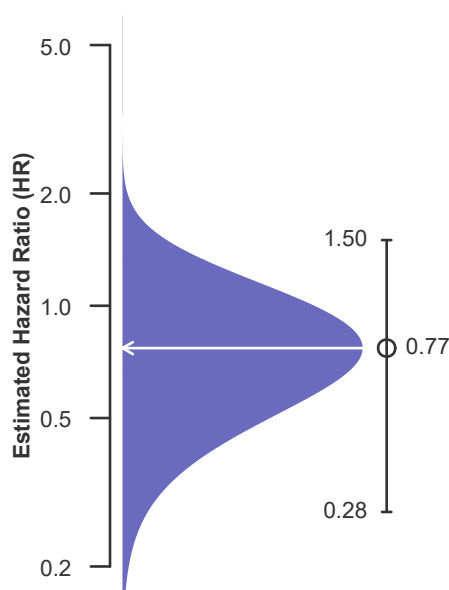
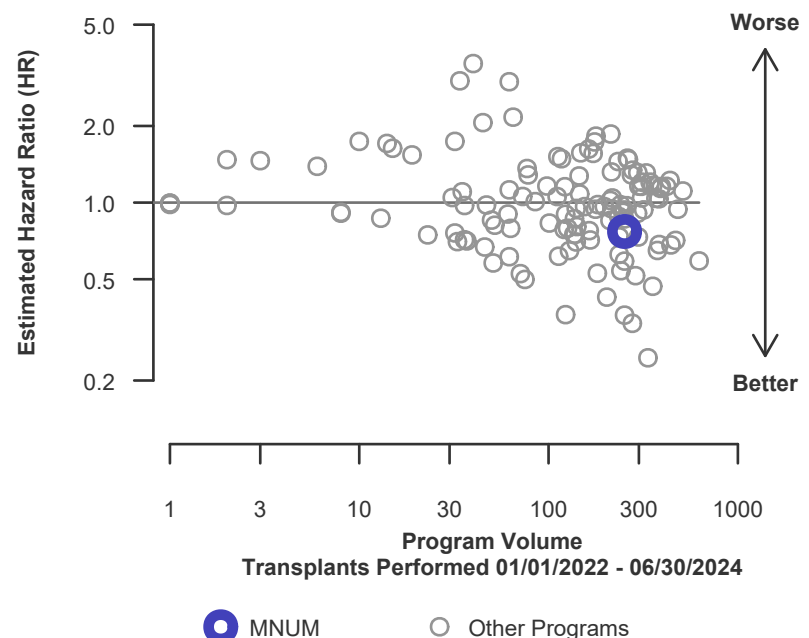


Figure C2. Adult (18+) 1-month graft failure HR program comparison





C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	248	20,988
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	98.39% [96.83%-99.97%]	97.32% [97.10%-97.54%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.74%	--
Number of observed graft failures (including deaths) during the first month after transplant	4	562
Number of expected graft failures (including deaths) during the first month after transplant	5.66	--
Estimated hazard ratio*	0.78	--
95% credible interval for the hazard ratio**	[0.29, 1.52]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.29, 1.52], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 22% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 71% reduced risk up to 52% increased risk.

Figure C1D. Adult (18+) 1-month deceased donor graft failure HR estimate

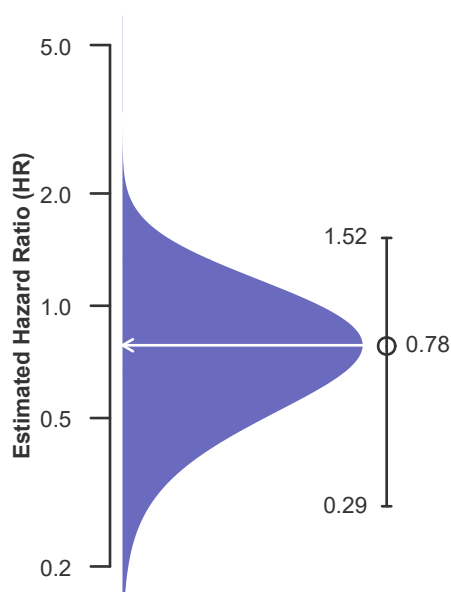
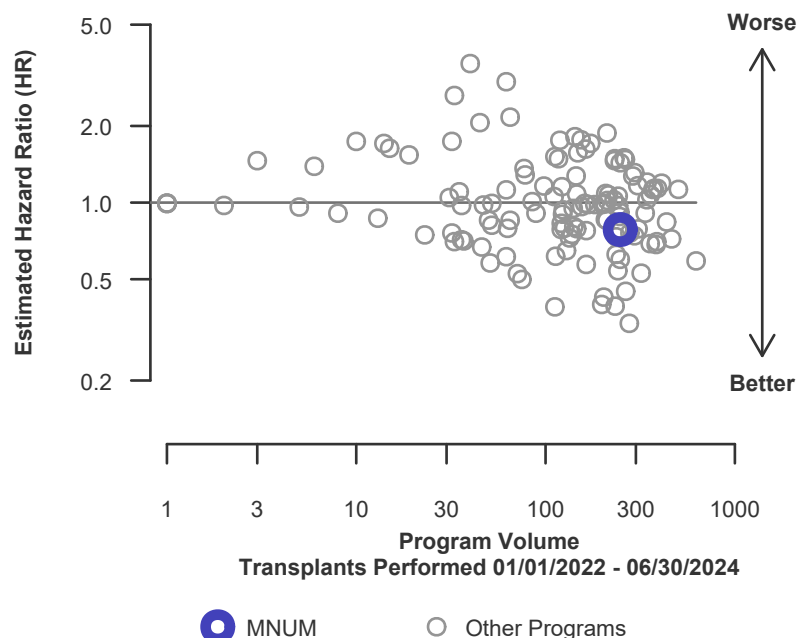


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	4	1,341
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%]	96.64% [95.69%-97.61%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.65%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	45
Number of expected graft failures (including deaths) during the first month 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 University of Minnesota Medical Center, Fairview'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 MNUM'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 MNUM's true hazard ratio with 95% probability. The best estimate is 6% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 89% reduced risk up to 161% increased risk.

Figure C1L. Adult (18+) 1-month living donor graft failure HR estimate

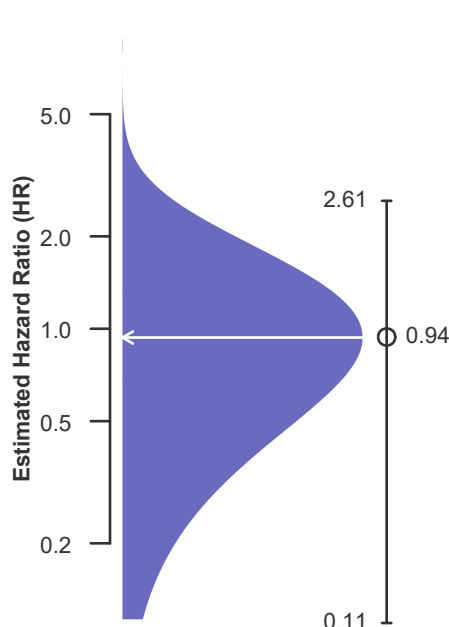
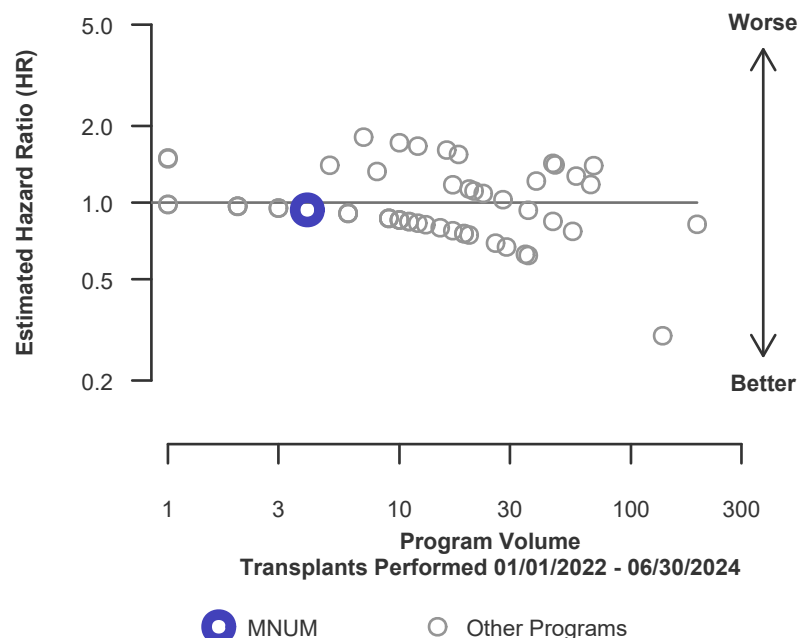


Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison





C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	252	22,329
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	98.41% [96.88%-99.97%]	95.53% [95.26%-95.81%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.17%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	4	997
Number of expected graft failures (including deaths) during the first 90 days after transplant	9.77	--
Estimated hazard ratio*	0.51	--
95% credible interval for the hazard ratio**	[0.19, 0.99]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.19, 0.99], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 49% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 81% reduced risk up to 1% reduced risk.

Figure C3. Adult (18+) 90-Day graft failure HR estimate

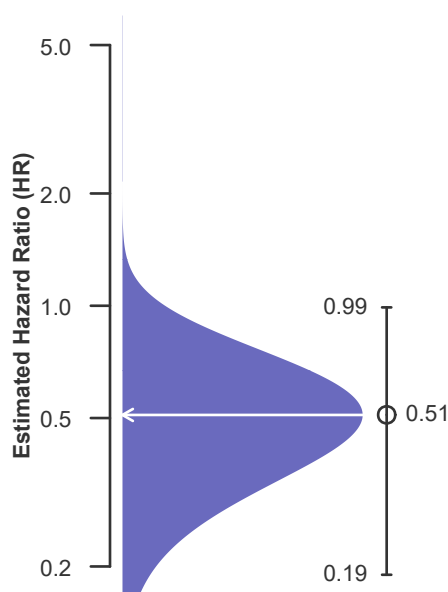
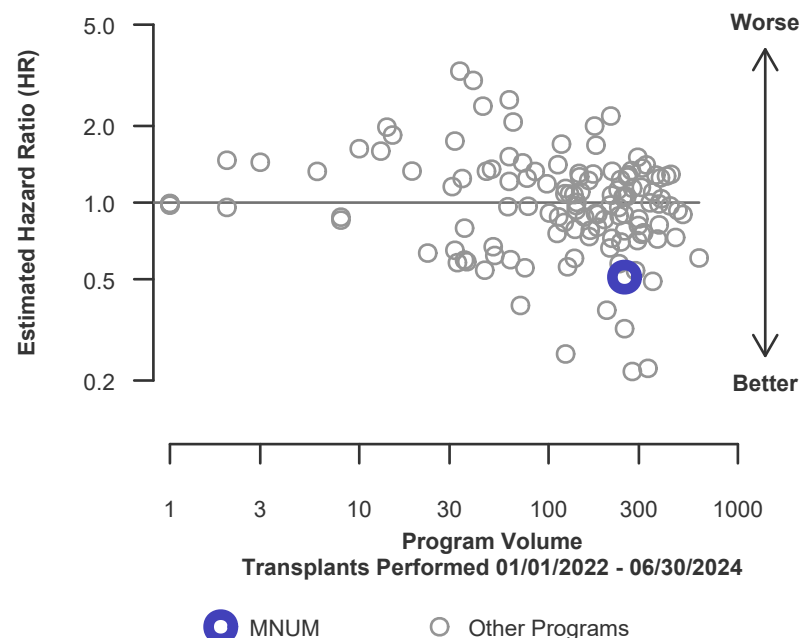


Figure C4. Adult (18+) 90-Day graft failure HR program comparison





C. Transplant Information

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	248	20,988
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	98.39% [96.83%-99.97%]	95.55% [95.27%-95.82%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	96.19%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	4	935
Number of expected graft failures (including deaths) during the first 90 days after transplant	9.58	--
Estimated hazard ratio*	0.52	--
95% credible interval for the hazard ratio**	[0.19, 1.01]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.19, 1.01], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 48% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 81% reduced risk up to 1% increased risk.

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

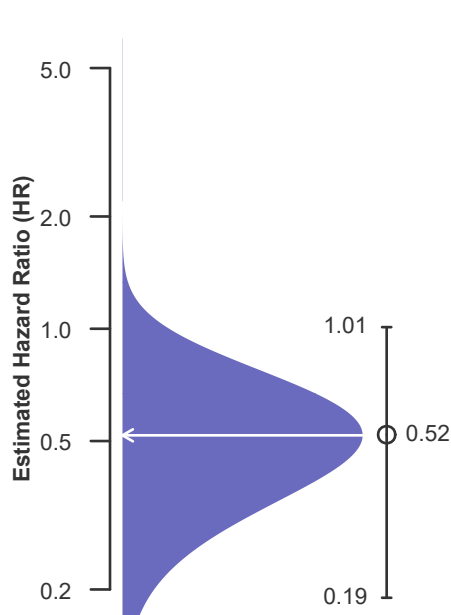
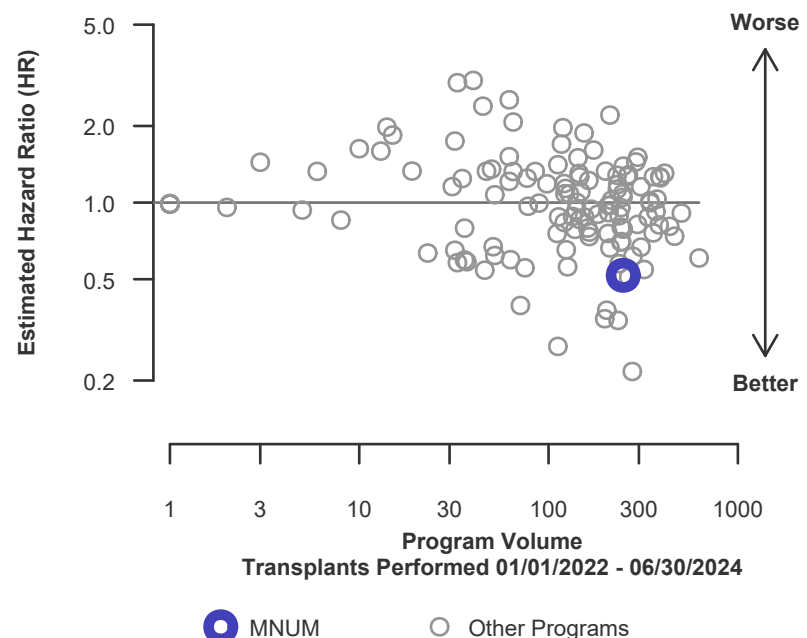


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





C. Transplant Information

Table C6L. Adult (18+) 90-Day survival with a functioning living donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	4	1,341
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	95.38% [94.26%-96.51%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.38%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	62
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.19	--
Estimated hazard ratio*	0.91	--
95% credible interval for the hazard ratio**	[0.11, 2.55]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.11, 2.55], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 9% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 89% reduced risk up to 155% increased risk.

Figure C3L. Adult (18+) 90-Day living donor graft failure HR estimate

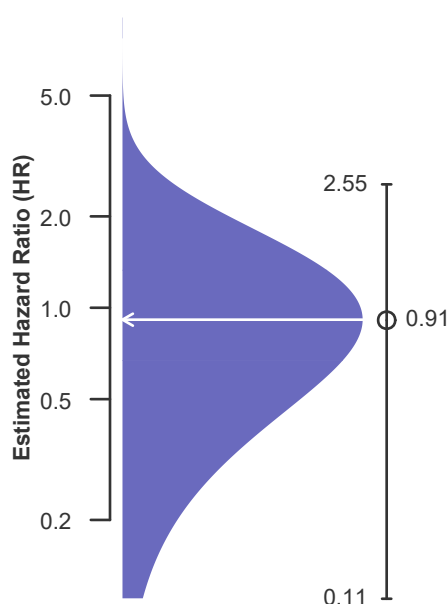
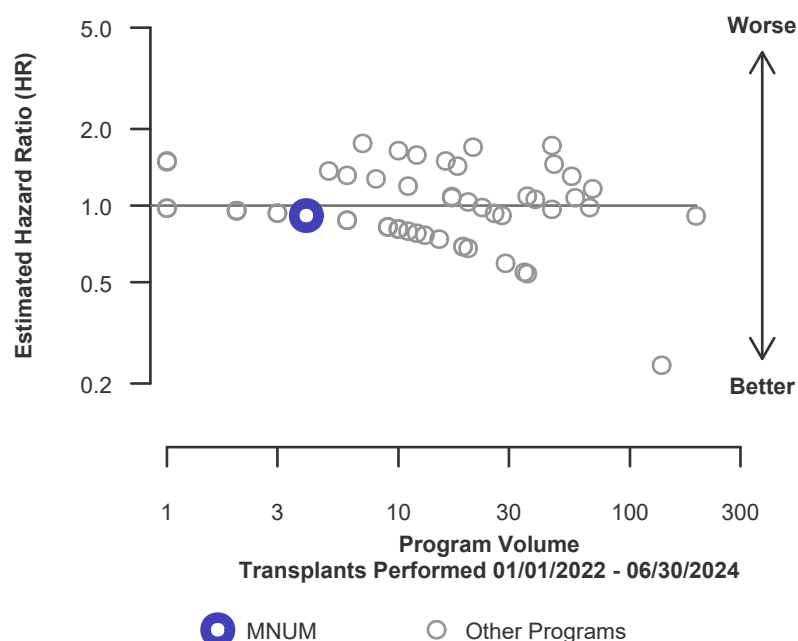


Figure C4L. Adult (18+) 90-Day living donor graft failure HR program comparison





C. Transplant Information

Table C7. Adult (18+) 1-year survival with a functioning graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	252	22,329
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.61% [94.32%-98.96%]	92.41% [92.05%-92.77%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.41%	--
Number of observed graft failures (including deaths) during the first year after transplant	8	1,610
Number of expected graft failures (including deaths) during the first year after transplant	16.09	--
Estimated hazard ratio*	0.55	--
95% credible interval for the hazard ratio**	[0.27, 0.94]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.27, 0.94], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 45% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 73% reduced risk up to 6% reduced risk.

Figure C5. Adult (18+) 1-year graft failure HR estimate

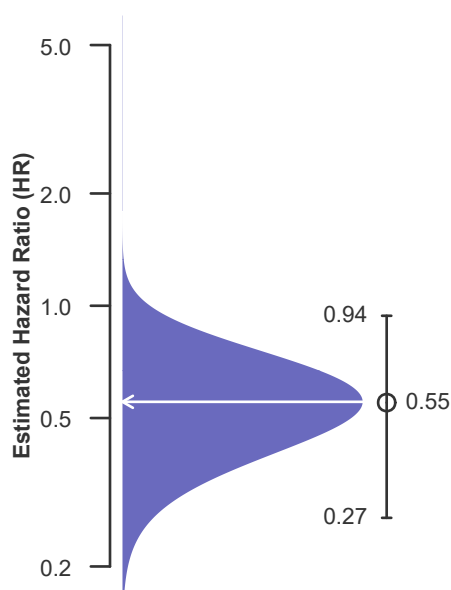
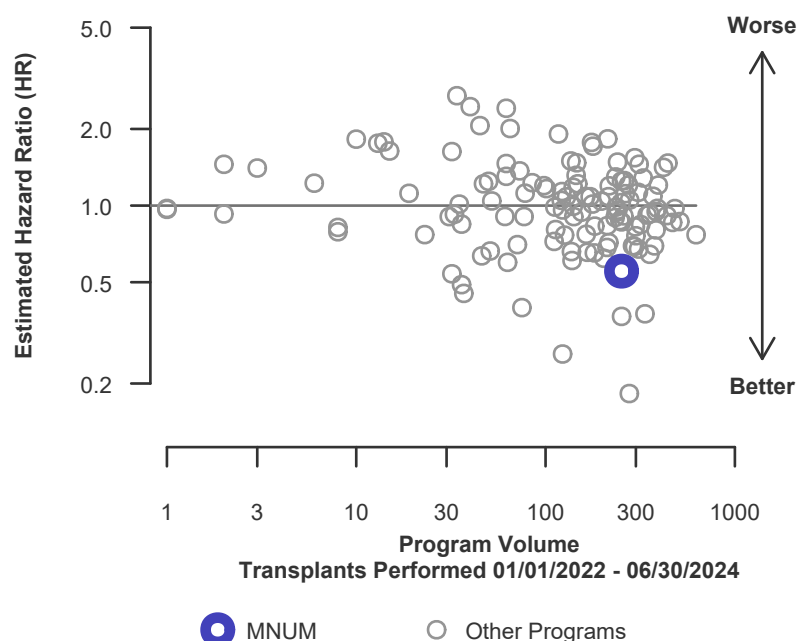


Figure C6. Adult (18+) 1-year graft failure HR program comparison





C. Transplant Information

Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	248	20,988
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	96.55% [94.22%-98.95%]	92.35% [91.98%-92.72%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.41%	--
Number of observed graft failures (including deaths) during the first year after transplant	8	1,523
Number of expected graft failures (including deaths) during the first year after transplant	15.82	--
Estimated hazard ratio*	0.56	--
95% credible interval for the hazard ratio**	[0.27, 0.96]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.27, 0.96], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 44% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 73% reduced risk up to 4% reduced risk.

Figure C5D. Adult (18+) 1-year deceased donor graft failure HR estimate

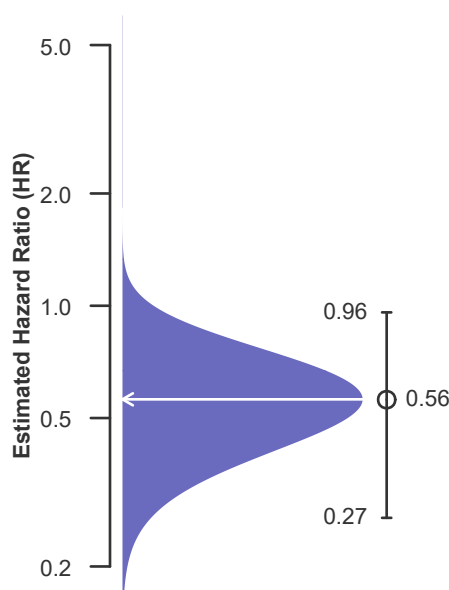
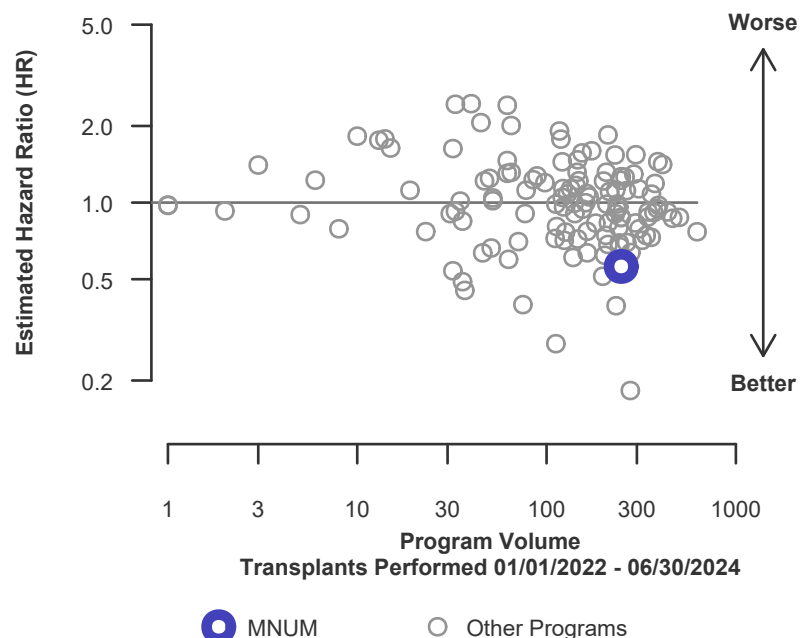


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





C. Transplant Information

Table C7L. Adult (18+) 1-year survival with a functioning living donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	4	1,341
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	93.33% [91.98%-94.70%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.33%	--
Number of observed graft failures (including deaths) during the first year after transplant	0	87
Number of expected graft failures (including deaths) during the first year after transplant	0.28	--
Estimated hazard ratio*	0.88	--
95% credible interval for the hazard ratio**	[0.11, 2.45]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.11, 2.45], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 12% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 89% reduced risk up to 145% increased risk.

Figure C5L. Adult (18+) 1-year living donor graft failure HR estimate

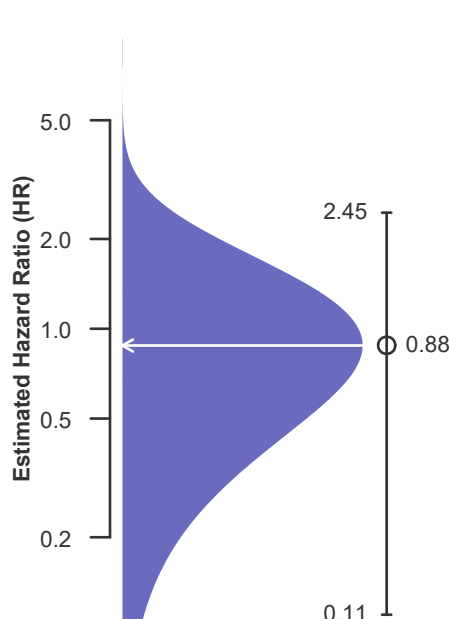
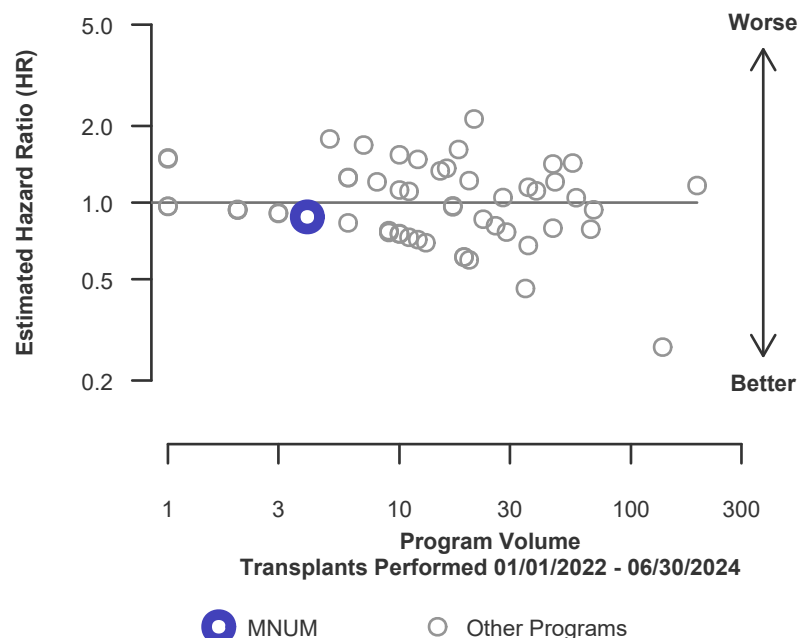


Figure C6L. Adult (18+) 1-year living donor graft failure HR program comparison





C. Transplant Information

Table C8. Adult (18+) 1-year Conditional survival with a functioning graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	248	21,332
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)	98.17% [97.35%-99.00%]	96.73% [96.63%-96.83%]
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)	97.12%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	4	613
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	6.32	--
Estimated hazard ratio*	0.72	--
95% credible interval for the hazard ratio**	[0.26, 1.40]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.26, 1.40], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 28% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 74% reduced risk up to 40% increased risk.

Figure C7. Adult (18+) 1-year Conditional graft failure HR estimate

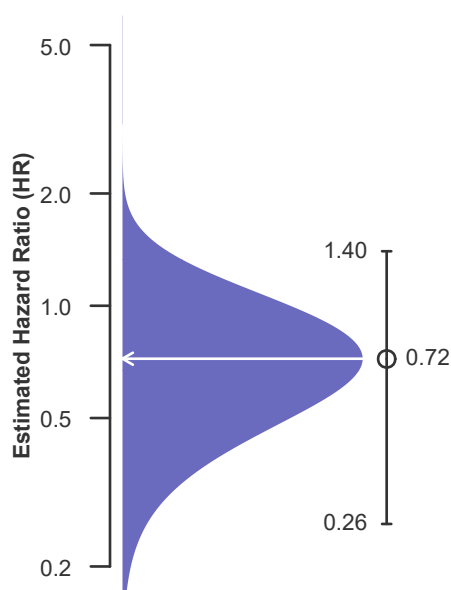
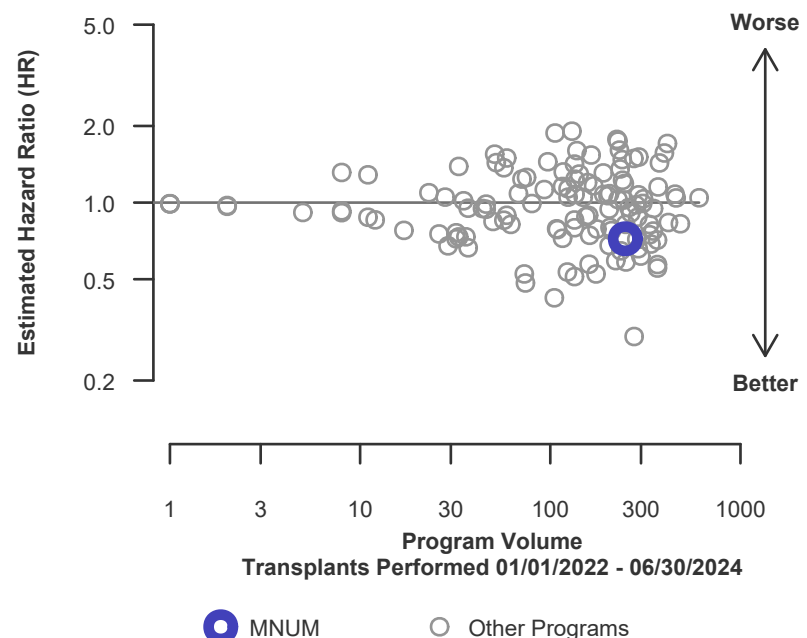


Figure C8. Adult (18+) 1-year Conditional graft failure HR program comparison





C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	244	20,053
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)	98.14% [97.30%-98.98%]	96.65% [96.55%-96.76%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.11%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	4	588
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	6.23	--
Estimated hazard ratio*	0.73	--
95% credible interval for the hazard ratio**	[0.27, 1.42]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.27, 1.42], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 27% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 73% reduced risk up to 42% increased risk.

Figure C7D. Adult (18+) 1-year Conditional deceased donor graft failure HR estimate

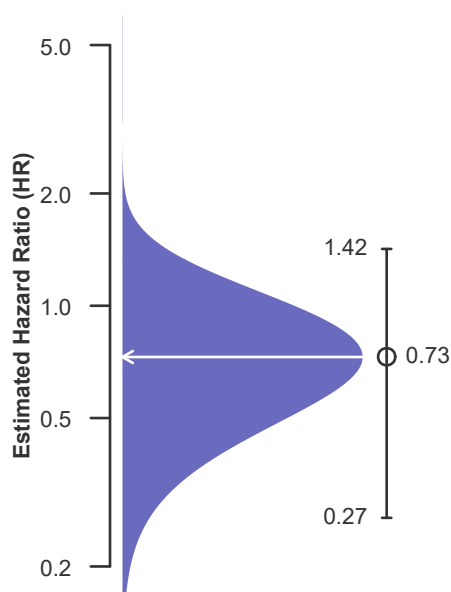
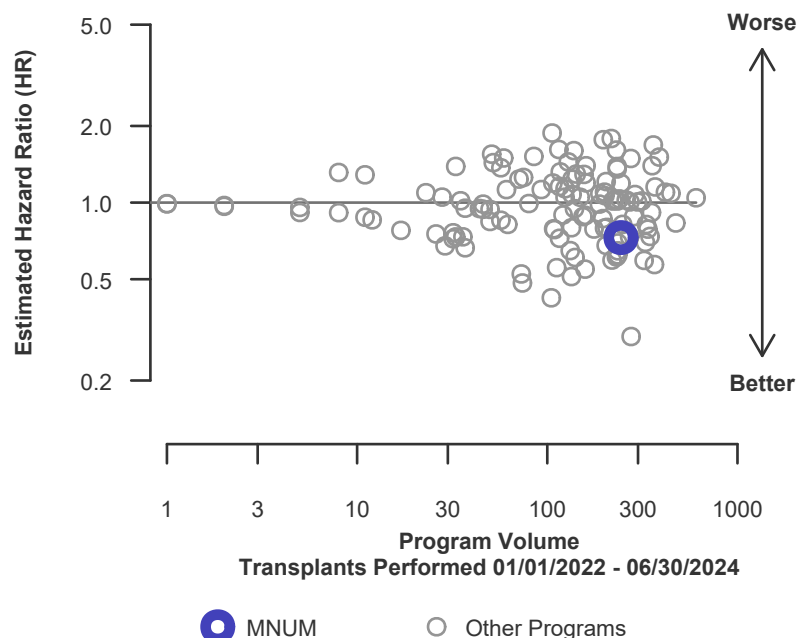


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





C. Transplant Information

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	4	1,279
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)	100.00% [100.00%-100.00%]	97.85% [97.58%-98.12%]
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)	97.85%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	25
Number of expected graft failures (including deaths) from day 91 through day 365 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 University of Minnesota Medical Center, Fairview'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 MNUM's graft failure 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 MNUM's true hazard ratio with 95% probability. The best estimate is 4% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 88% reduced risk up to 167% increased risk.

Figure C7L. Adult (18+) 1-year Conditional living donor graft failure HR estimate

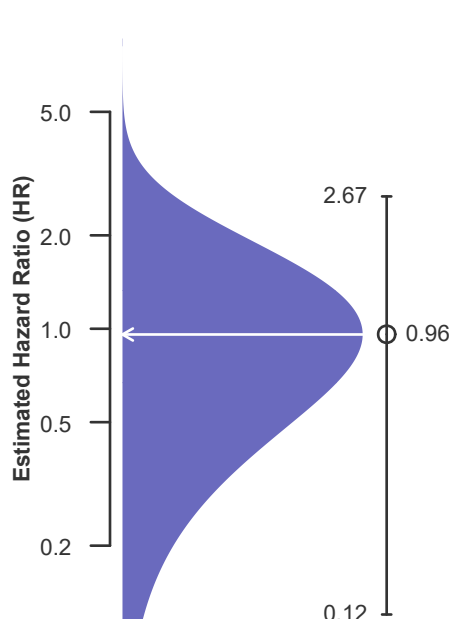
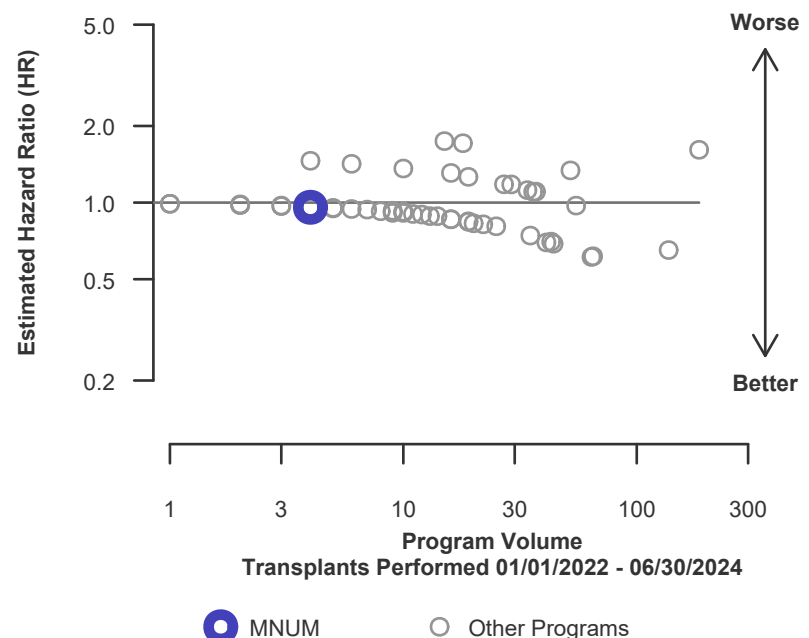


Figure C8L. Adult (18+) 1-year Conditional living donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	178	17,460
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	94.03% [90.28%-97.93%]	85.93% [85.35%-86.52%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.60%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	9	1,977
Number of expected graft failures (including deaths) during the first 3 years after transplant	19.94	--
Estimated hazard ratio*	0.50	--
95% credible interval for the hazard ratio**	[0.25, 0.84]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.25, 0.84], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 50% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 75% reduced risk up to 16% reduced risk.

Figure C9. Adult (18+) 3-year graft failure HR estimate

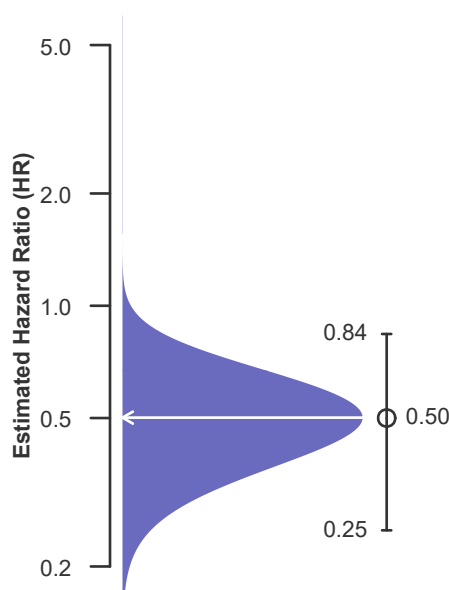
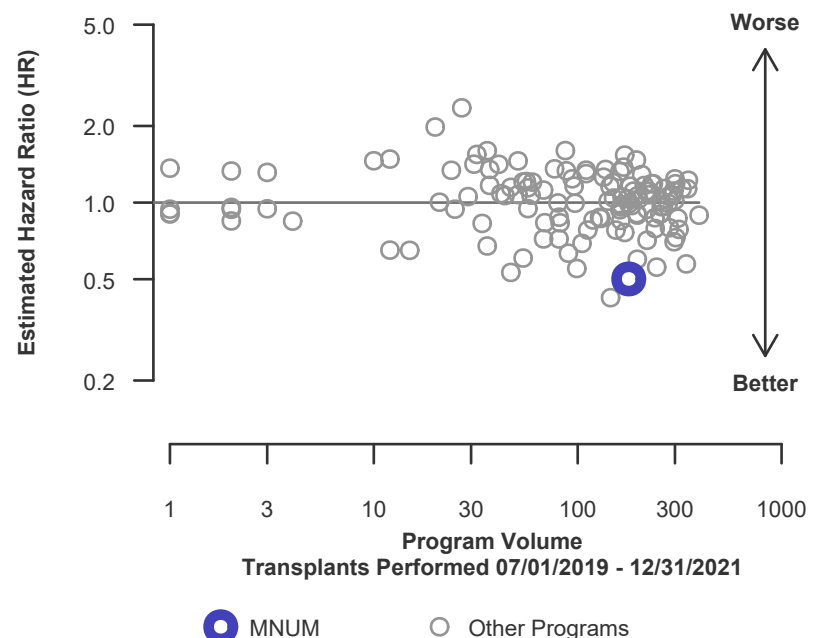


Figure C10. Adult (18+) 3-year graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	166	16,390
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	93.67% [89.72%-97.80%]	85.77% [85.16%-86.38%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.47%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	9	1,876
Number of expected graft failures (including deaths) during the first 3 years after transplant	18.92	--
Estimated hazard ratio*	0.53	--
95% credible interval for the hazard ratio**	[0.26, 0.88]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.26, 0.88], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 47% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 74% reduced risk up to 12% reduced risk.

Figure C9D. Adult (18+) 3-year deceased donor graft failure HR estimate

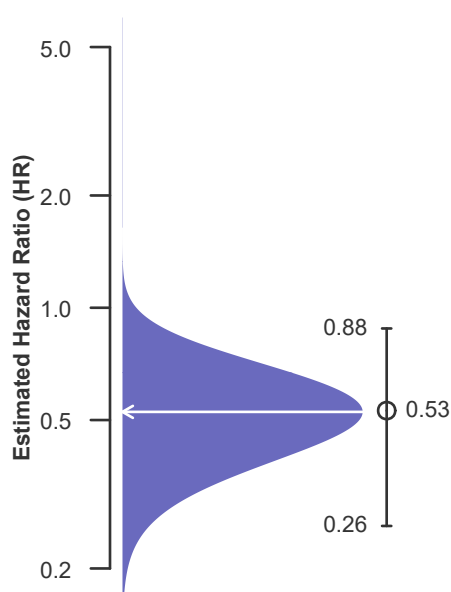
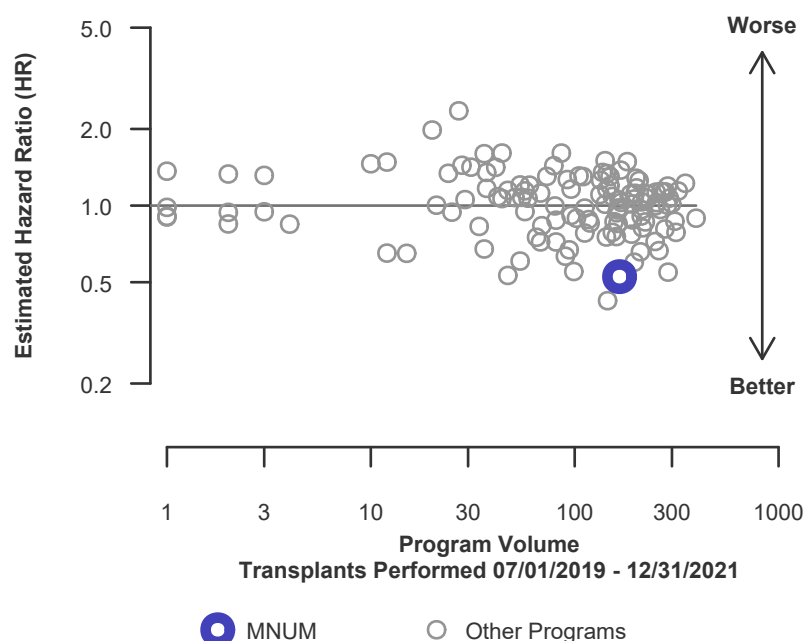


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	12	1,070
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%]	88.42% [86.29%-90.60%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.43%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	101
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.02	--
Estimated hazard ratio*	0.66	--
95% credible interval for the hazard ratio**	[0.08, 1.84]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.08, 1.84], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 34% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 92% reduced risk up to 84% increased risk.

Figure C9L. Adult (18+) 3-year living donor graft failure HR estimate

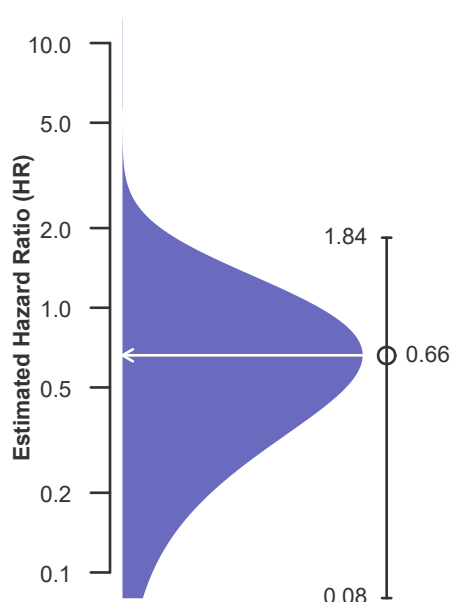
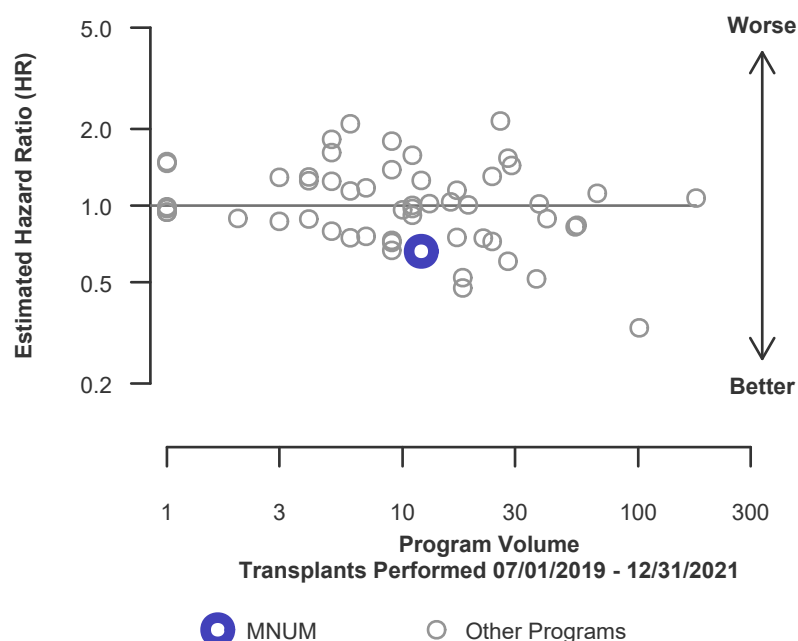


Figure C10L. Adult (18+) 3-year living donor graft failure HR program comparison





C. Transplant Information

Table C10. Pediatric (<18) 1-month survival with a functioning graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	39	1,303
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	94.87% [88.20%-100.00%]	96.62% [95.65%-97.61%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.99%	--
Number of observed graft failures (including deaths) during the first month after transplant	2	44
Number of expected graft failures (including deaths) during the first month after transplant	1.10	--
Estimated hazard ratio*	1.29	--
95% credible interval for the hazard ratio**	[0.35, 2.83]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.35, 2.83], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 29% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 65% reduced risk up to 183% increased risk.

Figure C11. Pediatric (<18) 1-month graft failure HR estimate

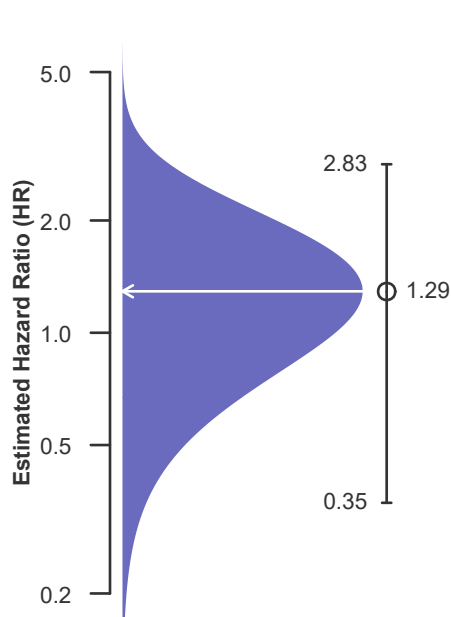
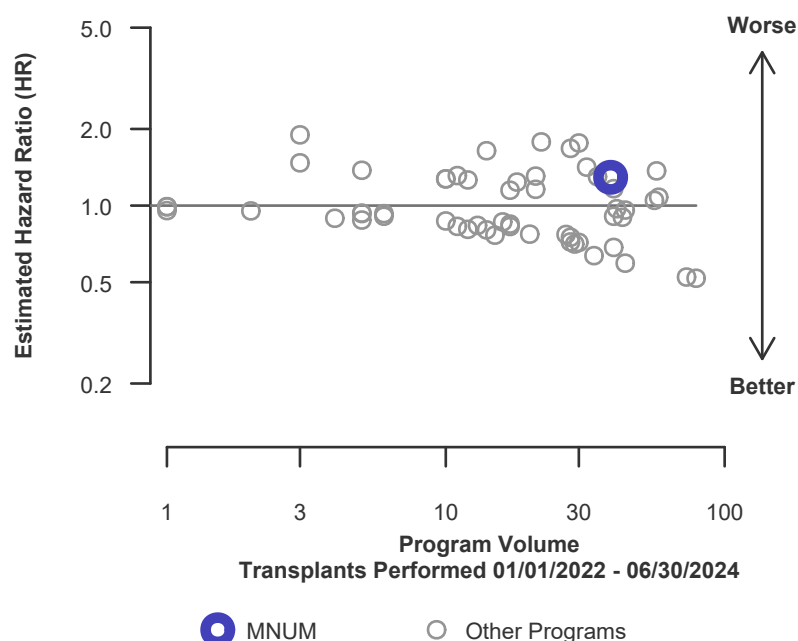


Figure C12. Pediatric (<18) 1-month graft failure HR program comparison





C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	39	1,069
Estimated probability of surviving with a functioning graft at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	94.87% [88.20%-100.00%]	96.35% [95.23%-97.48%]
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.99%	--
Number of observed graft failures (including deaths) during the first month after transplant	2	39
Number of expected graft failures (including deaths) during the first month after transplant	1.10	--
Estimated hazard ratio*	1.29	--
95% credible interval for the hazard ratio**	[0.35, 2.83]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.35, 2.83], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 29% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 65% reduced risk up to 183% increased risk.

Figure C11D. Pediatric (<18) 1-month deceased donor graft failure HR estimate

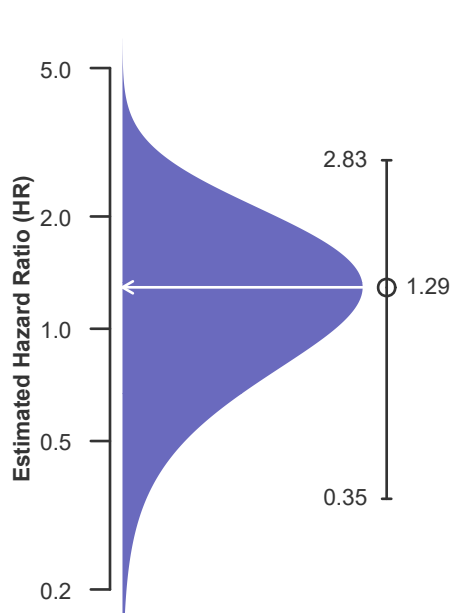
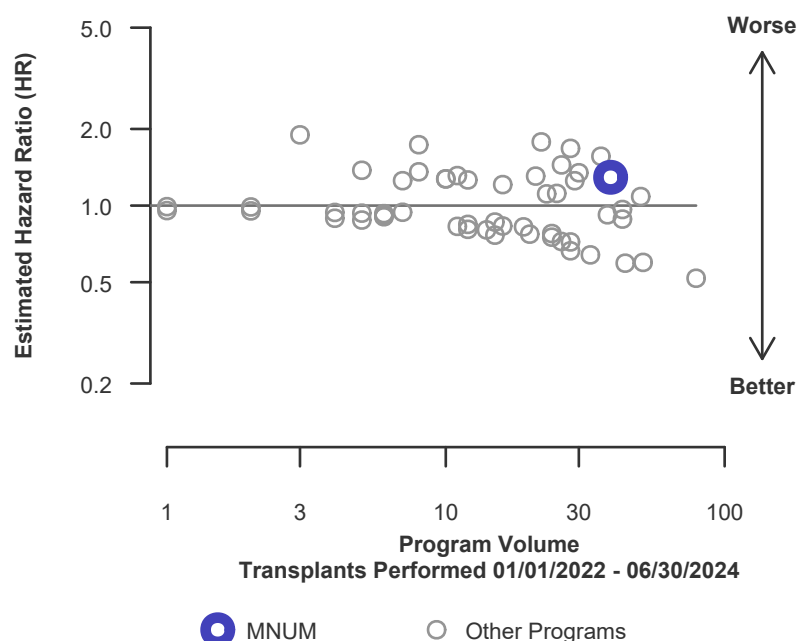


Figure C12D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison





C. Transplant Information

Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2022-06/30/2024

**Figure C11L. Pediatric (<18)
1-month living donor graft failure
HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024

**Figure C12L. Pediatric (<18) 1-month living donor graft failure
HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024



C. Transplant Information

Table C11. Pediatric (<18) 90-Day survival with a functioning graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	39	1,303
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	94.87% [88.20%-100.00%]	94.93% [93.75%-96.13%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.49%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	66
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.64	--
Estimated hazard ratio*	1.10	--
95% credible interval for the hazard ratio**	[0.30, 2.41]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

Figure C13. Pediatric (<18) 90-Day graft failure HR estimate

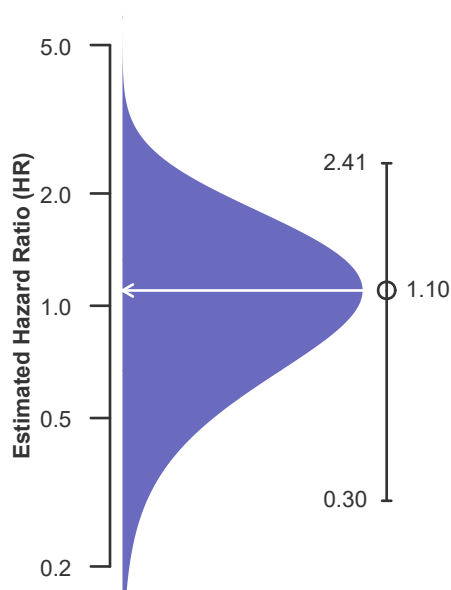
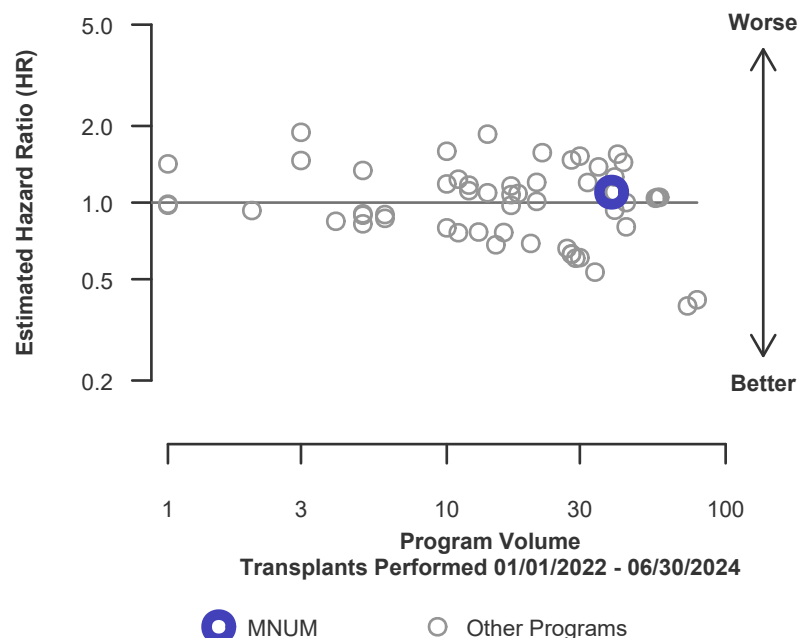


Figure C14. Pediatric (<18) 90-Day graft failure HR program comparison





C. Transplant Information

Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	39	1,069
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	94.87% [88.20%-100.00%]	94.86% [93.54%-96.19%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.49%	--
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	55
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.64	--
Estimated hazard ratio*	1.10	--
95% credible interval for the hazard ratio**	[0.30, 2.41]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

Figure C13D. Pediatric (<18) 90-Day deceased donor graft failure HR estimate

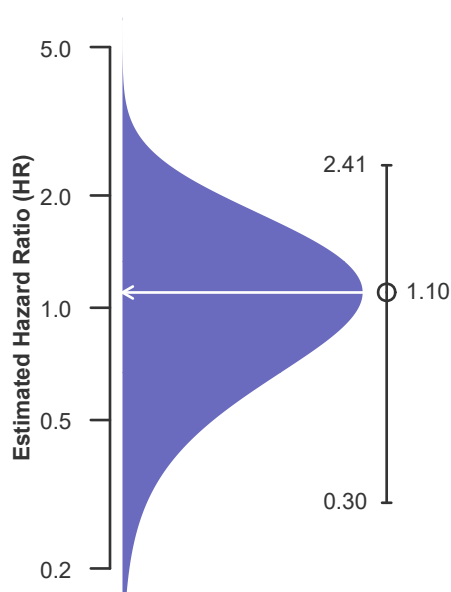
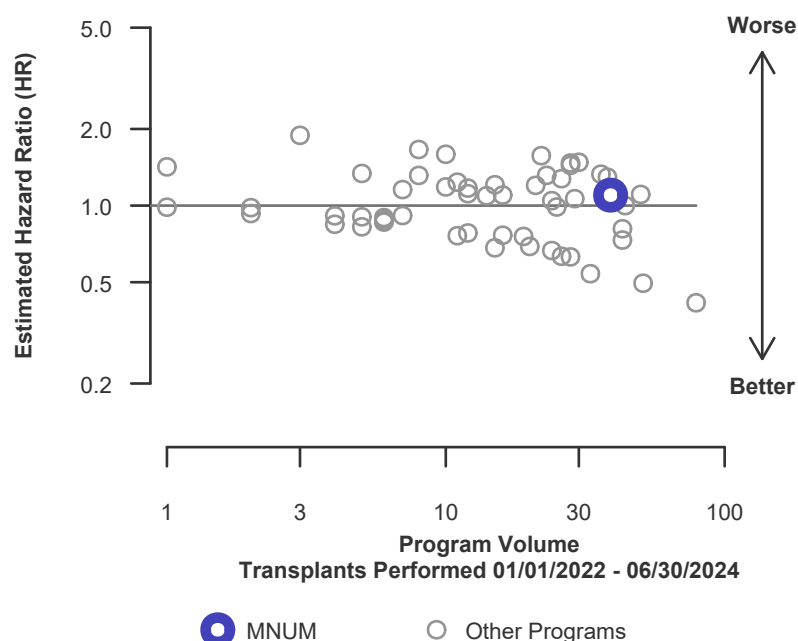


Figure C14D. Pediatric (<18) 90-Day deceased donor graft failure HR program comparison





C. Transplant Information

Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2022-06/30/2024

Figure C13L. Pediatric (<18) 90-Day living donor graft failure HR estimate

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024

Figure C14L. Pediatric (<18) 90-Day living donor graft failure HR program comparison

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024



C. Transplant Information

Table C12. Pediatric (<18) 1-year survival with a functioning graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	39	1,303
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	91.91% [83.50%-100.00%]	93.06% [91.67%-94.48%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.25%	--
Number of observed graft failures (including deaths) during the first year after transplant	3	88
Number of expected graft failures (including deaths) during the first year after transplant	2.43	--
Estimated hazard ratio*	1.13	--
95% credible interval for the hazard ratio**	[0.37, 2.31]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.37, 2.31], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 13% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 63% reduced risk up to 131% increased risk.

Figure C15. Pediatric (<18) 1-year graft failure HR estimate

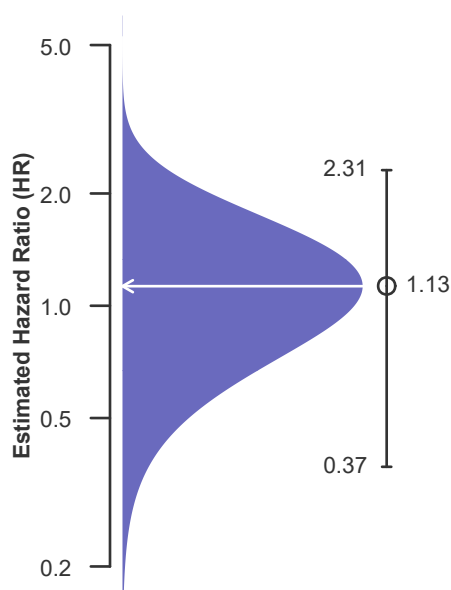
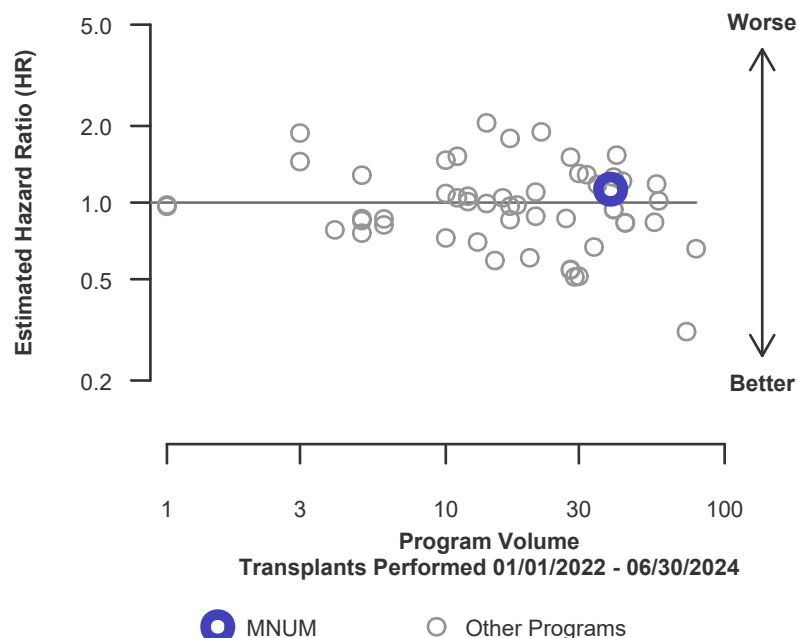


Figure C16. Pediatric (<18) 1-year graft failure HR program comparison





C. Transplant Information

Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	39	1,069
Estimated probability of surviving with a functioning graft at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	91.91% [83.50%-100.00%]	92.98% [91.44%-94.56%]
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.25%	--
Number of observed graft failures (including deaths) during the first year after transplant	3	73
Number of expected graft failures (including deaths) during the first year after transplant	2.43	--
Estimated hazard ratio*	1.13	--
95% credible interval for the hazard ratio**	[0.37, 2.31]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.37, 2.31], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 13% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 63% reduced risk up to 131% increased risk.

Figure C15D. Pediatric (<18) 1-year deceased donor graft failure HR estimate

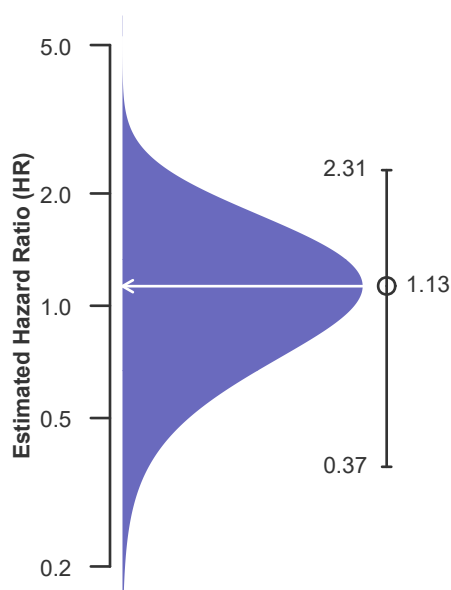
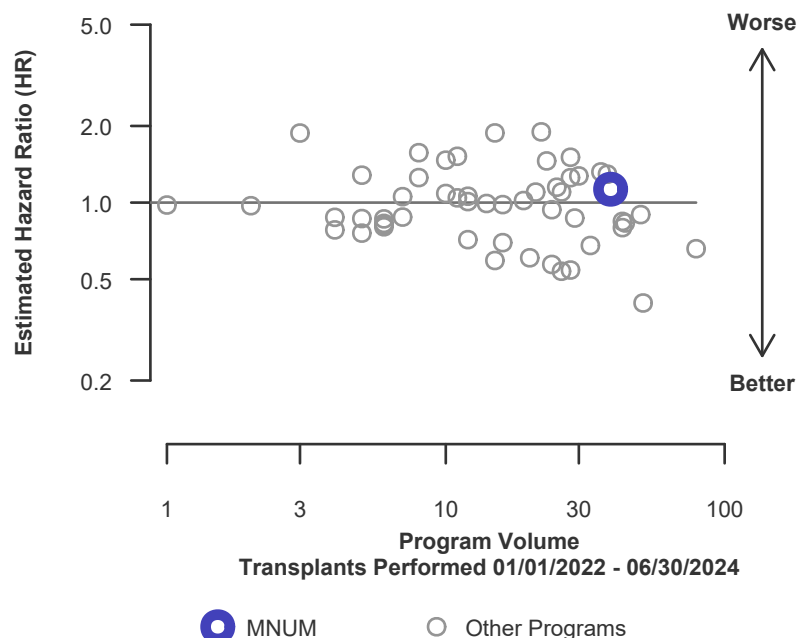


Figure C16D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison





C. Transplant Information

Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2022-06/30/2024

**Figure C15L. Pediatric (<18)
1-year living donor graft failure
HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024

**Figure C16L. Pediatric (<18) 1-year living donor graft failure
HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024



C. Transplant Information

Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft

Single organ transplants performed between 01/01/2022 and 06/30/2024

Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	37	1,237
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)	96.88% [94.68%-100.00%]	98.03% [97.78%-98.28%]
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)	97.65%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	22
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.79	--
Estimated hazard ratio*	1.07	--
95% credible interval for the hazard ratio**	[0.22, 2.59]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.22, 2.59], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 7% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 78% reduced risk up to 159% increased risk.

Figure C17. Pediatric (<18) 1-year Conditional graft failure HR estimate

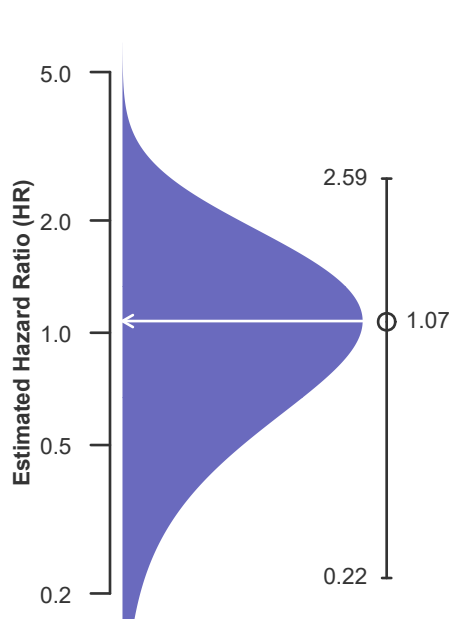
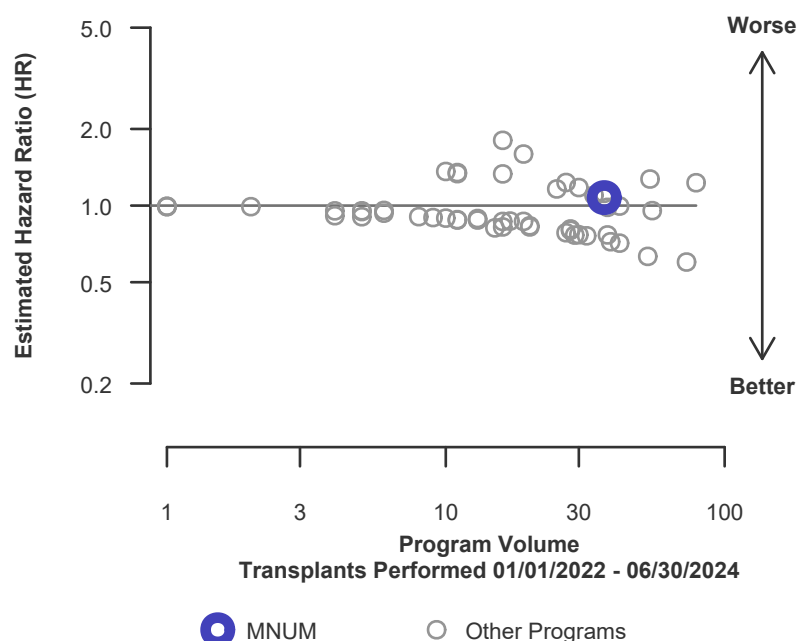


Figure C18. Pediatric (<18) 1-year Conditional graft failure HR program comparison





C. Transplant Information

Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

	MNUM	U.S.
Number of transplants evaluated	37	1,014
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)	96.88% [94.68%-100.00%]	98.03% [97.75%-98.30%]
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.65%	--
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	18
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.79	--
Estimated hazard ratio*	1.07	--
95% credible interval for the hazard ratio**	[0.22, 2.59]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.22, 2.59], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 7% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 78% reduced risk up to 159% increased risk.

Figure C17D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR estimate

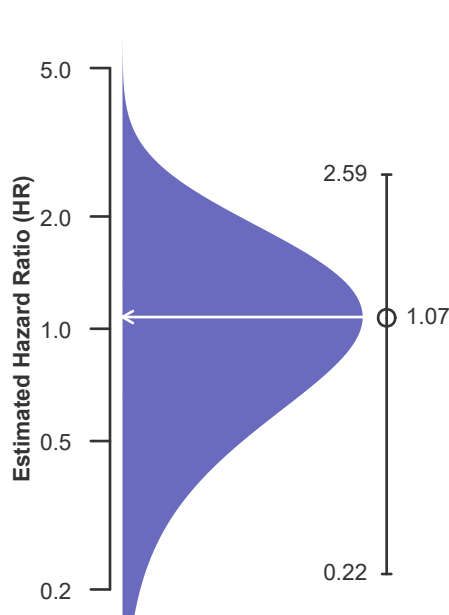
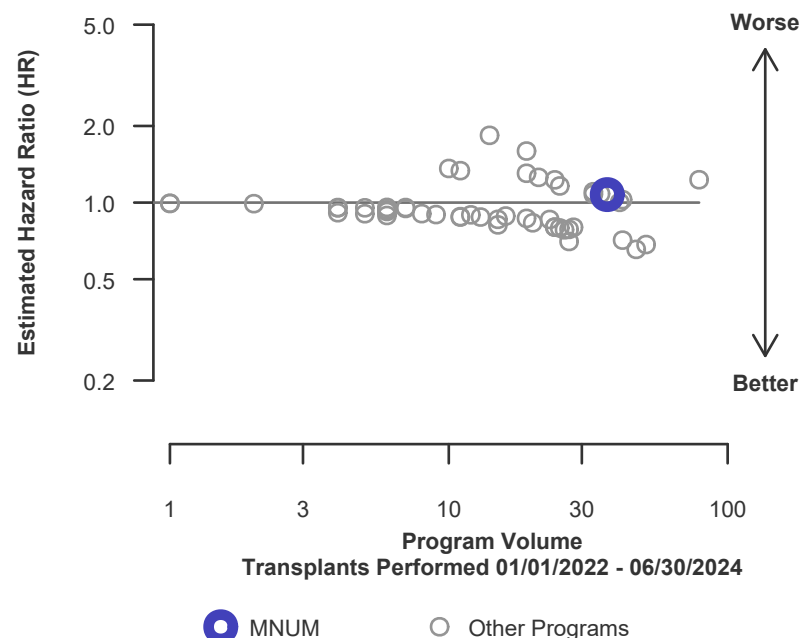


Figure C18D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR program comparison





C. Transplant Information

Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft
Single organ transplants performed between 01/01/2022 and 06/30/2024
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2022-06/30/2024

Figure C17L. Pediatric (<18)
1-year Conditional living donor
graft failure HR estimate

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024

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

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024



C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	20	1,110
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	95.00% [85.91%-100.00%]	90.01% [88.07%-92.00%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.79%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	93
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.74	--
Estimated hazard ratio*	0.80	--
95% credible interval for the hazard ratio**	[0.17, 1.93]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.17, 1.93], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 20% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 83% reduced risk up to 93% increased risk.

Figure C19. Pediatric (<18) 3-year graft failure HR estimate

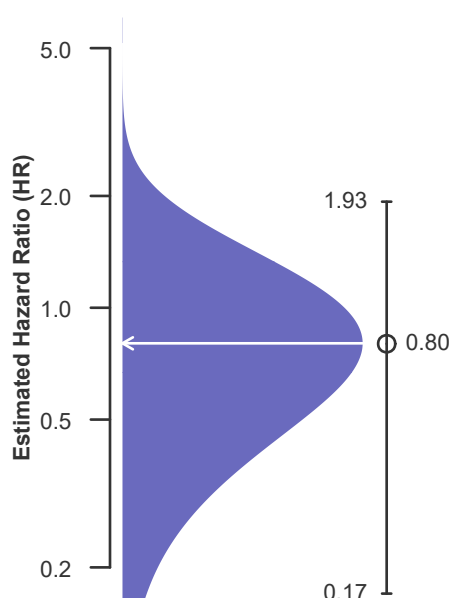
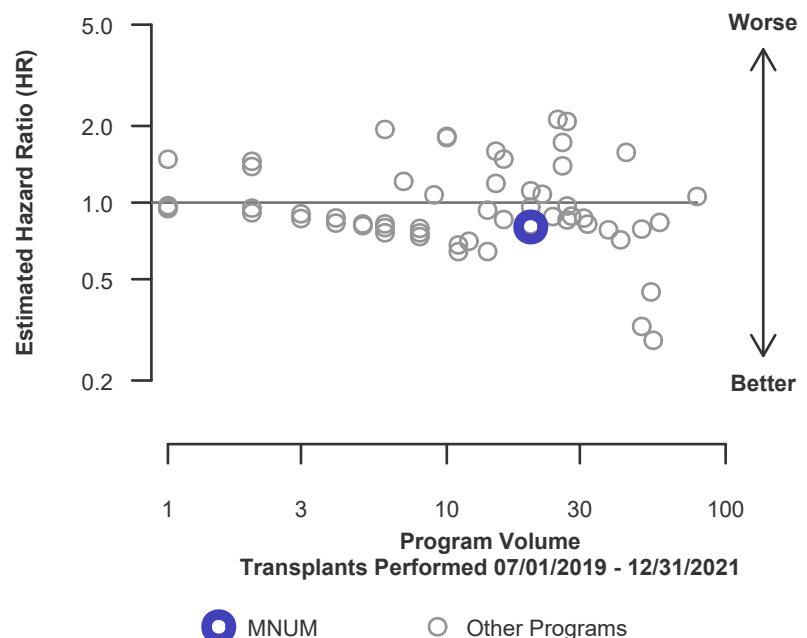


Figure C20. Pediatric (<18) 3-year graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	20	929
Estimated probability of surviving with a functioning graft at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	95.00% [85.91%-100.00%]	89.71% [87.58%-91.90%]
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.79%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	81
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.74	--
Estimated hazard ratio*	0.80	--
95% credible interval for the hazard ratio**	[0.17, 1.93]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.17, 1.93], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 20% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 83% reduced risk up to 93% increased risk.

Figure C19D. Pediatric (<18) 3-year deceased donor graft failure HR estimate

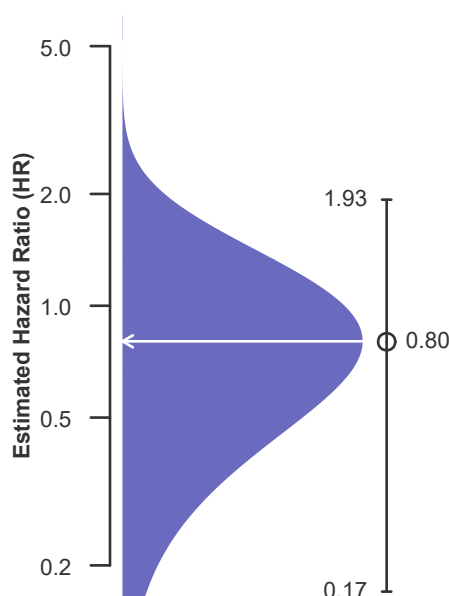
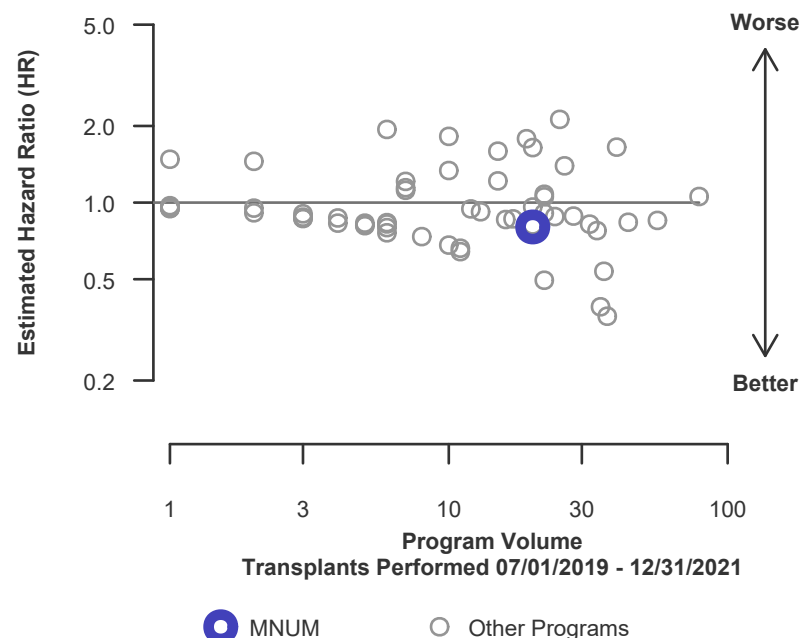


Figure C20D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Deaths and retransplants are considered graft failures

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

This center did not perform any
transplants relevant to
this table during
07/01/2019-12/31/2021

Figure C19L. Pediatric (<18) 3-year living donor graft failure HR estimate

This center did not perform any
transplants relevant to
this figure during
07/01/2019-12/31/2021

Figure C20L. Pediatric (<18) 3-year living donor graft failure HR program comparison

This center did not perform any
transplants relevant to
this figure during
07/01/2019-12/31/2021



C. Transplant Information

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

Single organ transplants performed between 01/01/2022 and 06/30/2024

Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	246	21,592
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.19% [98.07%-100.00%]	98.41% [98.24%-98.57%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.58%	--
Number of observed deaths during the first month after transplant	2	344
Number of expected deaths during the first month after transplant	3.53	--
Estimated hazard ratio*	0.72	--
95% credible interval for the hazard ratio**	[0.20, 1.59]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.20, 1.59], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 28% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 80% reduced risk up to 59% increased risk.

Figure C21. Adult (18+) 1-month patient death HR estimate

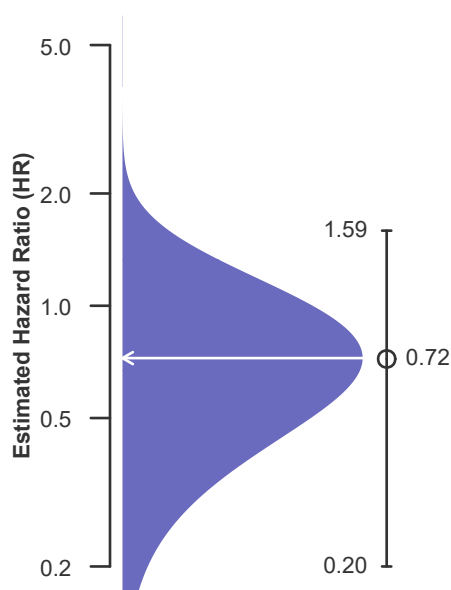
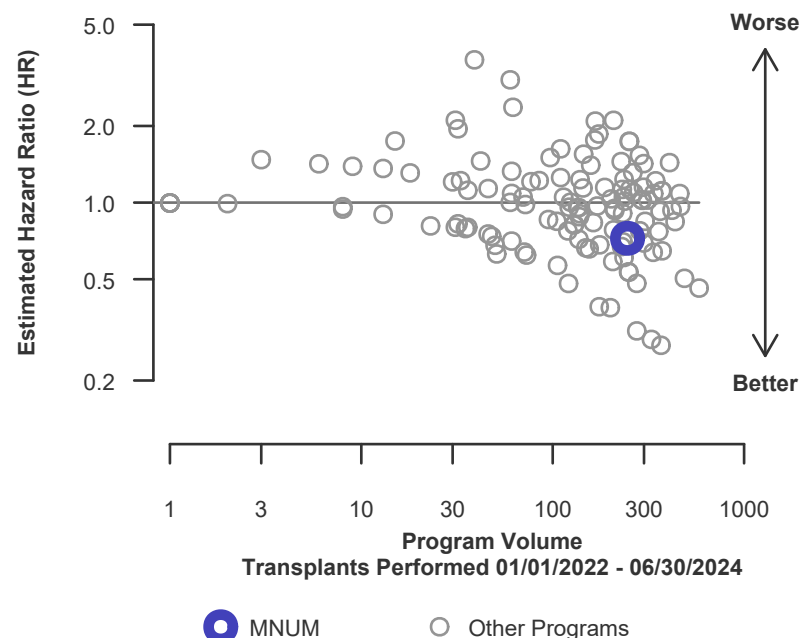


Figure C22. Adult (18+) 1-month patient death HR program comparison





C. Transplant Information

Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2022 and 06/30/2024

Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	242	20,267
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	99.17% [98.04%-100.00%]	98.37% [98.20%-98.55%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.57%	--
Number of observed deaths during the first month after transplant	2	330
Number of expected deaths during the first month after transplant	3.48	--
Estimated hazard ratio*	0.73	--
95% credible interval for the hazard ratio**	[0.20, 1.60]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.20, 1.60], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 27% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 80% reduced risk up to 60% increased risk.

Figure C21D. Adult (18+) 1-month patient death HR estimate (deceased donor grafts)

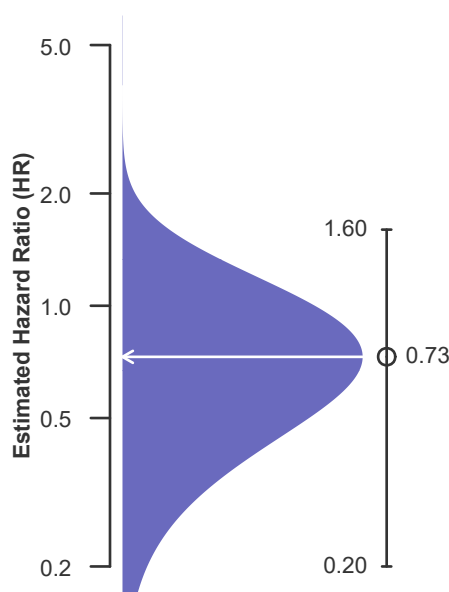
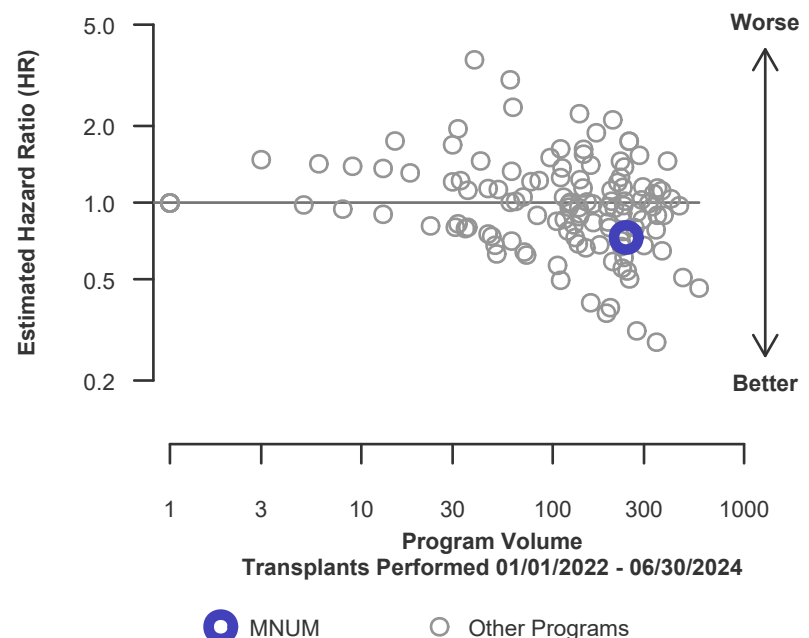


Figure C22D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2022 and 06/30/2024

Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	4	1,325
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	98.94% [98.39%-99.50%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.94%	--
Number of observed deaths during the first month after transplant	0	14
Number of expected deaths during the first month after transplant	0.04	--
Estimated hazard ratio*	0.98	--
95% credible interval for the hazard ratio**	[0.12, 2.73]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.12, 2.73], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 88% reduced risk up to 173% increased risk.

Figure C21L. Adult (18+) 1-month patient death HR estimate (living donor grafts)

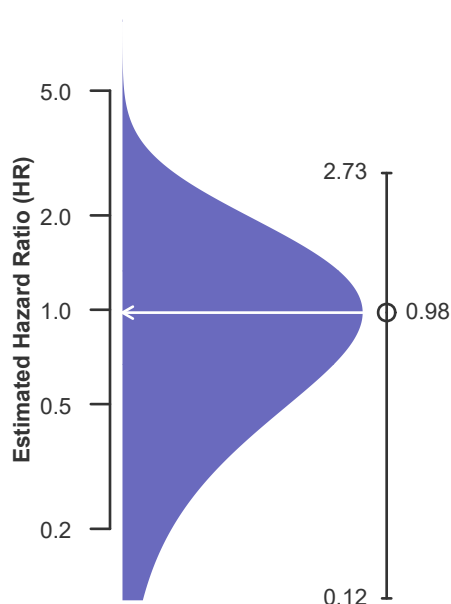
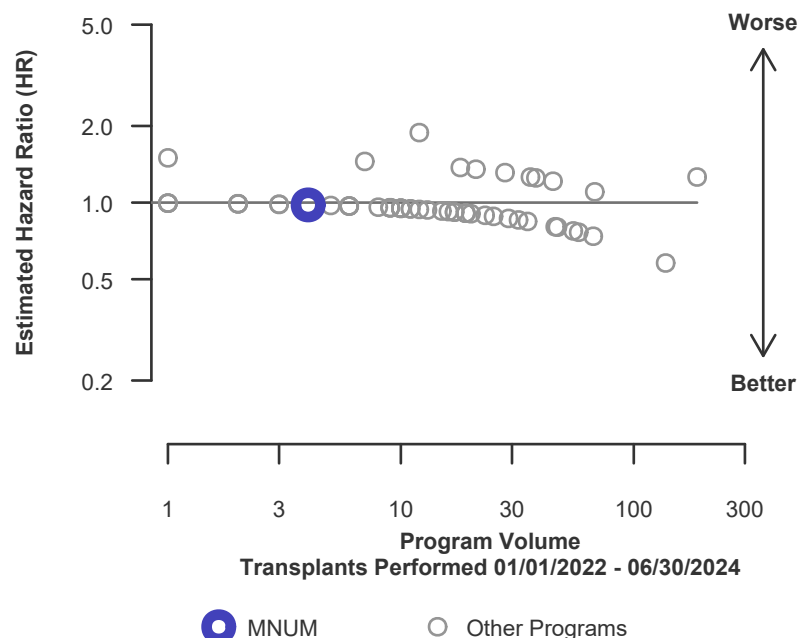


Figure C22L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





C. Transplant Information

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

Single organ transplants performed between 01/01/2022 and 06/30/2024
Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	246	21,592
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.34% [95.25%-99.48%]	94.34% [94.02%-94.66%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.87%	--
Number of observed deaths during the first year after transplant	6	1,149
Number of expected deaths during the first year after transplant	12.15	--
Estimated hazard ratio*	0.57	--
95% credible interval for the hazard ratio**	[0.24, 1.02]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.24, 1.02], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 43% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 76% reduced risk up to 2% increased risk.

Figure C23. Adult (18+) 1-year patient death HR estimate

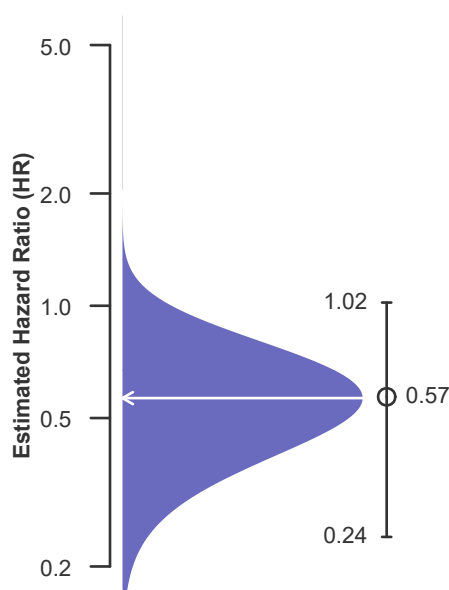
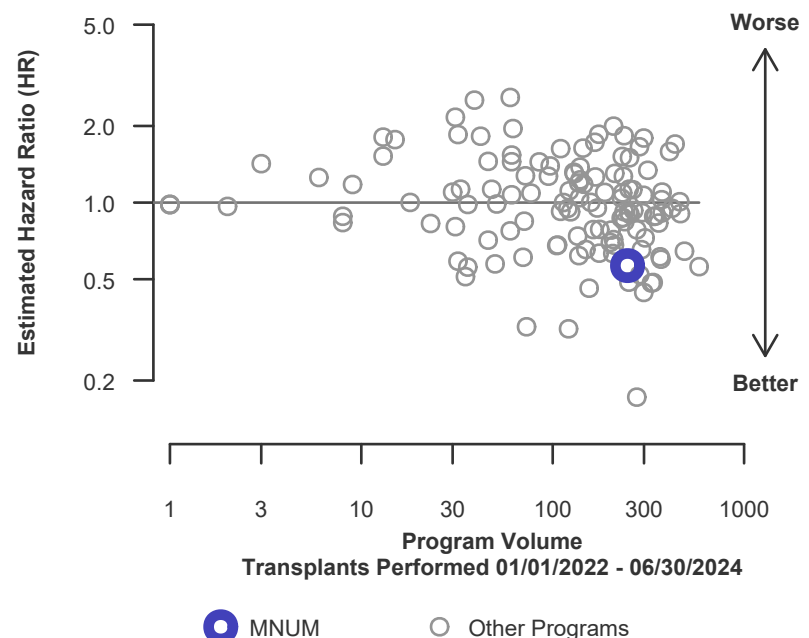


Figure C24. Adult (18+) 1-year patient death HR program comparison





C. Transplant Information

Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2022 and 06/30/2024

Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	242	20,267
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	97.30% [95.17%-99.47%]	94.22% [93.88%-94.55%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.85%	--
Number of observed deaths during the first year after transplant	6	1,102
Number of expected deaths during the first year after transplant	11.99	--
Estimated hazard ratio*	0.57	--
95% credible interval for the hazard ratio**	[0.25, 1.03]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.25, 1.03], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 43% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 75% reduced risk up to 3% increased risk.

Figure C23D. Adult (18+) 1-year patient death HR estimate (deceased donor grafts)

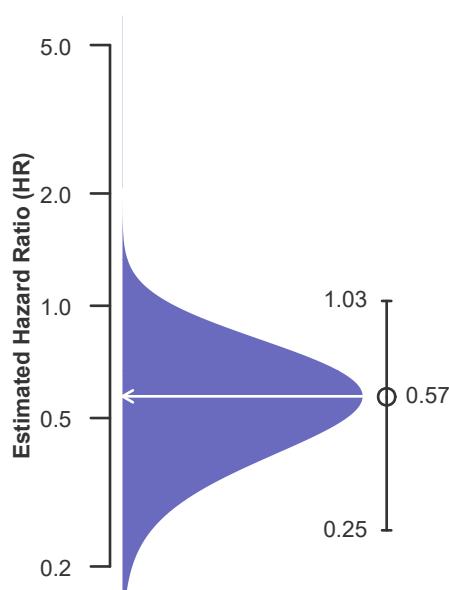
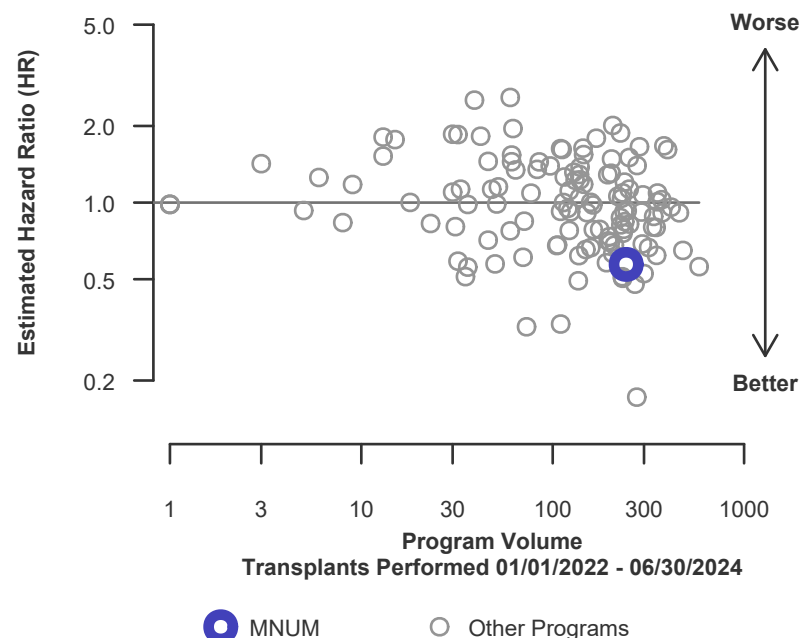


Figure C24D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2022 and 06/30/2024

Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	4	1,325
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	96.24% [95.19%-97.31%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.25%	--
Number of observed deaths during the first year after transplant	0	47
Number of expected deaths during the first year after transplant	0.15	--
Estimated hazard ratio*	0.93	--
95% credible interval for the hazard ratio**	[0.11, 2.59]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.11, 2.59], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 7% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 89% reduced risk up to 159% increased risk.

Figure C23L. Adult (18+) 1-year patient death HR estimate (living donor grafts)

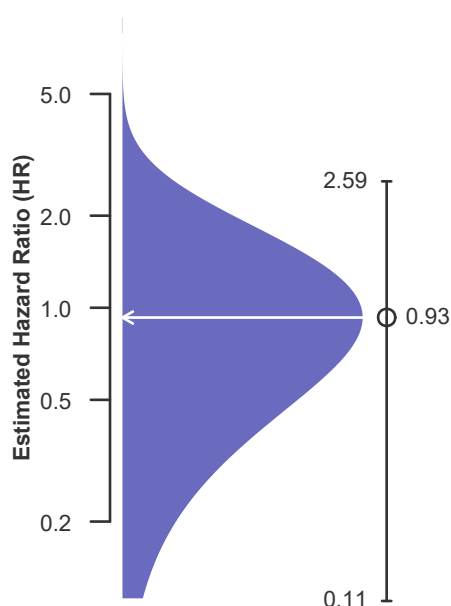
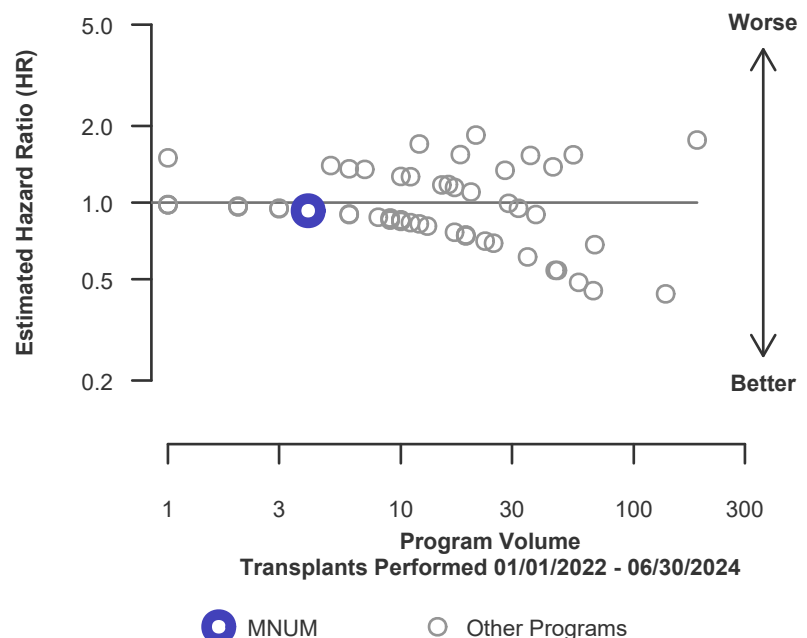


Figure C24L. Adult (18+) 1-year patient death HR program comparison (living donor grafts)





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	174	16,849
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.62% [93.71%-99.61%]	88.16% [87.61%-88.72%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.71%	--
Number of observed deaths during the first 3 years after transplant	5	1,569
Number of expected deaths during the first 3 years after transplant	16.30	--
Estimated hazard ratio*	0.38	--
95% credible interval for the hazard ratio**	[0.15, 0.71]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.15, 0.71], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 62% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 85% reduced risk up to 29% reduced risk.

Figure C25. Adult (18+) 3-year patient death HR estimate

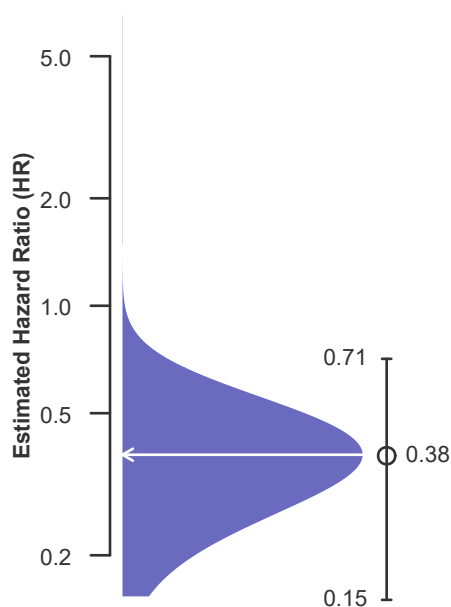
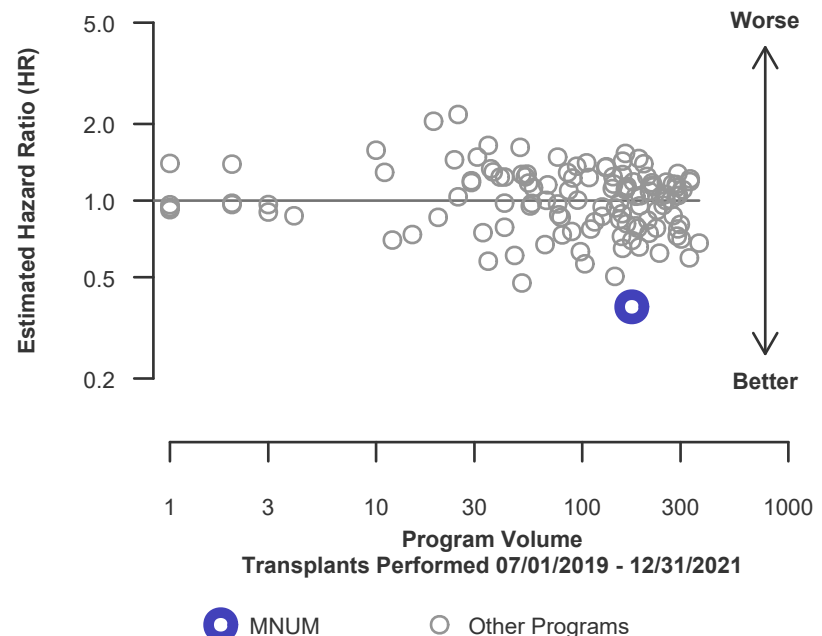


Figure C26. Adult (18+) 3-year patient death HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	162	15,790
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	96.41% [93.33%-99.58%]	87.96% [87.38%-88.55%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.22%	--
Number of observed deaths during the first 3 years after transplant	5	1,495
Number of expected deaths during the first 3 years after transplant	15.96	--
Estimated hazard ratio*	0.39	--
95% credible interval for the hazard ratio**	[0.16, 0.73]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.16, 0.73], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 61% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 84% reduced risk up to 27% reduced risk.

Figure C25D. Adult (18+) 3-year patient death HR estimate (deceased donor grafts)

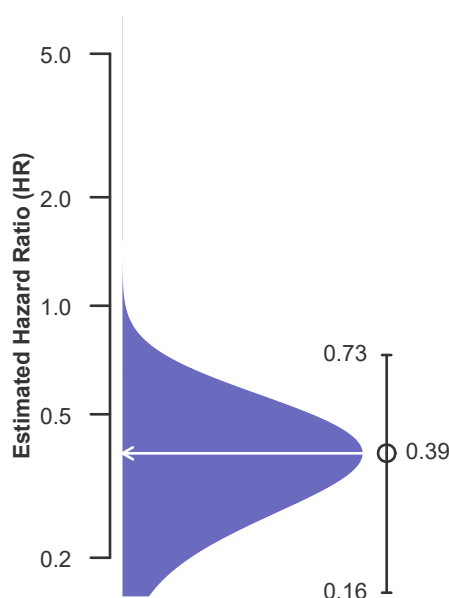
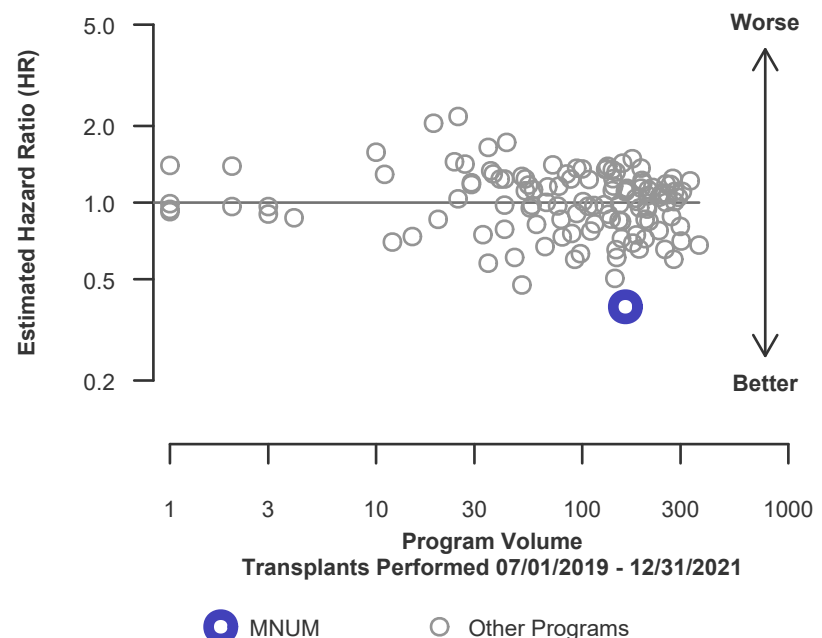


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	12	1,059
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	100.00% [100.00%-100.00%]	91.11% [89.18%-93.09%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	95.34%	--
Number of observed deaths during the first 3 years after transplant	0	74
Number of expected deaths during the first 3 years after transplant	0.33	--
Estimated hazard ratio*	0.86	--
95% credible interval for the hazard ratio**	[0.10, 2.39]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.10, 2.39], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 14% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 90% reduced risk up to 139% increased risk.

Figure C25L. Adult (18+) 3-year patient death HR estimate (living donor grafts)

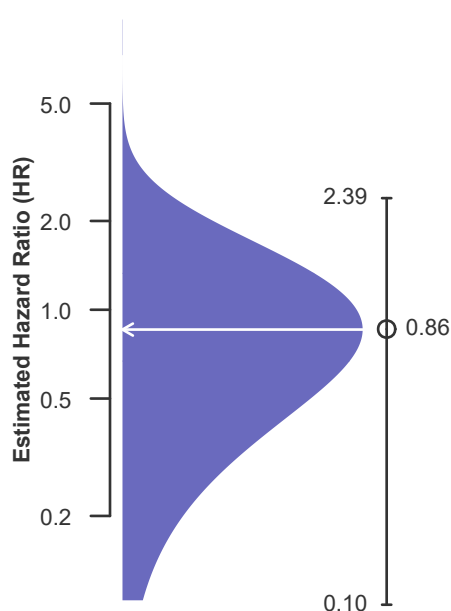
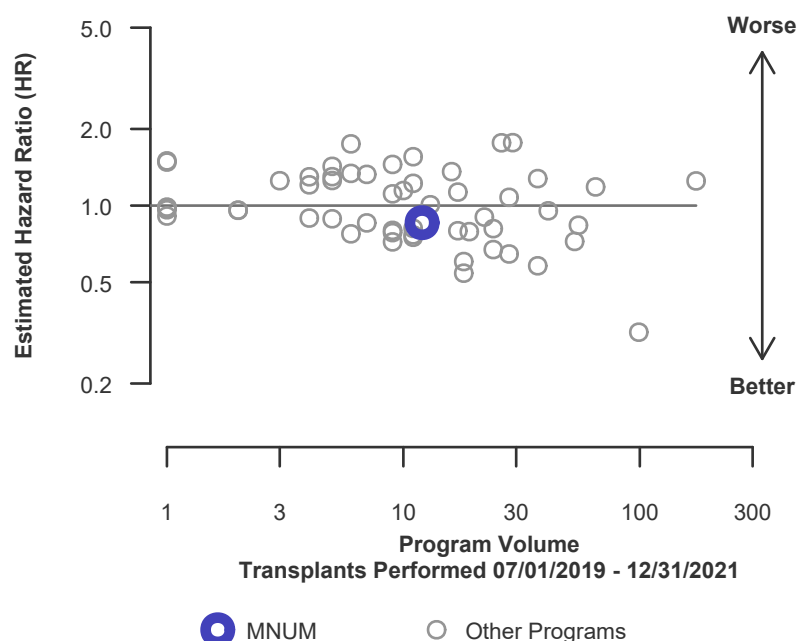


Figure C26L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





C. Transplant Information

Table C18. Pediatric (<18) 1-month patient survival
Single organ transplants performed between 01/01/2022 and 06/30/2024
Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	38	1,235
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.37% [92.41%-100.00%]	98.22% [97.48%-98.96%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.40%	--
Number of observed deaths during the first month after transplant	1	22
Number of expected deaths during the first month after transplant	0.59	--
Estimated hazard ratio*	1.16	--
95% credible interval for the hazard ratio**	[0.24, 2.79]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

Figure C27. Pediatric (<18) 1-month patient death HR estimate

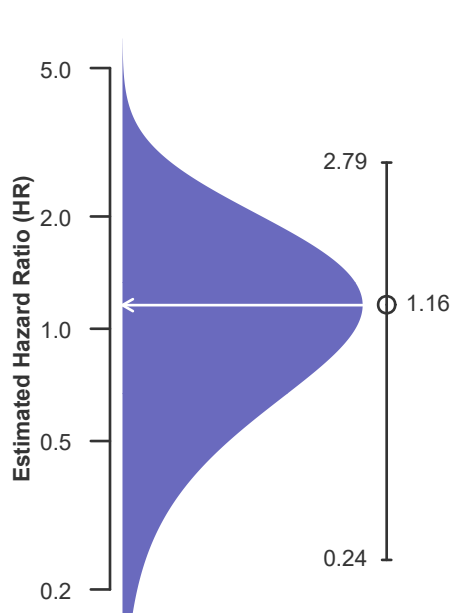
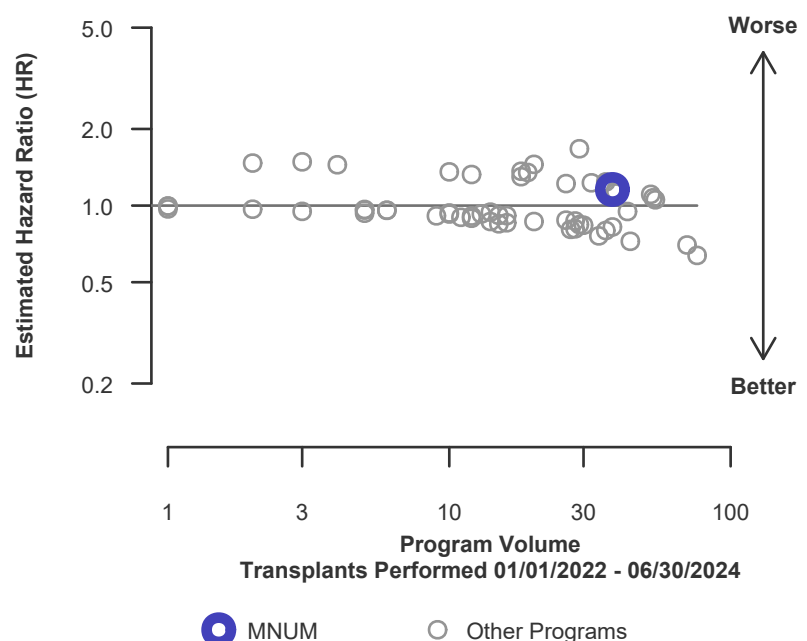


Figure C28. Pediatric (<18) 1-month patient death HR program comparison





C. Transplant Information

Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2022 and 06/30/2024

Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	38	1,003
Estimated probability of surviving at 1 month & [95% CI] (unadjusted for patient and donor characteristics)	97.37% [92.41%-100.00%]	98.01% [97.14%-98.87%]
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.40%	--
Number of observed deaths during the first month after transplant	1	20
Number of expected deaths during the first month after transplant	0.59	--
Estimated hazard ratio*	1.16	--
95% credible interval for the hazard ratio**	[0.24, 2.79]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

Figure C27D. Pediatric (<18) 1-month patient death HR estimate (deceased donor grafts)

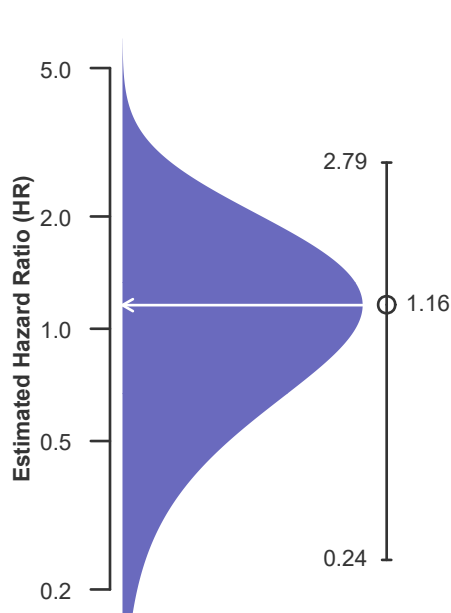
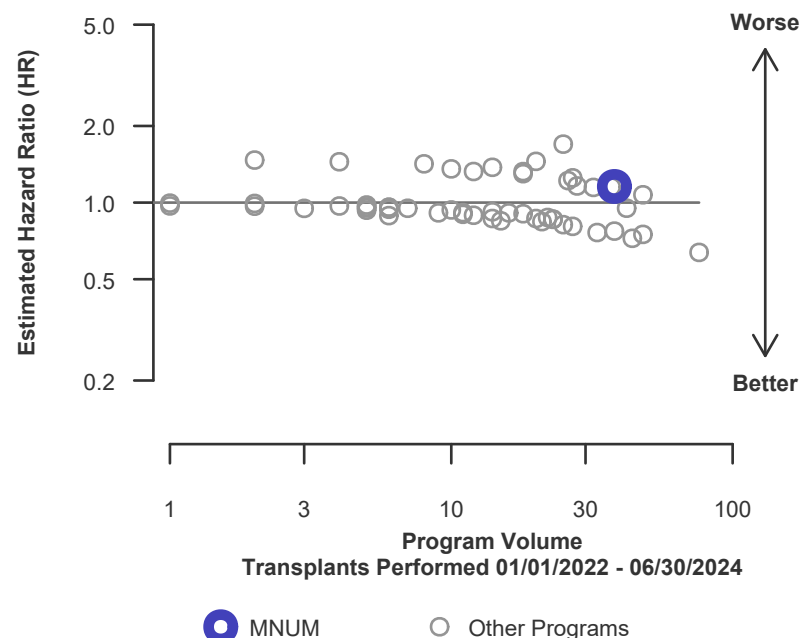


Figure C28D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)
Single organ transplants performed between 01/01/2022 and 06/30/2024
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2022-06/30/2024

**Figure C27L. Pediatric (<18)
1-month patient death HR
estimate (living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024

**Figure C28L. Pediatric (<18) 1-month patient death HR
program comparison (living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024



C. Transplant Information

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

Single organ transplants performed between 01/01/2022 and 06/30/2024
Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	38	1,235
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	94.33% [86.96%-100.00%]	95.32% [94.12%-96.53%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.35%	--
Number of observed deaths during the first year after transplant	2	56
Number of expected deaths during the first year after transplant	1.71	--
Estimated hazard ratio*	1.08	--
95% credible interval for the hazard ratio**	[0.29, 2.37]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.29, 2.37], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 8% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 71% reduced risk up to 137% increased risk.

Figure C29. Pediatric (<18) 1-year patient death HR estimate

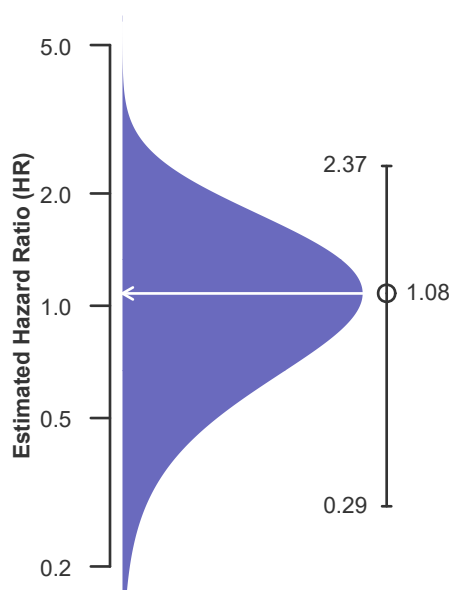
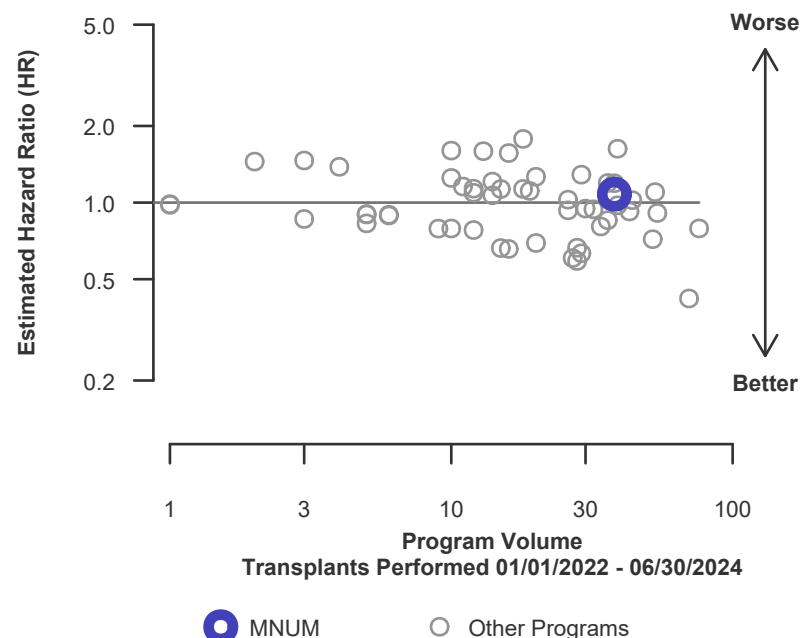


Figure C30. Pediatric (<18) 1-year patient death HR program comparison





C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2022 and 06/30/2024

Retransplants excluded

	MNUM	U.S.
Number of transplants evaluated	38	1,003
Estimated probability of surviving at 1 year & [95% CI] (unadjusted for patient and donor characteristics)	94.33% [86.96%-100.00%]	95.17% [93.83%-96.53%]
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.35%	--
Number of observed deaths during the first year after transplant	2	47
Number of expected deaths during the first year after transplant	1.71	--
Estimated hazard ratio*	1.08	--
95% credible interval for the hazard ratio**	[0.29, 2.37]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.29, 2.37], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 8% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 71% reduced risk up to 137% increased risk.

Figure C29D. Pediatric (<18) 1-year patient death HR estimate (deceased donor grafts)

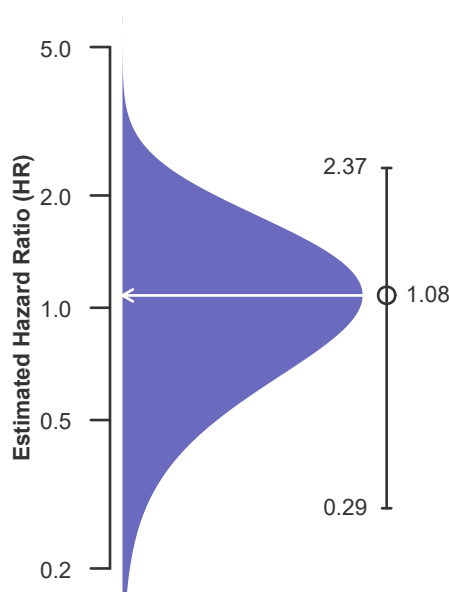
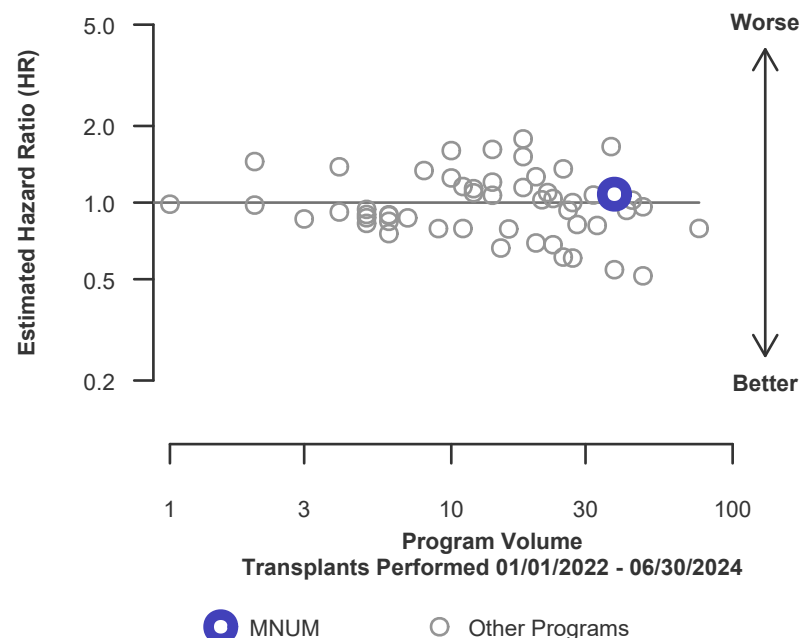


Figure C30D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)
Single organ transplants performed between 01/01/2022 and 06/30/2024
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2022-06/30/2024

**Figure C29L. Pediatric (<18)
1-year patient death HR estimate
(living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024

**Figure C30L. Pediatric (<18) 1-year patient death HR program
comparison (living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2022-06/30/2024



C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	18	1,045
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	94.44% [84.43%-100.00%]	93.56% [91.91%-95.25%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.47%	--
Number of observed deaths during the first 3 years after transplant	1	55
Number of expected deaths during the first 3 years after transplant	0.97	--
Estimated hazard ratio*	1.01	--
95% credible interval for the hazard ratio**	[0.21, 2.43]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.21, 2.43], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 1% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 79% reduced risk up to 143% increased risk.

Figure C31. Pediatric (<18) 3-year patient death HR estimate

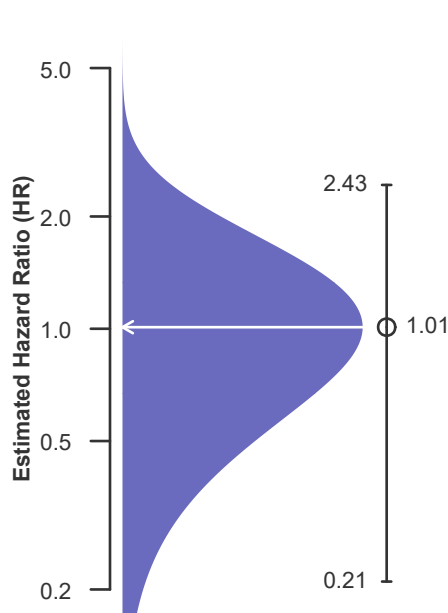
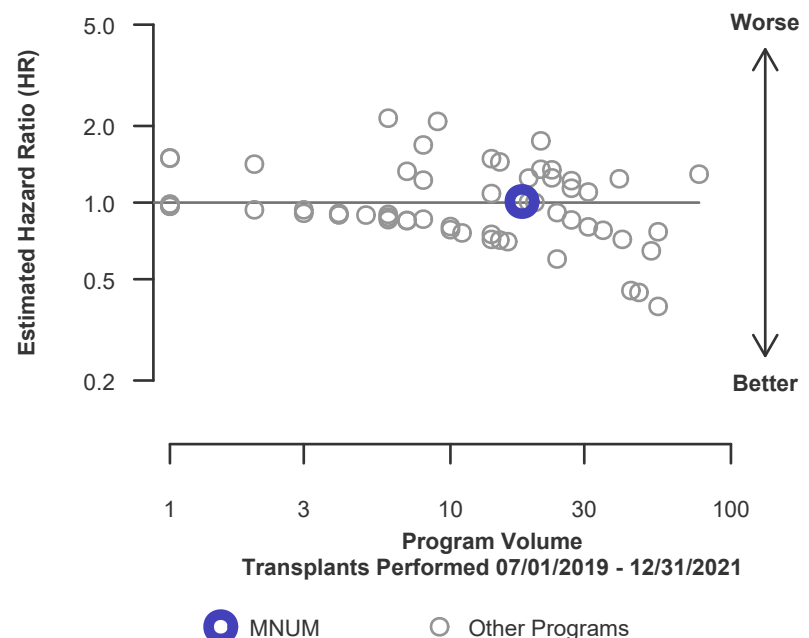


Figure C32. Pediatric (<18) 3-year patient death HR program comparison





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	18	866
Estimated probability of surviving at 3 years & [95% CI] (unadjusted for patient and donor characteristics)	94.44% [84.43%-100.00%]	93.46% [91.65%-95.31%]
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.47%	--
Number of observed deaths during the first 3 years after transplant	1	47
Number of expected deaths during the first 3 years after transplant	0.97	--
Estimated hazard ratio*	1.01	--
95% credible interval for the hazard ratio**	[0.21, 2.43]	--

* The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.21, 2.43], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 1% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 79% reduced risk up to 143% increased risk.

Figure C31D. Pediatric (<18) 3-year patient death HR estimate (deceased donor grafts)

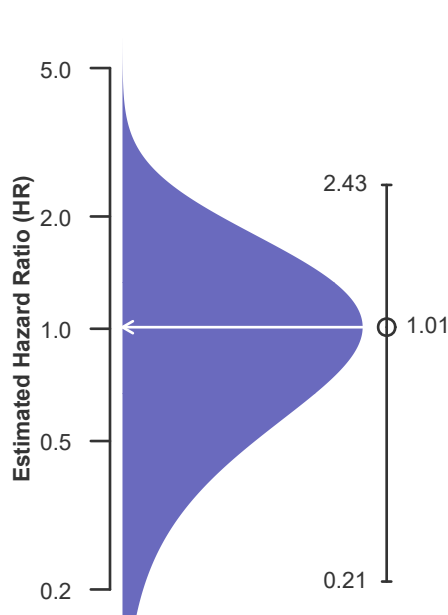
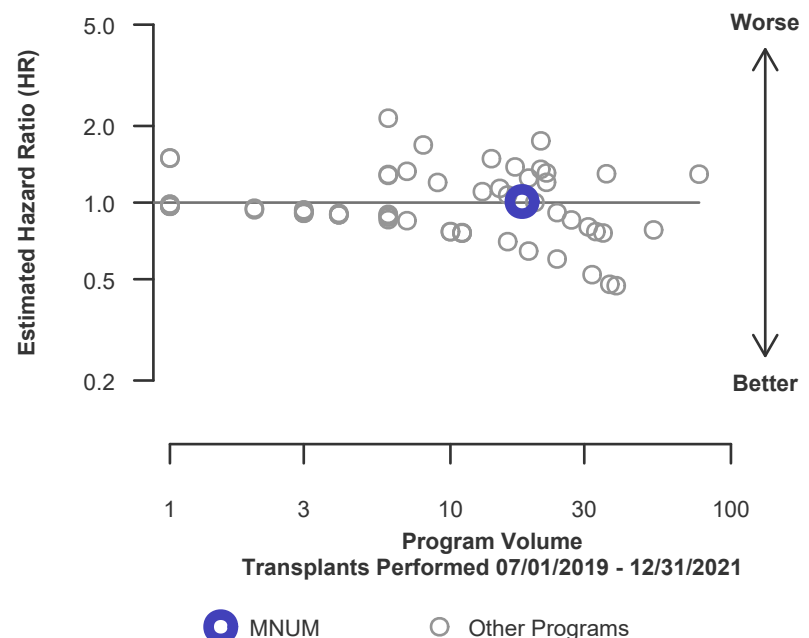


Figure C32D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

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

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

Retransplants excluded

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

This center did not perform any
transplants relevant to
this table during
07/01/2019-12/31/2021

Figure C31L. Pediatric (<18) 3-year patient death HR estimate (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2019-12/31/2021

Figure C32L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2019-12/31/2021



C. Transplant Information

Table C21. Multi-organ transplant graft survival: 01/01/2022 - 06/30/2024

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Liver Graft Failures		Estimated Liver Graft Survival	
	MNUM-TX1	USA	MNUM-TX1	USA	MNUM-TX1	USA
Kidney-Liver	21	1,954	1	187	95.2%	90.4%

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 01/01/2022 - 06/30/2024

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Patient Deaths		Estimated Patient Survival	
	MNUM-TX1	USA	MNUM-TX1	USA	MNUM-TX1	USA
Kidney-Liver	21	1,954	1	176	95.2%	91.0%

Pediatric (<18) Transplants

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



D. Living Donor Information

Table D1. Living donor summary: 01/01/2022 - 12/31/2024

Living Donor Follow-Up	This Center			United States		
	01/2022- 12/2022	01/2023- 12/2023	01/2024- 06/2024	01/2022- 12/2022	01/2023- 12/2023	01/2024- 06/2024
Number of Living Donors	1	3	0	595	652	314
6-Month Follow-Up						
Donors due for follow-up	1	3	0	595	652	268
Timely clinical data	1 100.0%	2 66.7%	0 --%	487 81.8%	550 84.4%	225 84.0%
Timely lab data	0 0.0%	3 100.0%	0 --%	499 83.9%	562 86.2%	224 83.6%
12-Month Follow-Up						
Donors due for follow-up	1	3		595	601	
Timely clinical data	1 100.0%	2 66.7%		484 81.3%	484 80.5%	
Timely lab data	0 0.0%	0 0.0%		479 80.5%	490 81.5%	
24-Month Follow-Up						
Donors due for follow-up	1			557		
Timely clinical data	1 100.0%			398 71.5%		
Timely lab data	1 100.0%			403 72.4%		

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