

SCIENTIFIC University of Minnesota Medical Center, Fairview

REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

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

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

Modifications for the January 2023 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the January 2023 reporting cycle. These changes will remain in force beyond the January 2023 reporting cycle, unless otherwise amended:

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

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 7/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2021, follow-up through 6/30/2022.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2017-6/30/2019; follow-up through 3/12/2020.

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

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Days after listing (and before transplant) between 7/1/2020 and 6/30/2022.

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

Candidates on the waitlist 7/1/2020-6/30/2022.

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

Evaluation period: 7/1/2020-6/30/2022.

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

Offers received 1/1/2021-12/31/2021.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 6, 2023. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for July 2023.

As with the July 2022 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 110.9 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2016 and 12/31/2021. 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 06/30/2022 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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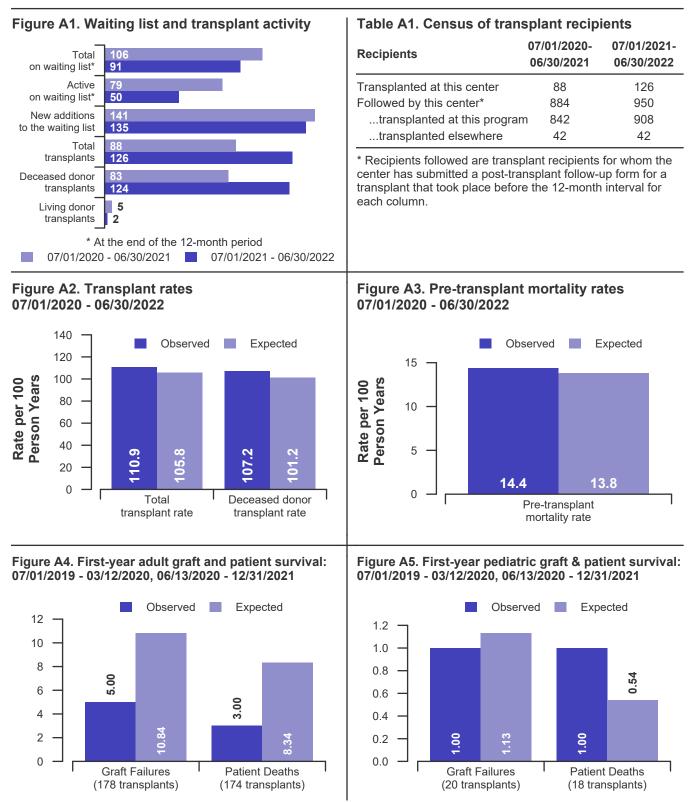
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A. Program Summary





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B. Waiting List Information

Table B1. Waiting list activity summary: 07/01/2020 - 06/30/2022

		its for center	Activity for 07/01/2021 to 06/30/202 as percent of registrants on waiting on 07/01/2021			
Waiting List Registrations	07/01/2020- 06/30/2021	07/01/2021- 06/30/2022	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	83	106	100.0	100.0	100.0	
New listings at this center	141	135	127.4	137.4	113.6	
Removals						
Transferred to another center	2	0	0.0	0.5	1.1	
Received living donor transplant*	5	2	1.9	5.5	5.0	
Received deceased donor transplant*	83	124	117.0	94.2	71.2	
Died	9	12	11.3	7.8	9.6	
Transplanted at another center	2	2	1.9	3.5	2.5	
Deteriorated	8	5	4.7	13.3	9.9	
Recovered	3	4	3.8	14.7	9.4	
Other reasons	6	1	0.9	11.9	9.6	
On waiting list at end of period	106	91	85.8	85.9	95.3	

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



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B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidatesCandidates registered on the waiting list between 07/01/2021 and 06/30/2022

Domographic Characteristic		iting List Regi 021 to 06/30/2		All Waiting List Registrations on 06/30/2022 (%)			
Demographic Characteristic	This Center (N=135)	OPTN Region (N=1,025)	U.S. (N=13,642)	This Center (N=91)	OPTN Region (N=641)	U.S. (N=11,444)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	84.4	75.0	68.4	79.1	74.1	66.1	
African-American	6.7	5.8	6.7	6.6	6.1	7.0	
Hispanic/Latino	2.2	13.0	18.6	4.4	12.8	20.0	
Asian	5.2	4.1	4.4	8.8	3.9	5.2	
Other	1.5	2.1	1.8	1.1	3.1	1.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	6.7	2.1	2.3	1.1	1.6	1.5	
2-11 years	3.0	1.7	1.8	2.2	1.1	1.4	
12-17 years	0.7	1.4	1.3	0.0	0.9	1.1	
18-34 years	5.9	7.6	6.8	7.7	7.0	6.7	
35-49 years	23.0	25.7	20.9	19.8	22.3	19.3	
50-64 years	49.6	43.6	45.5	54.9	47.6	49.8	
65-69 years	9.6	13.6	15.6	12.1	15.4	15.5	
70+ years	1.5	4.4	5.8	2.2	4.1	4.8	
Gender (%)							
Male	57.8	62.0	60.8	63.7	64.1	60.7	
Female	42.2	38.0	39.2	36.3	35.9	39.3	

* 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%.



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B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2021 and 06/30/2022

Medical Characteristic	New Waiting List Registrations 07/01/2021 to 06/30/2022 (%)			All Waiting List Registrations on 06/30/2022 (%)			
	This Center (N=135)	OPTN Region (N=1,025)	U.S. (N=13,642)	This Center (N=91)	OPTN Region (N=641)	U.S. (N=11,444)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	42.2	45.8	47.4	44.0	48.8	49.6	
A	40.7	37.3	36.6	46.2	42.1	38.4	
В	9.6	12.9	12.3	6.6	6.9	10.0	
AB	7.4	4.1	3.7	3.3	2.2	2.1	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	3.7	4.6	4.3	5.5	4.2	3.5	
No	96.3	95.4	95.7	94.5	95.8	96.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	2.2	5.6	5.0	2.2	2.0	1.7	
Non-Cholestatic Cirrhosis	62.2	64.4	67.8	58.2	66.0	69.5	
Cholestatic Liver Disease/Cirrhosis	8.1	7.7	6.7	6.6	8.7	7.7	
Biliary Atresia	3.7	1.8	1.9	1.1	1.7	1.8	
Metabolic Diseases	2.2	2.2	1.9	2.2	0.9	1.5	
Malignant Neoplasms	14.8	10.2	10.8	26.4	14.5	11.7	
Other	6.7	8.0	5.9	3.3	6.1	6.0	
Missing	0.0	0.1	0.0	0.0	0.0	0.0	
Medical Urgency Status/MELD/PEL	.D at Listing	(%)*					
Status 1A	3.7	3.2	2.9	0.0	0.0	0.3	
Status 1B	3.0	0.7	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	1.1	0.5	0.2	
MELD 6-10	8.9	13.1	15.1	20.9	24.5	28.0	
MELD 11-14	6.7	10.4	11.3	19.8	19.7	21.5	
MELD 15-20	16.3	19.0	20.9	28.6	30.3	26.5	
MELD 21-30	34.1	27.9	24.8	20.9	15.9	14.5	
MELD 31-40	17.8	15.0	13.2	2.2	1.7	0.9	
PELD less than or equal to 10	0.7	1.4	1.8	3.3	2.2	2.0	
PELD 11-14	0.0	0.1	0.3	0.0	0.0	0.2	
PELD 15-20	0.7	0.4	0.4	0.0	0.2	0.2	
PELD 21-30	1.5	0.4	0.3	0.0	0.0	0.1	
PELD 31 or greater	0.0	0.0	0.1	0.0	0.0	0.0	
Temporarily Inactive	1.5	4.4	4.7	3.3	4.8	5.4	

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

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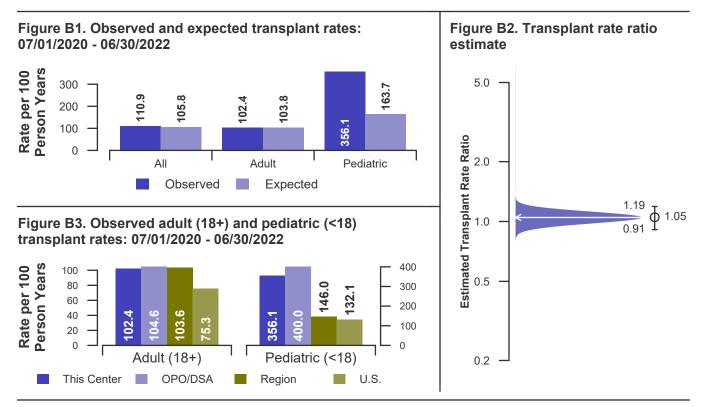
B. Waiting List Information

Table B4. Transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	83	233	805	12,524
Person Years**	193.0	446.4	1,463.7	23,894.1
Removals for Transplant	214	492	1,538	18,440
Adult (18+) Candidates				
Count on waiting list at start*	79	229	779	12,105
Person Years**	186.6	437.9	1,412.3	23,090.7
Removals for transpant	191	458	1,463	17,379
Pediatric (<18) Candidates				
Count on waiting list at start*	4	4	26	419
Person Years**	6.5	8.5	51.4	803.4
Removals for transplant	23	34	75	1,061

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

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





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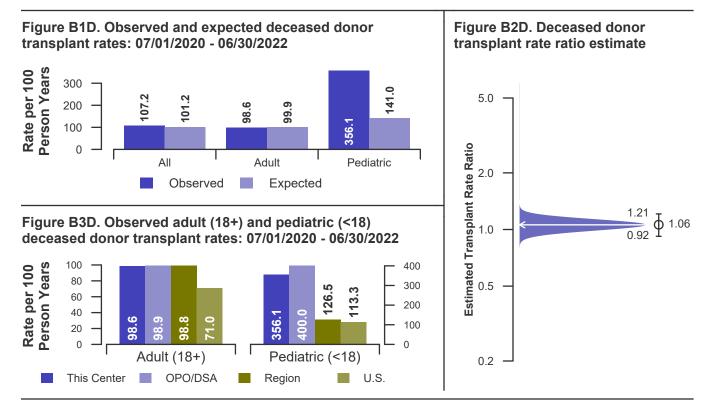
B. Waiting List Information

Table B4D	Deceased donor	transplant rates:	07/01/2020	06/30/2022
I able D4D.	Deceased donor	li alispialit i ales.	01/01/2020	00/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	83	233	805	12,524
Person Years**	193.0	446.4	1,463.7	23,894.1
Removals for Transplant	207	467	1,461	17,303
Adult (18+) Candidates				
Count on waiting list at start*	79	229	779	12,105
Person Years**	186.6	437.9	1,412.3	23,090.7
Removals for transpant	184	433	1,396	16,393
Pediatric (<18) Candidates				
Count on waiting list at start*	4	4	26	419
Person Years**	6.5	8.5	51.4	803.4
Removals for transplant	23	34	65	910

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

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





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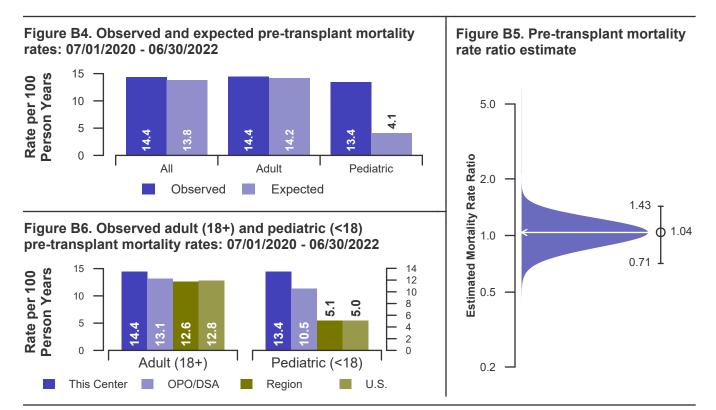
B. Waiting List Information

Table B5. Pre-transplant mortality rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	83	233	805	12,524
Person Years**	208.8	519.5	1,782.0	27,986.3
Number of deaths	30	68	220	3,522
Adult (18+) Candidates				
Count on waiting list at start*	79	229	779	12,105
Person Years**	201.3	510.0	1,722.7	27,094.2
Number of deaths	29	67	217	3,477
Pediatric (<18) Candidates				
Count on waiting list at start*	4	4	26	419
Person Years**	7.5	9.5	59.4	892.1
Number of deaths	1	1	3	45

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

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





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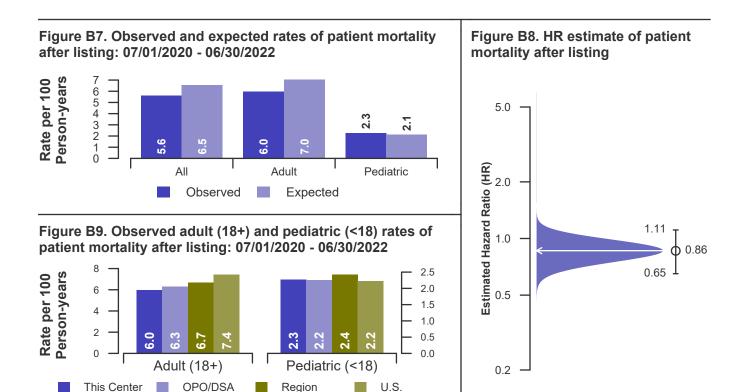
B. Waiting List Information

Table B6. Rates of patient mortality after listing: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	689	1,829	6,065	77,111
Person-years*	909.8	2,449.6	8,251.3	103,731.2
Number of Deaths	51	149	532	7,369
Adult (18+) Patients				
Count at risk during the evaluation period	622	1,729	5,749	72,713
Person-years*	821.5	2,316.0	7,837.4	97,688.5
Number of Deaths	49	146	522	7,235
Pediatric (<18) Patients				
Count at risk during the evaluation period	67	100	316	4,398
Person-years*	88.3	133.6	413.9	6,042.7
Number of Deaths	2	3	10	134

* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2020, or from the date of first wait listing until death, reaching 5 years after listing or June 30, 2022.

** 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.







REGISTRY ⁰⁵ TRANSPLANT RECIPIENTS

Center Code: MNUM Transplant Program (Organ): Liver Release Date: January 5, 2023

Based on Data Available: October 31, 2022

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B. Waiting List Information

Table B7. Waiting list candidate status after listingCandidates registered on waiting list between 01/01/2020 and 12/31/2020

Waiting list status (survival status)		Center (N ns Since L 12	,	U.S. (N=13,025) Months Since Listing 6 12 18		
Alive on waiting list (%)	45.1	26.5	19.5	40.2	24.2	16.4
Died on the waiting list without transplant (%)	6.2	7.1	7.1	4.1	5.3	6.2
Removed without transplant (%):						
Condition worsened (status unknown)	1.8	2.7	3.5	3.9	5.6	6.4
Condition improved (status unknown)	0.0	0.9	1.8	1.3	2.3	3.4
Refused transplant (status unknown)	0.0	0.9	0.9	0.2	0.3	0.5
Other	0.9	1.8	1.8	1.8	3.1	4.2
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.9	1.8	1.8	2.5	3.1	1.8
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	0.0	0.1	0.2
Status Yet Unknown**	0.0	0.0	0.9	0.0	0.1	1.5
Transplant (deceased donor) (%):						
Functioning (alive)	43.4	54.0	38.1	41.8	45.6	32.9
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.4	0.6	0.7
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.9	0.9	0.9	1.9	3.0	4.1
Status Yet Unknown*	0.0	2.7	23.0	1.5	6.2	21.0
Lost or Transferred (status unknown) (%)	0.9	0.9	0.9	0.2	0.4	0.5
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	7.1	8.0	8.0	6.1	8.5	10.5
Total % known died or removed as unstable	8.8	10.6	11.5	10.0	14.0	16.9
Total % removed for transplant	45.1	59.3	64.6	48.2	58.9	62.4
Total % with known functioning transplant (alive)	44.2	55.8	39.8	44.3	48.7	34.7

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



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B. Waiting List Information

Table B7S1. Medical urgency status 1 candidate status after listingCandidates registered on the waiting list between 01/01/2020 and 12/31/2020

Waiting list status (survival status)		s Center (I hs Since I 12	,	U.S. (N=406) Months Since listing 6 12 18		
Alive on waiting list (%)	0.0	0.0	0.0	2.0	1.2	0.5
Died on the waiting list without transplant (%)	33.3	33.3	33.3	6.9	6.9	6.9
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	8.6	8.6	8.6
Condition improved (status unknown)	0.0	0.0	0.0	15.3	16.0	16.7
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	1.2	1.2	1.2
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	2.0	1.7	1.0
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.0	0.0	0.0
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.2	1.0
Transplant (deceased donor) (%):						
Functioning (alive)	66.7	66.7	33.3	53.0	42.4	31.8
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	0.0	0.0	0.0
Died	0.0	0.0	0.0	8.9	10.8	11.1
Status Yet Unknown*	0.0	0.0	33.3	1.0	9.6	20.0
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	33.3	33.3	33.3	15.8	17.7	18.0
Total % known died or removed as unstable	33.3	33.3	33.3	24.4	26.4	26.6
Total % removed for transplant	66.7	66.7	66.7	65.5	65.5	65.5
Total % with known functioning transplant (alive)	66.7	66.7	33.3	54.9	44.1	32.8

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



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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2016 and 06/30/2019

Characteristic		Percent transplanted at time periods since listing This Center United States								
	Ν			2 years	3 years	S N				3 years
All	328	16.8	50.3	60.1	62.5	38,355	20.6	50.8	57.6	59.4
Ethnicity/Race*										
White	245	18.0	52.2	63.7	66.1	26,408	20.6	51.8	58.1	59.8
African-American	27	14.8	44.4	48.1	51.9	3,191	23.6	54.8	61.9	63.3
Hispanic/Latino	12	0.0	33.3	41.7	50.0	6,297	19.2	46.6	54.3	56.3
Asian	30	13.3	53.3	60.0	60.0	1,815	19.2	44.3	53.6	56.0
Other	14	21.4	35.7	35.7	35.7	644	23.0	51.7	57.8	59.2
Unknown	0					0				
Age										
<2 years	16	18.8	81.2	81.2	81.2	883	22.5	71.9	75.4	76.4
2-11 years	8	37.5	87.5	87.5	87.5	687	27.5	70.9	76.9	78.5
12-17 years	6	33.3	50.0	50.0	50.0	440	21.6	56.1	65.5	67.3
18-34 years	23	26.1	60.9	73.9	73.9	2,276	30.7	52.7	58.0	60.0
35-49 years	54	22.2	44.4	53.7	59.3	6,480	29.4	53.7	58.9	60.6
50-64 years	172	14.0	50.0	61.0	63.4	19,635	18.8	49.7	57.0	58.8
65-69 years	42	7.1	35.7	47.6	50.0	6,348	14.1	46.3	54.0	55.9
70+ years	7	28.6	42.9	42.9	42.9	1,606	14.5	46.1	53.6	54.4
Gender										
Male	213	17.4	52.1	63.8	66.7	24,004	20.3	52.0	59.1	60.9
Female	115	15.7	47.0	53.0	54.8	14,351	21.1	48.8	55.1	56.8

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



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B. Waiting List Information

 Table B9. Percent of candidates with deceased donor transplants: medical characteristics

 Candidates registered on the waiting list between 07/01/2016 and 06/30/2019

Characteristic	Percent transplanted at time periods since listing This Center United States									
	Ν	30 day	1 year	2 years	3 years	5 N	30 day	1 year	2 years	3 years
All	328	16.8	50.3	60.1	62.5	38,355	20.6	50.8	57.6	59.4
Blood Type						,				
0	147	15.6	40.1	53.1	56.5	17,814	19.7	48.4	55.8	57.6
A	116	18.1	52.6	59.5	61.2	14,263	19.5	49.2	56.0	57.8
В	47	12.8	63.8	74.5	74.5	4,738	24.0	58.4	64.3	65.9
AB	18	27.8	83.3	83.3	88.9	1,540	30.6	69.8	73.1	74.0
Previous Transplant										
Yes	13	30.8	53.8	69.2	69.2	1,890	30.1	53.3	58.7	60.0
No	315	16.2	50.2	59.7	62.2	36,465	20.1	50.7	57.5	59.3
Primary Disease										
Acute Hepatic Necrosis	16	31.2	50.0	56.2	56.2	1,685	51.4	60.4	63.0	63.7
Non-Cholestatic Cirrhosis	190	17.9	48.4	55.8	59.5	25,427	21.3	49.8	55.8	57.6
Cholestatic Liver	18	22.2	55.6	66.7	66.7	2,622	17.5	50.0	57.8	60.5
Disease/Cirrhosis	10			00.7	00.7	2,022		50.0	57.0	00.5
Biliary Atresia	16	31.2	81.2	87.5	87.5	769	15.7	66.1	72.8	74.5
Metabolic Diseases	11	27.3	81.8	81.8	81.8	937	24.3	67.8	72.8	74.7
Malignant Neoplasms	66	4.5	43.9	63.6	65.2	4,875	7.9	48.1	59.3	60.6
Other	11	9.1	36.4	45.5	45.5	2,026	21.4	50.4	58.4	60.1
Missing	0					14	35.7	42.9	42.9	42.9
Medical Urgency Status/MELD/		at Listin	g*							
Status 1	0					0				
Status 1A	12	41.7	50.0	50.0	50.0	1,186	60.9	61.4	61.5	61.6
Status 1B	0					146	43.8	80.1	80.1	80.1
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	59	0.0	33.9	66.1	66.1	7,477	2.6	38.5	50.4	52.8
MELD 11-14	40	2.5	37.5	42.5	47.5	5,188	2.7	32.7	43.4	46.6
MELD 15-20	66	3.0	39.4	51.5	54.5	8,209	9.1	44.3	52.5	54.9
MELD 21-30	71	8.5	52.1	56.3	62.0	8,641	25.8	60.2	63.8	64.9
MELD 31-40	49	59.2	71.4	71.4	71.4	3,953	69.6	78.5	78.8	79.0
PELD less than or equal to 10	8	37.5	87.5	87.5	87.5	699	10.6	69.5	77.1	79.4
PELD 11-14	2	0.0	100.0	100.0	100.0	104	14.4	74.0	82.7	84.6
PELD 15-20	3	0.0	66.7	66.7	66.7	182	19.2	75.8	78.6	79.1
PELD 21-30	3	33.3	100.0	100.0	100.0	147	29.9	78.2	79.6	79.6
PELD 31 or greater	0					41	58.5	78.0	78.0	78.0
Temporarily Inactive	15	53.3	80.0	80.0	80.0	2,382	36.4	53.6	57.3	58.0

* 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.



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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*Candidates registered on the waiting list between 07/01/2016 and 12/31/2021

	Months to Transplant**					
Percentile	Center	OPO/DSA	Region	U.S.		
5th	0.1	0.1	0.1	0.1		
10th	0.2	0.3	0.2	0.2		
25th	1.1	2.3	1.2	1		
50th (median time to transplant)	7.8	10.1	8.4	7.9		
75th	Not Observed	Not Observed	Not Observed	Not Observed		

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

** Censored on 06/30/2022. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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B. Waiting List Information

Table B11. Offer Acceptance Practices: 07/01/2021 - 06/30/2022

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	1,830	4,287	19,009	291,116
Number of Acceptances	119	223	623	7,600
Expected Acceptances	86.2	169.1	653.8	7,590.3
Offer Acceptance Ratio*	1.37	1.32	0.95	1.00
95% Credible Interval**	[1.14, 1.63]			
PHS increased infectious risk				
Number of Offers	288	704	3,205	47,352
Number of Acceptances	20	35	113	1,412
Expected Acceptances	13.8	30.3	119.0	1,409.4
Offer Acceptance Ratio*	1.39	1.15	0.95	1.00
95% Credible Interval**	[0.87, 2.04]			
DCD donor				
Number of Offers	162	854	4,410	67,073
Number of Acceptances	10	16	60	840
Expected Acceptances	12.4	20.9	72.7	840.4
Offer Acceptance Ratio*	0.83	0.79	0.83	1.00
95% Credible Interval**	[0.43, 1.36]			
HCV+ donor				
Number of Offers	114	266	700	9,973
Number of Acceptances	2	2	17	348
Expected Acceptances	3.4	9.3	22.8	347.3
Offer Acceptance Ratio*	0.74	0.35	0.77	1.00
95% Credible Interval**	[0.20, 1.63]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	923	2,257	9,782	176,466
Number of Acceptances	5	21	55	1,006
Expected Acceptances	5.9	11.7	56.9	1,011.3
Offer Acceptance Ratio*	0.89	1.68	0.97	0.99
95% Credible Interval**	[0.36, 1.66]			
Donor more than 500 miles away				
Number of Offers	732	1,842	6,035	86,457
Number of Acceptances	17	41	76	933
Expected Acceptances	16.3	29.3	74.2	890.8
Offer Acceptance Ratio*	1.04	1.38	1.02	1.05
95% Credible Interval**	[0.62, 1.55]			

* 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 is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer), while a ratio below one indicates the program is less likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a 25% less likely to accept an offer).

** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [1.14, 1.63], indicates the location of MNUM's true offer acceptance ratio with 95% probability. The best estimate is 37% more likely to accept an offer compared to national acceptance behavior, but MNUM's performance could plausibly range from 14% higher acceptance up to 63% higher acceptance.

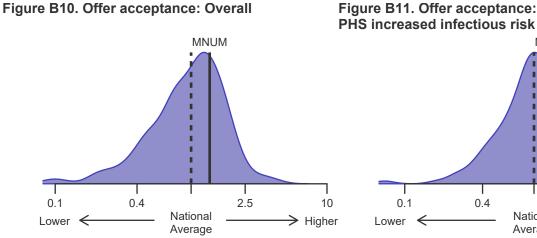
The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.



Center Code: MNUM REGISTRY 약 Transplant Program (Organ): Liver TRANSPLANT Release Date: January 5, 2023 RECIPIENTS Based on Data Available: October 31, 2022

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B. Waiting List Information





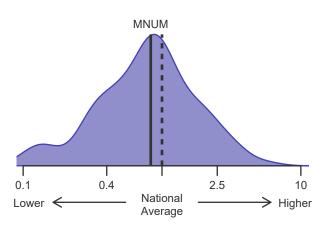
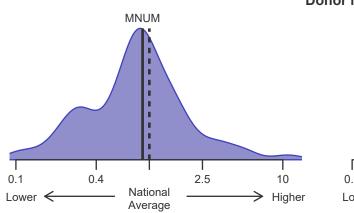


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance:



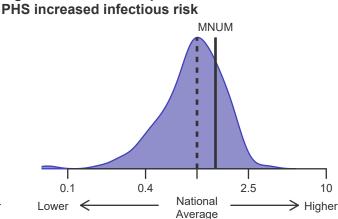
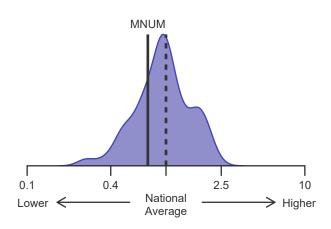
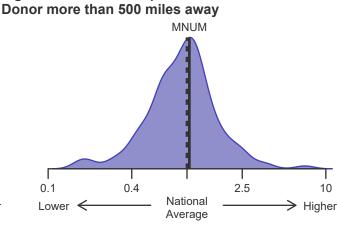


Figure B13. Offer acceptance: HCV+ Donor







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C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Percentage in each category			
Characteristic	Center (N=124)	Region (N=703)	U.S. (N=8,552)	
Ethnicity/Race (%)*				
White	87.1	75.0	68.7	
African-American	5.6	5.8	7.4	
Hispanic/Latino	1.6	12.7	17.7	
Asian	4.8	4.7	4.5	
Other	0.8	1.8	1.8	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	7.3	2.0	1.8	
2-11 years	3.2	2.1	2.1	
12-17	0.8	1.0	1.2	
18-34	6.5	7.0	6.8	
35-49 years	21.0	25.7	21.7	
50-64 years	48.4	44.4	45.5	
65-69 years	7.3	12.8	15.3	
70+ years	5.6	5.0	5.7	
Gender (%)				
Male	60.5	63.2	62.3	
Female	39.5	36.8	37.7	

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



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C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Percentage in each category			
Characteristic	Center (N=2)	Region (N=41)	U.S. (N=595)	
Ethnicity/Race (%)*				
White	50.0	80.5	72.4	
African-American	50.0	9.8	6.2	
Hispanic/Latino	0.0	4.9	16.8	
Asian	0.0	2.4	3.5	
Other	0.0	2.4	1.0	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	9.8	8.7	
2-11 years	0.0	2.4	4.7	
12-17	0.0	0.0	1.0	
18-34	50.0	14.6	11.6	
35-49 years	50.0	19.5	19.7	
50-64 years	0.0	43.9	33.4	
65-69 years	0.0	9.8	15.5	
70+ years	0.0	0.0	5.4	
Gender (%)				
Male	0.0	39.0	48.9	
Female	100.0	61.0	51.1	

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



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C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Percentage in each category			
Characteristic	Center (N=124)	Region (N=703)	Ú.S. (N=8,552)	
Blood Type (%)				
0	38.7	42.2	45.6	
A	41.1	38.1	35.9	
В	11.3	14.5	13.8	
AB	8.9	5.1	4.6	
Previous Transplant (%)				
Yes	2.4	3.8	4.4	
No	97.6	96.2	95.6	
Body Mass Index (%)				
0-20	12.9	10.8	10.8	
21-25	17.7	24.0	26.7	
26-30	18.5	26.2	29.6	
31-35	12.1	19.2	18.7	
36-40	9.7	8.8	8.5	
41+	4.8	4.7	3.8	
Unknown	24.2	6.3	1.9	
Primary Disease (%)	24.2	0.5	1.5	
Acute Hepatic Necrosis	2.4	5.7	5.6	
Non-Cholestatic Cirrhosis	2.4 58.1			
		63.9	66.2	
Cholestatic Liver Disease/Cirrhosis	8.1	7.8	6.5	
Biliary Atresia	4.0	1.8	1.8	
Metabolic Diseases	3.2	3.6	2.4	
Malignant Neoplasms	16.9	11.7	12.3	
Other	7.3	5.5	5.2	
Missing	0.0	0.0	0.0	
Medical Urgency Statust/MELD/PELD at Transplant (%)*				
Status 1A	5.6	3.7	3.2	
Status 1B	4.0	1.6	1.1	
MELD 6-10	10.5	8.3	10.4	
MELD 11-14	6.5	7.0	6.5	
MELD 15-20	9.7	12.4	15.4	
MELD 21-30	36.3	37.0	29.7	
MELD 31-40	21.0	22.9	24.5	
PELD less than or equal to 10	0.0	1.0	1.1	
PELD 11-14	0.0	0.0	0.2	
PELD 15-20	0.8	0.6	0.4	
PELD 21-30	0.0	0.0	0.3	
PELD 31 or greater	0.8	0.1	0.3	
Temporarily Inactive	0.0	0.0	0.0	
Recipient Medical Condition at Transplant (%)	0.0	0.0	0.0	
Not Hospitalized	77.4	61.9	57.1	
Hospitalized	21.0	25.3	26.3	
	<u> </u>	20.0		
ICU	1.6	12.8	16.6	

* 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

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



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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Percentage in each category			
Characteristic	Center (N=2)	Region (N=41)	U.S. (N=595)	
Blood Type (%)				
0	50.0	39.0	45.9	
A	0.0	41.5	42.0	
В	50.0	17.1	9.9	
AB	0.0	2.4	2.2	
Previous Transplant (%)				
Yes	0.0	2.4	1.5	
No	100.0	97.6	98.5	
Body Mass Index (%)				
0-20	0.0	17.1	21.7	
21-25	50.0	51.2	33.1	
26-30	50.0	24.4	28.1	
31-35	0.0	7.3	10.1	
36-40	0.0	0.0	4.5	
41+	0.0	0.0	1.3	
Unknown	0.0	0.0	1.2	
Primary Disease (%)				
Acute Hepatic Necrosis	0.0	2.4	2.5	
Non-Cholestatic Cirrhosis	0.0	39.0	47.6	
Cholestatic Liver Disease/Cirrhosis	50.0	31.7	21.7	
Biliary Atresia	0.0	7.3	10.8	
Metabolic Diseases	0.0	2.4	2.0	
Malignant Neoplasms	0.0	9.8	10.4	
Other	50.0	7.3	5.0	
Missing	0.0	0.0	0.0	
Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0.0	
Status 1A	0.0	2.4	1.0	
Status 1B	0.0	0.0	0.7	
MELD 6-10	0.0	31.7	25.7	
MELD 11-14	50.0	14.6	17.3	
MELD 15-20	50.0	36.6	28.1	
MELD 21-30	0.0	4.9	12.6	
MELD 31-40	0.0	0.0	1.2	
PELD less than or equal to 10	0.0	4.9	5.0	
PELD 11-14	0.0	0.0	1.3	
PELD 15-20	0.0	2.4	2.9	
PELD 21-30	0.0	2.4	1.8	
PELD 31 or greater	0.0	0.0	0.8	
Temporarily Inactive	0.0	0.0	1.5	
Recipient Medical Condition at Transplant (%)	0.0	0.0	1.0	
Not Hospitalized	100.0	90.2	88.7	
Hospitalized	0.0	4.9	7.9	
ICU	0.0	4.9	3.4	
Unknown	0.0	4.9 0.0	0.0	
UTIKHUWIT	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

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



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C. Transplant Information

Table C3D. Deceased donor characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category			
Donor Characteristic	Center (N=124)	Region (N=703)	U.S. (N=8,552)	
Cause of Death (%)				
Deceased: Stroke	22.6	24.6	25.4	
Deceased: MVA	15.3	12.5	13.0	
Deceased: Other	62.1	62.9	61.6	
Ethnicity/Race (%)*				
White	80.6	71.3	61.4	
African-American	7.3	18.9	18.7	
Hispanic/Latino	3.2	6.0	15.9	
Asian	3.2	2.6	2.8	
Other	5.6	1.3	1.2	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	4.0	1.0	0.8	
2-11 years	3.2	1.6	2.4	
12-17	3.2	4.7	4.5	
18-34	23.4	26.7	31.7	
35-49 years	32.3	29.7	29.9	
50-64 years	27.4	25.9	23.6	
65-69 years	5.6	5.0	4.1	
70+ years	0.8	5.4	3.0	
Gender (%)				
Male	68.5	65.1	63.7	
Female	31.5	34.9	36.3	
Blood Type (%)				
0	41.9	44.1	49.2	
A	39.5	39.0	36.3	
В	12.1	13.9	11.9	
AB	6.5	3.0	2.6	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C3L. Living donor characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category			
Donor Characteristic	Center (N=2)	Region (N=41)	U.S. (N=595)	
Ethnicity/Race (%)*				
White	100.0	87.8	77.1	
African-American	0.0	4.9	4.5	
Hispanic/Latino	0.0	4.9	14.3	
Asian	0.0	2.4	3.5	
Other	0.0	0.0	0.5	
Not Reported	0.0	0.0	0.0	
Age (%)				
0-11 years	0.0	0.0	0.2	
12-17	0.0	0.0	0.5	
18-34	50.0	46.3	43.0	
35-49 years	50.0	41.5	43.7	
50-64 years	0.0	12.2	12.4	
65-69 years	0.0	0.0	0.2	
70+ years	0.0	0.0	0.0	
Gender (%)				
Male	0.0	36.6	44.5	
Female	100.0	63.4	55.5	
Blood Type (%)				
0	100.0	65.9	64.5	
A	0.0	22.0	28.6	
В	0.0	12.2	5.9	
AB	0.0	0.0	1.0	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C4D. Deceased donor transplant characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category			
Transplant Characteristic	Center (N=124)	Region (N=703)	U.S. (N=8,552)	
Cold Ischemic Time (Hours): Local (%)				
Deceased: 0-5 hr	63.8	72.0	67.7	
Deceased: 6-10 hr	36.2	26.1	28.4	
Deceased: 11-15 hr	0.0	1.1	1.9	
Deceased: 16-20 hr	0.0	0.0	0.4	
Deceased: 21+ hr	0.0	0.0	0.0	
Not Reported	0.0	0.8	1.5	
Cold Ischemic Time (Hours): Shared (%)				
Deceased: 0-5 hr	18.2	51.4	44.4	
Deceased: 6-10 hr	81.8	45.5	50.9	
Deceased: 11-15 hr	0.0	2.0	3.1	
Deceased: 16-20 hr	0.0	0.2	0.5	
Deceased: 21+ hr	0.0	0.2	0.2	
Not Reported	0.0	0.7	1.0	
Procedure Type (%)				
Single organ	96.8	89.5	89.6	
Multi organ	3.2	10.5	10.4	
Donor Location (%)				
Local Donation Service Area (DSA)	46.8	37.1	35.0	
Another Donation Service Area (DSA)	53.2	62.9	65.0	
Median Time in Hospital After Transplant	13.0 Days	10.0 Days	10.0 Days	



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C. Transplant Information

Table C4L. Living donor transplant characteristicsTransplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category			
Transplant Characteristic	Center (N=2)	Region (N=41)	U.S. (N=595)	
Relation with Donor (%)				
Related	0.0	41.5	54.8	
Unrelated	100.0	58.5	42.7	
Not Reported	0.0	0.0	2.5	
Procedure Type (%)				
Single organ	100.0	100.0	99.8	
Multi organ	0.0	0.0	0.2	
Median Time in Hospital After Transplant	17.5 Days	9.0 Days	10.0 Days	





Center Code: MNUM REGISTRY OF Transplant Program (Organ): Liver TRANSPLANT Release Date: January 5, 2023 RECIPIENTS

Based on Data Available: October 31, 2022

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C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft

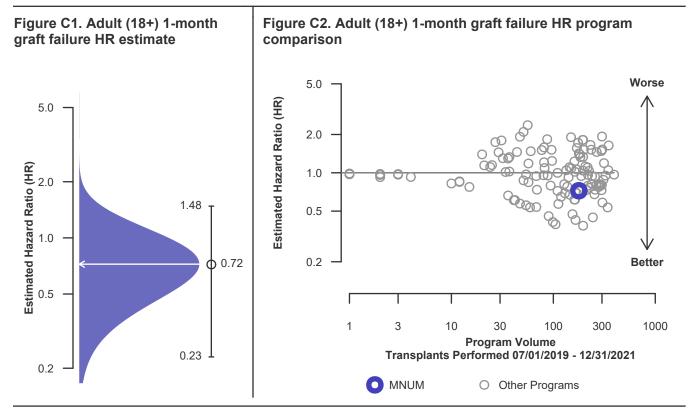
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 month (unadjusted for patient and donor characteristics)	98.29%	96.74%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.15%	
Number of observed graft failures (including deaths) during the first month after transplant	3	562
Number of expected graft failures (including deaths) during the first month after transplant	4.92	
Estimated hazard ratio*	0.72	
95% credible interval for the hazard ratio**	[0.23, 1.48]	

* 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, [0.23, 1.48], 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 77% reduced risk up to 48% increased risk.







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C. Transplant Information

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

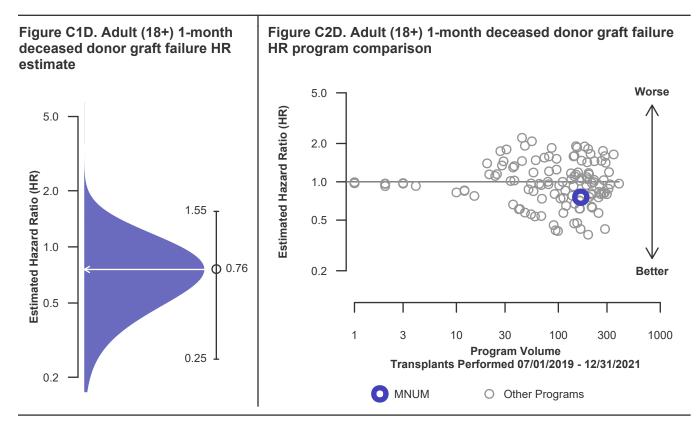
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 month (unadjusted for patient and donor characteristics)	98.17%	96.69%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.13%	
Number of observed graft failures (including deaths) during the first month after transplant	3	535
Number of expected graft failures (including deaths) during the first month after transplant	4.61	
Estimated hazard ratio*	0.76	
95% credible interval for the hazard ratio**	[0.25, 1.55]	

* 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, [0.25, 1.55], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 24% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 75% reduced risk up to 55% increased risk.







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C. Transplant Information

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

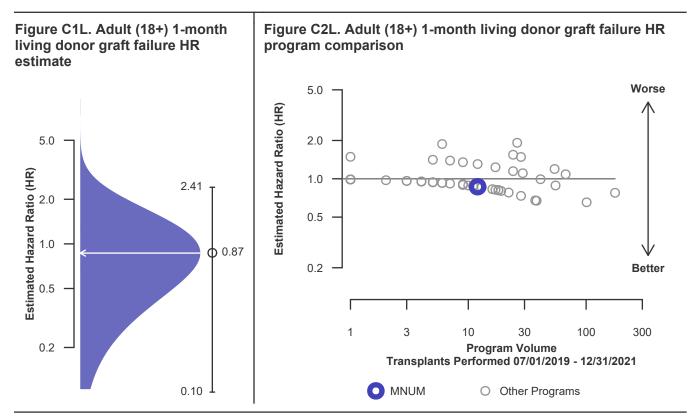
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 month (unadjusted for patient and donor characteristics)	100.00%	97.45%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.45%	
Number of observed graft failures (including deaths) during the first month after transplant	0	27
Number of expected graft failures (including deaths) during the first month after transplant	0.31	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.10, 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, [0.10, 2.41], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 90% reduced risk up to 141% increased risk.







Center Code: MNUM REGISTRY OF Transplant Program (Organ): Liver TRANSPLANT Release Date: January 5, 2023 RECIPIENTS

Based on Data Available: October 31, 2022

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C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graft

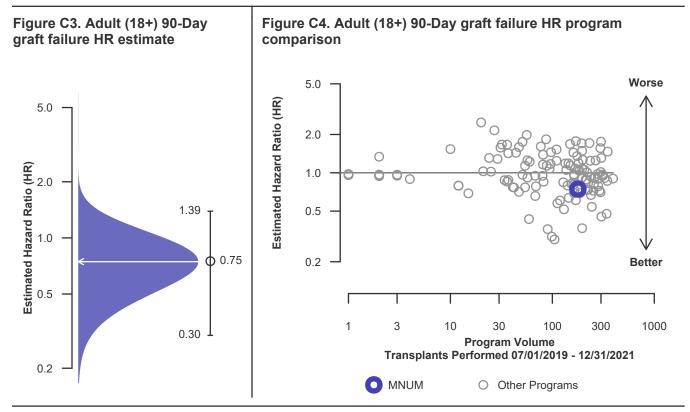
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 90 days (unadjusted for patient and donor characteristics)	97.08%	95.20%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.61%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	5	811
Number of expected graft failures (including deaths) during the first 90 days after transplant	7.39	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.30, 1.39]	

* 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 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, 1.39], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 25% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 70% reduced risk up to 39% increased risk.







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C. Transplant Information

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

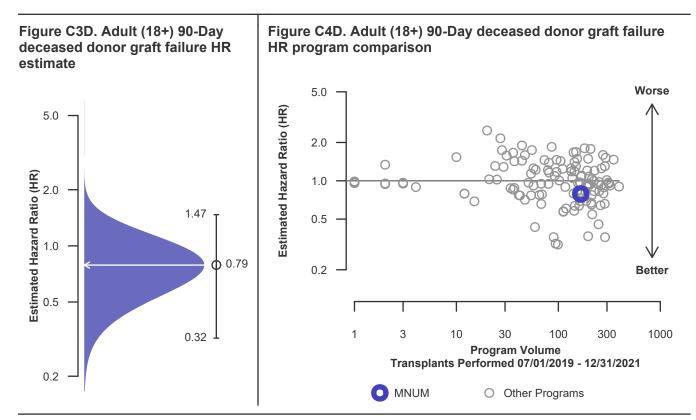
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 90 days (unadjusted for patient and donor characteristics)	96.87%	95.17%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.61%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	5	766
Number of expected graft failures (including deaths) during the first 90 days after transplant	6.87	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.32, 1.47]	

* 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, [0.32, 1.47], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 68% reduced risk up to 47% increased risk.







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C. Transplant Information

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

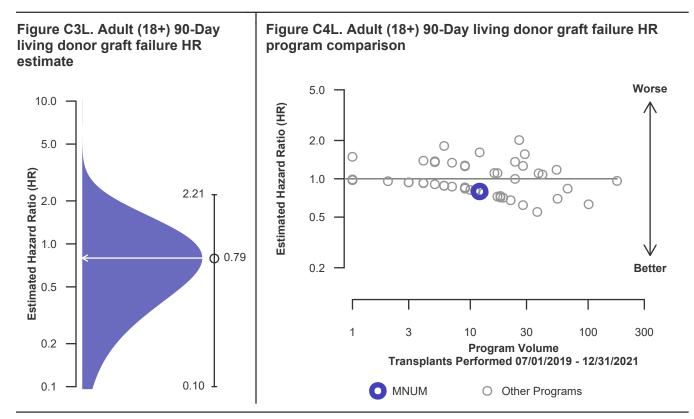
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 90 days (unadjusted for patient and donor characteristics)	100.00%	95.62%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.63%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	0	45
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.52	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.10, 2.21]	

* 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, [0.10, 2.21], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 90% reduced risk up to 121% increased risk.







REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
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C. Transplant Information

RECIPIENTS

Table C7. Adult (18+) 1-year survival with a functioning graft

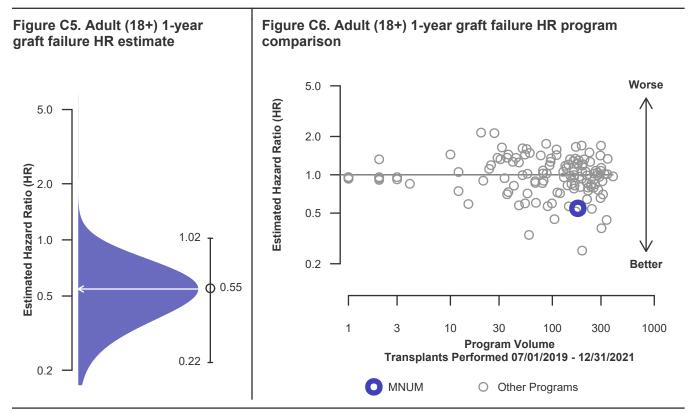
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 year (unadjusted for patient and donor characteristics)	97.08%	91.89%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.42%	
Number of observed graft failures (including deaths) during the first year after transplant	5	1,183
Number of expected graft failures (including deaths) during the first year after transplant	10.84	
Estimated hazard ratio*	0.55	
95% credible interval for the hazard ratio**	[0.22, 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 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, 1.02], 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 78% reduced risk up to 2% increased risk.







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C. Transplant Information

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

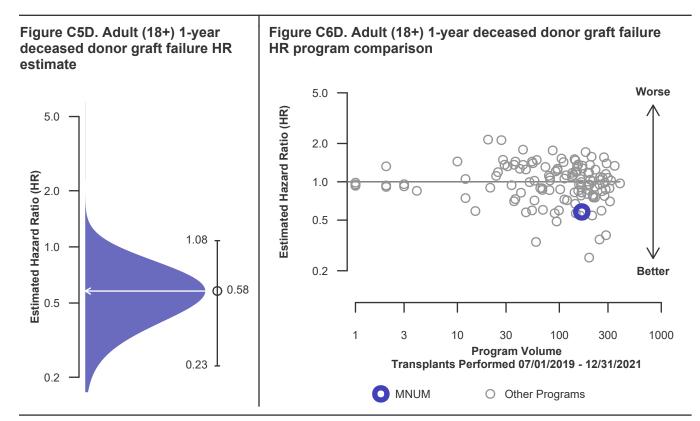
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 year (unadjusted for patient and donor characteristics)	96.87%	91.89%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.46%	
Number of observed graft failures (including deaths) during the first year after transplant	5	1,115
Number of expected graft failures (including deaths) during the first year after transplant	10.08	
Estimated hazard ratio*	0.58	
95% credible interval for the hazard ratio**	[0.23, 1.08]	

* 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, [0.23, 1.08], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 42% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 77% reduced risk up to 8% increased risk.







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C. Transplant Information

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

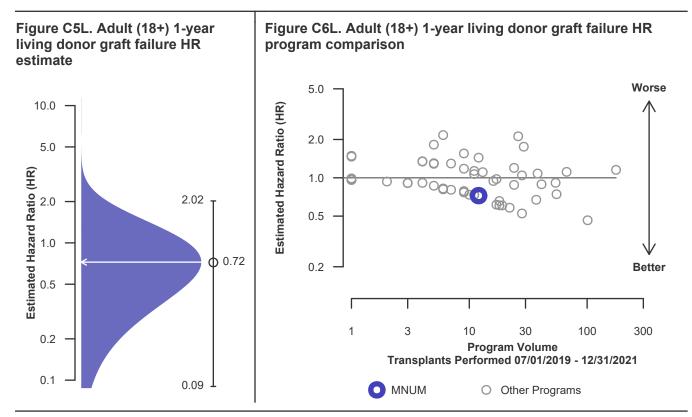
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 year (unadjusted for patient and donor characteristics)	100.00%	91.96%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.96%	
Number of observed graft failures (including deaths) during the first year after transplant	0	68
Number of expected graft failures (including deaths) during the first year after transplant	0.76	
Estimated hazard ratio*	0.72	
95% credible interval for the hazard ratio**	[0.09, 2.02]	

* 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 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, [0.09, 2.02], 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 91% reduced risk up to 102% increased risk.







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C. Transplant Information

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

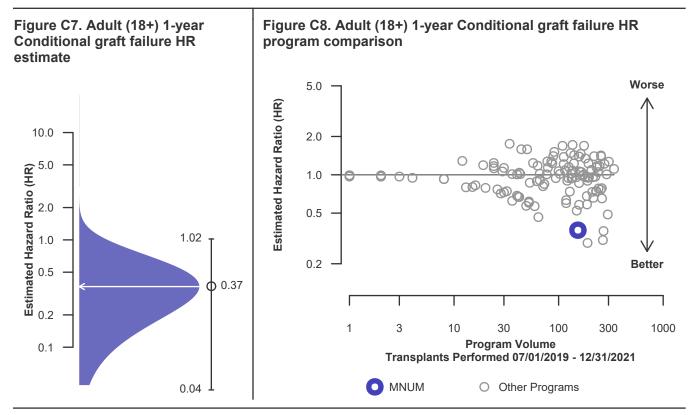
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	153	14,768
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		96.53%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.66%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	372
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	3.45	
Estimated hazard ratio*	0.37	
95% credible interval for the hazard ratio**	[0.04, 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 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, [0.04, 1.02], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 63% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 96% reduced risk up to 2% increased risk.







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C. Transplant Information

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

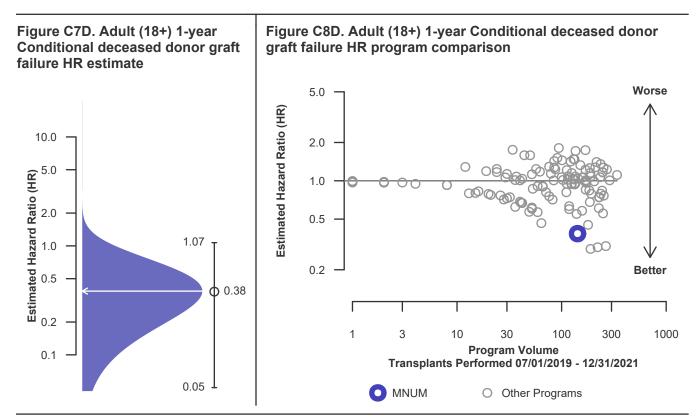
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	142	13,847
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		96.55%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.70%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	349
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	3.20	
Estimated hazard ratio*	0.38	
95% credible interval for the hazard ratio**	[0.05, 1.07]	

* 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, [0.05, 1.07], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 62% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 95% reduced risk up to 7% increased risk.







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C. Transplant Information

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

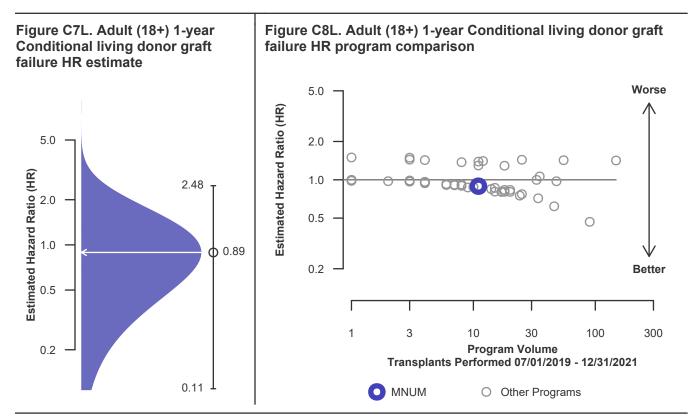
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	11	921
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	96.17%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.17%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	23
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.25	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.48]	

* 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, 2.48], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 11% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 89% reduced risk up to 148% increased risk.







REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023

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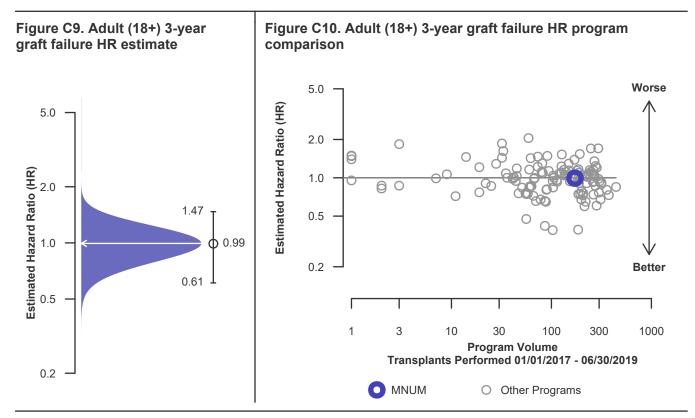
C. Transplant Information

Table C9. Adult (18+) 3-year survival with a functioning graftSingle organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failuresFollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	MNUM	U.S.
Number of transplants evaluated	172	17,385
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	88.35%	86.50%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.43%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	18	1,862
Number of expected graft failures (including deaths) during the first 3 years after transplant	18.14	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.61, 1.47]	

* 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, [0.61, 1.47], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 39% reduced risk up to 47% increased risk.







REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): LiverRelease Date: January 5, 2023

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C. Transplant Information

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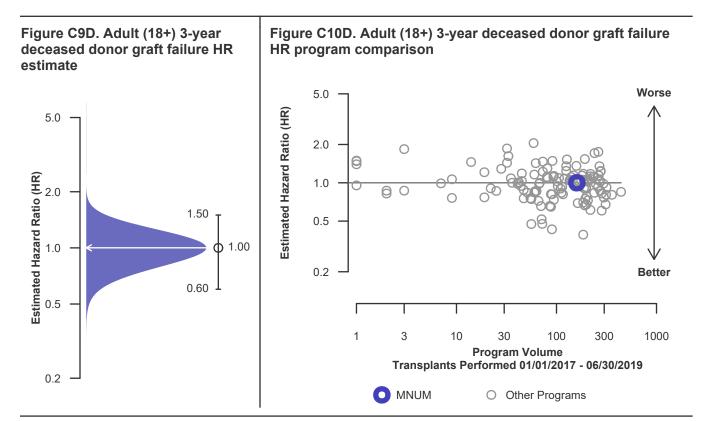
Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2017 and 06/30/2019 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	160	16,540
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	88.10%	86.48%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.40%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	17	1,780
Number of expected graft failures (including deaths) during the first 3 years after transplant	16.98	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.60, 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, [0.60, 1.50], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 0% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 40% reduced risk up to 50% increased risk.







REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): LiverRelease Date: January 5, 2023

RECIPIENTS Based on Data Available: October 31, 2022

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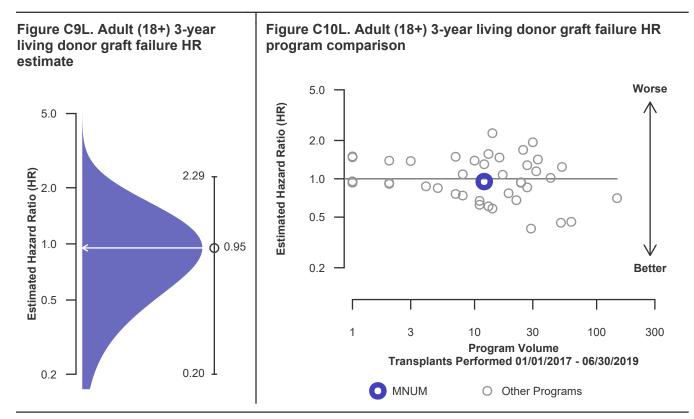
C. Transplant Information

Table C9L. Adult (18+) 3-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2017 and 06/30/2019 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	845
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	91.67%	86.84%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.86%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	82
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.15	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.20, 2.29]	

* 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, [0.20, 2.29], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 80% reduced risk up to 129% increased risk.







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C. Transplant Information

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

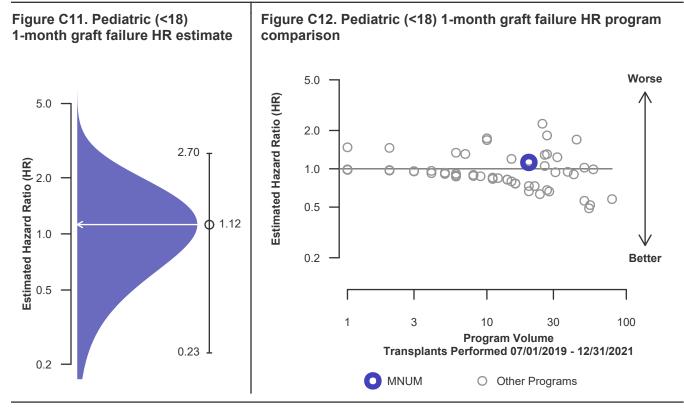
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 month (unadjusted for patient and donor characteristics)	95.00%	96.27%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.61%	
Number of observed graft failures (including deaths) during the first month after transplant	1	41
Number of expected graft failures (including deaths) during the first month after transplant	0.67	
Estimated hazard ratio*	1.12	
95% credible interval for the hazard ratio**	[0.23, 2.70]	

* 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, [0.23, 2.70], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 12% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 77% reduced risk up to 170% increased risk.





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C. Transplant Information

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

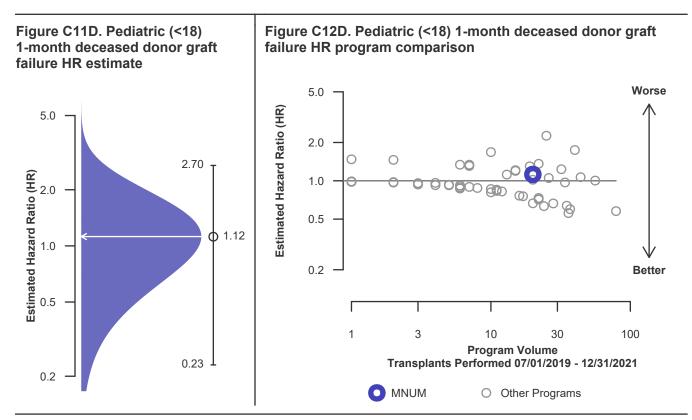
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 month (unadjusted for patient and donor characteristics)	95.00%	96.09%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.61%	
Number of observed graft failures (including deaths) during the first month after transplant	1	36
Number of expected graft failures (including deaths) during the first month after transplant	0.67	
Estimated hazard ratio*	1.12	
95% credible interval for the hazard ratio**	[0.23, 2.70]	

* 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, [0.23, 2.70], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 12% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 77% reduced risk up to 170% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021Deaths and retransplants are considered graft failuresFollow-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 C11L. Pediatric (<18) 1-month living donor graft failure HR estimate	Figure C12L. Pediatric (<18) 1-month living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2019-12/31/2021	07/01/2019-12/31/2021





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C. Transplant Information

Table C11. Pediatric (<18) 90-Day survival with a functioning graft

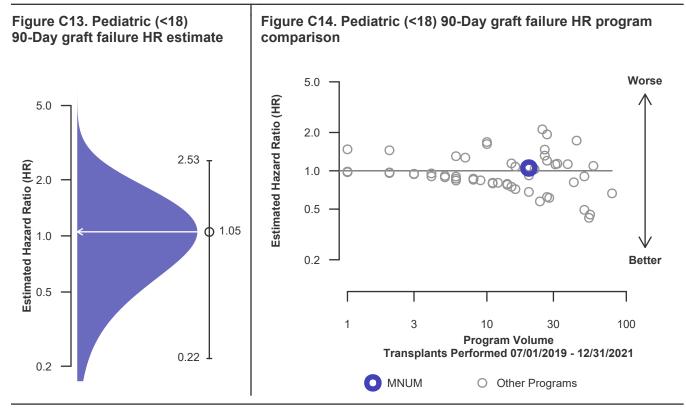
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 90 days (unadjusted for patient and donor characteristics)	95.00%	95.20%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.68%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	52
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.85	
Estimated hazard ratio*	1.05	
95% credible interval for the hazard ratio**	[0.22, 2.53]	

* 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, 2.53], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 5% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 78% reduced risk up to 153% increased risk.







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C. Transplant Information

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

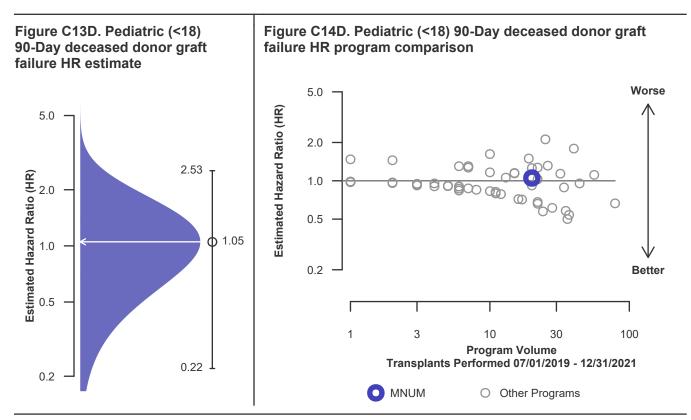
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 90 days (unadjusted for patient and donor characteristics)	95.00%	95.05%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.68%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	45
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.85	
Estimated hazard ratio*	1.05	
95% credible interval for the hazard ratio**	[0.22, 2.53]	

* 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, 2.53], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 5% higher risk of graft failure compared to an average program, but MNUM's performance could plausibly range from 78% reduced risk up to 153% increased risk.





Center Code: MNUM REGISTRY OF Transplant Program (Organ): Liver TRANSPLANT Release Date: January 5, 2023 RECIPIENTS

Based on Data Available: October 31, 2022

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C. Transplant Information

Table C11L. Pediatric (<18) 90-Day 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 C13L. Pediatric (<18) 90-Day living donor graft failure HR estimate	Figure C14L. Pediatric (<18) 90-Day living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2019-12/31/2021	07/01/2019-12/31/2021





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C. Transplant Information

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

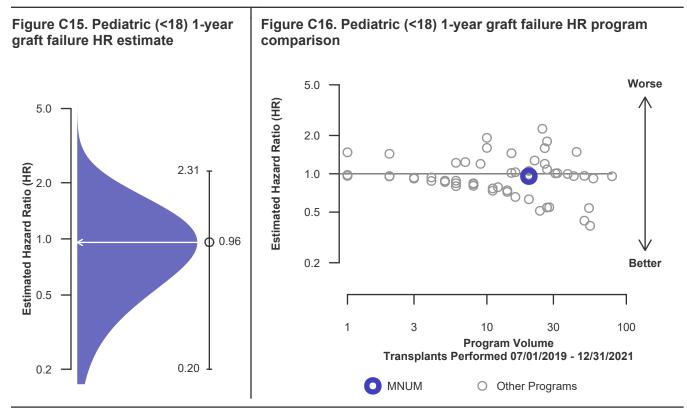
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 year (unadjusted for patient and donor characteristics)	95.00%	93.12%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.40%	
Number of observed graft failures (including deaths) during the first year after transplant	1	66
Number of expected graft failures (including deaths) during the first year after transplant	1.13	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.20, 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, [0.20, 2.31], 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 80% reduced risk up to 131% increased risk.







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C. Transplant Information

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

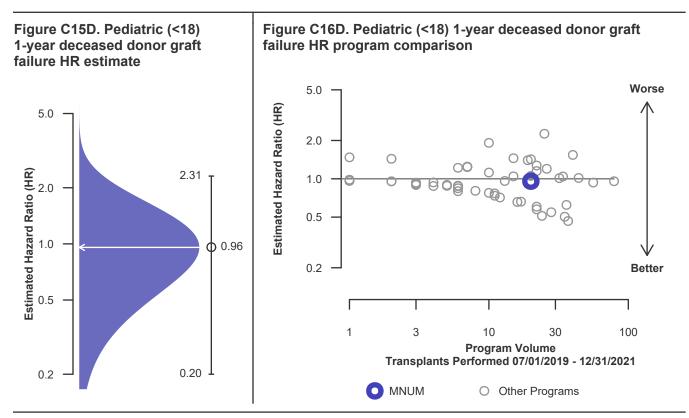
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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 1 year (unadjusted for patient and donor characteristics)	95.00%	92.79%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.40%	
Number of observed graft failures (including deaths) during the first year after transplant	1	58
Number of expected graft failures (including deaths) during the first year after transplant	1.13	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.20, 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, [0.20, 2.31], 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 80% reduced risk up to 131% increased risk.





REGISTRY OF
TRANSPLANTCenter Code: MNUM
Transplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021Deaths and retransplants are considered graft failuresFollow-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 C15L. Pediatric (<18) 1-year living donor graft failure HR estimate	Figure C16L. Pediatric (<18) 1-year living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2019-12/31/2021	07/01/2019-12/31/2021





Based on Data Available: October 31, 2022

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

C. Transplant Information

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

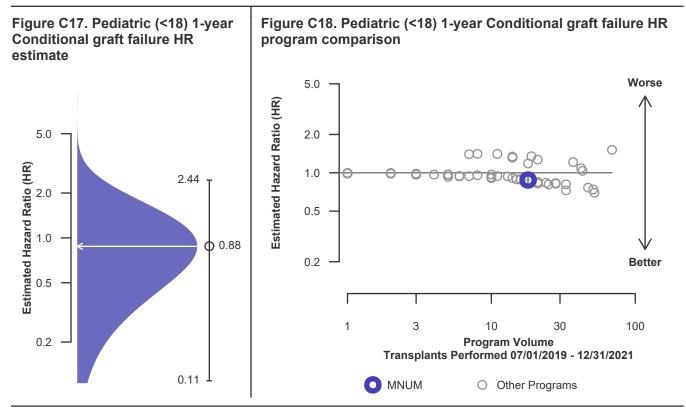
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	18	935
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		97.82%
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)	97.62%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	14
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.28	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.44]	

* 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, 2.44], 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 144% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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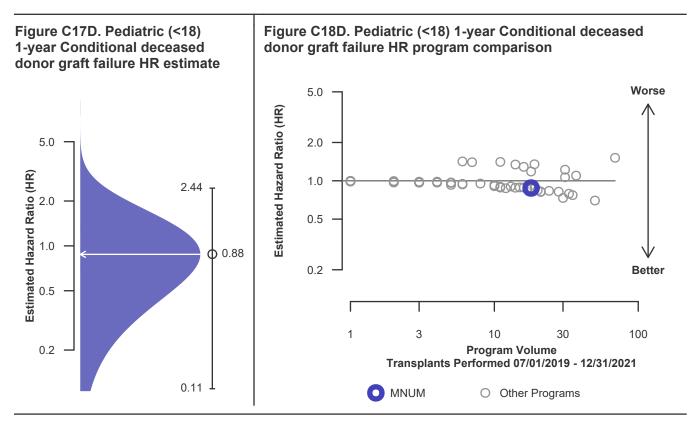
C. Transplant Information

Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 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 18 786 Estimated probability of surviving with a functioning graft at 1 year, among patients 100.00% 97.62% with a functioning graft at day 90 (unadjusted for patient and donor characteristics) Expected probability of surviving with a functioning graft at 1 year, among patients 97.62% with a functioning graft at day 90 (adjusted for patient and donor characteristics) Number of observed graft failures (including deaths) 0 13 from day 91 through day 365 after transplant Number of expected graft failures (including deaths) 0.28 from day 91 through day 365 after transplant Estimated hazard ratio* 0.88 95% credible interval for the hazard ratio** [0.11, 2.44]

* 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, 2.44], 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 144% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 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 C17L. Pediatric (<18) 1-year Conditional living donor graft failure HR estimate	Figure C18L. Pediatric (<18) 1-year Conditional living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2019-12/31/2021	07/01/2019-12/31/2021



REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023

RECIPIENTS Based on Data Available: October 31, 2022

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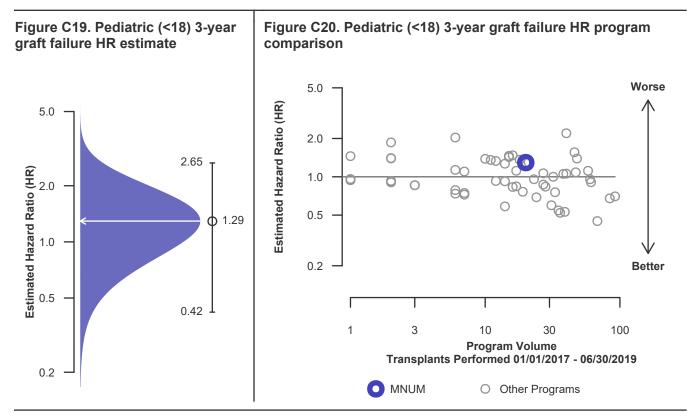
C. Transplant Information

Table C14. Pediatric (<18) 3-year survival with a functioning graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failuresFollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	MNUM	U.S.
Number of transplants evaluated	20	1,348
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	83.57%	88.57%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.98%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	129
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.87	
Estimated hazard ratio*	1.29	
95% credible interval for the hazard ratio**	[0.42, 2.65]	

* 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, [0.42, 2.65], 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 58% reduced risk up to 165% increased risk.







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C. Transplant Information

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

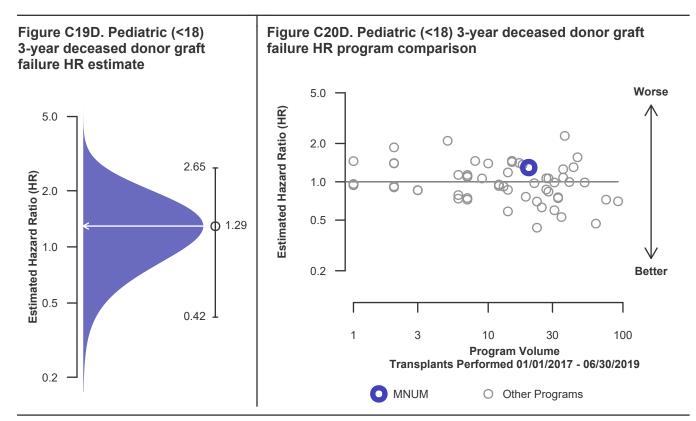
Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

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

	MNUM	U.S.
Number of transplants evaluated	20	1,178
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	83.57%	87.97%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.98%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	117
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.87	
Estimated hazard ratio*	1.29	
95% credible interval for the hazard ratio**	[0.42, 2.65]	

* 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, [0.42, 2.65], 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 58% reduced risk up to 165% increased risk.





REGISTRY OFCenter Code: MNUM
Transplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2017 and 06/30/2019 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 01/01/2017-06/30/2019

Figure C19L. Pediatric (<18) 3-year living donor graft failure HR estimate	Figure C20L. Pediatric (<18) 3-year living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

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

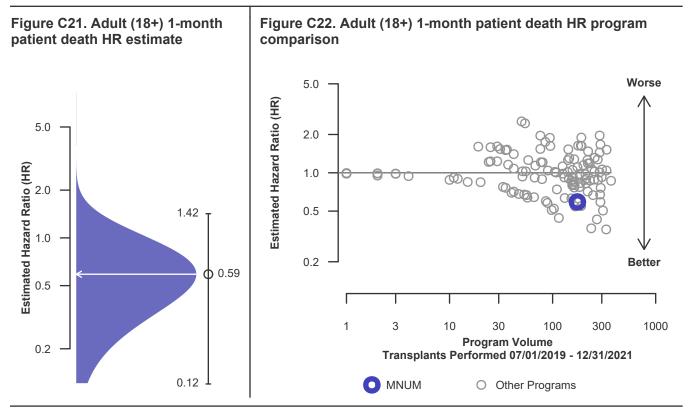
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

· · · · ·	MNUM	U.S.
Number of transplants evaluated	174	16,850
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.43%	98.01%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.18%	
Number of observed deaths during the first month after transplant	1	332
Number of expected deaths during the first month after transplant	3.08	
Estimated hazard ratio*	0.59	
95% credible interval for the hazard ratio**	[0.12, 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 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, 1.42], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 41% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 88% reduced risk up to 42% increased risk.





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C. Transplant Information

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

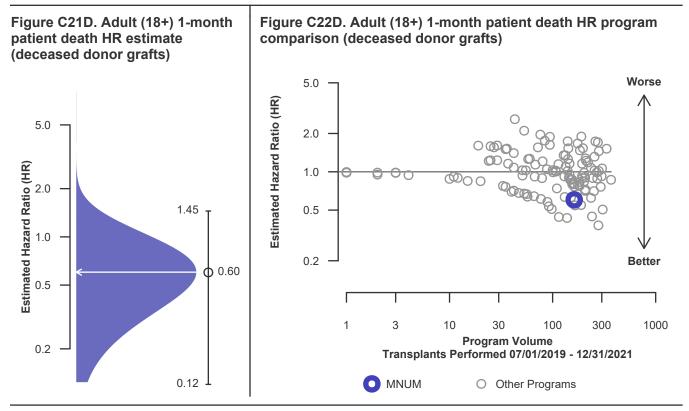
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	162	15,791
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.38%	97.93%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.11%	
Number of observed deaths during the first month after transplant	1	323
Number of expected deaths during the first month after transplant	2.98	
Estimated hazard ratio*	0.60	
95% credible interval for the hazard ratio**	[0.12, 1.45]	

* 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 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, 1.45], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 40% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 88% reduced risk up to 45% increased risk.





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C. Transplant Information

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

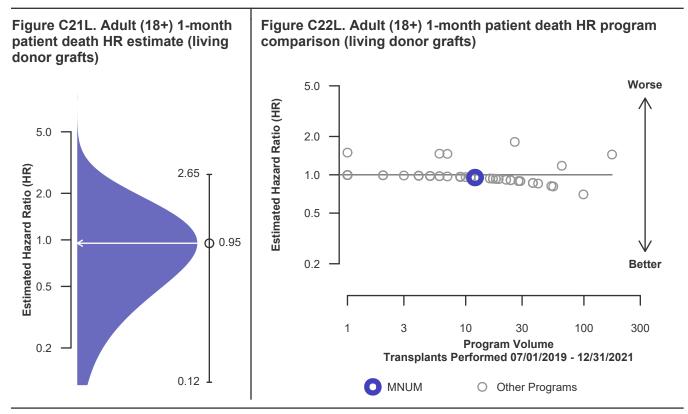
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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 1 month (unadjusted for patient and donor characteristics)	100.00%	99.14%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.14%	
Number of observed deaths during the first month after transplant	0	9
Number of expected deaths during the first month after transplant	0.10	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.65]	

* 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, 2.65], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 5% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 88% reduced risk up to 165% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

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

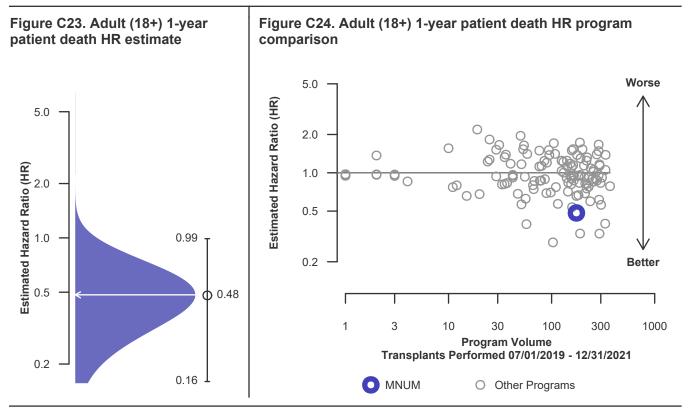
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	174	16,850
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.19%	93.73%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.86%	
Number of observed deaths during the first year after transplant	3	853
Number of expected deaths during the first year after transplant	8.34	
Estimated hazard ratio*	0.48	
95% credible interval for the hazard ratio**	[0.16, 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 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, 0.99], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 52% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 84% reduced risk up to 1% reduced risk.





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C. Transplant Information

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

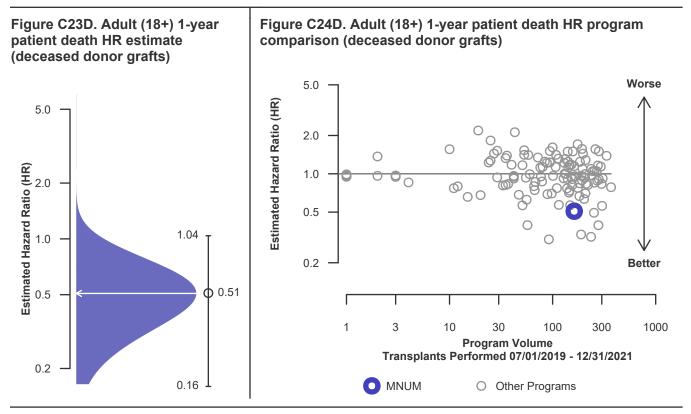
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	162	15,791
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.05%	93.69%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.82%	
Number of observed deaths during the first year after transplant	3	808
Number of expected deaths during the first year after transplant	7.84	
Estimated hazard ratio*	0.51	
95% credible interval for the hazard ratio**	[0.16, 1.04]	

* 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, 1.04], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 49% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 84% reduced risk up to 4% increased risk.





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C. Transplant Information

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

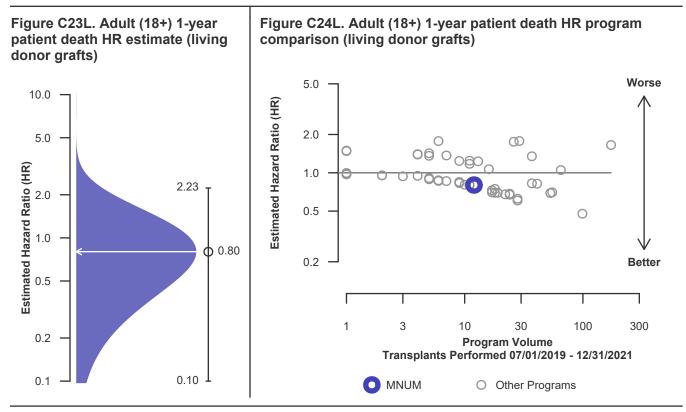
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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 1 year (unadjusted for patient and donor characteristics)	100.00%	94.29%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.29%	
Number of observed deaths during the first year after transplant	0	45
Number of expected deaths during the first year after transplant	0.50	
Estimated hazard ratio*	0.80	
95% credible interval for the hazard ratio**	[0.10, 2.23]	

* 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, 2.23], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 20% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 90% reduced risk up to 123% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
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C. Transplant Information

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

Single organ transplants performed between 01/01/2017 and 06/30/2019

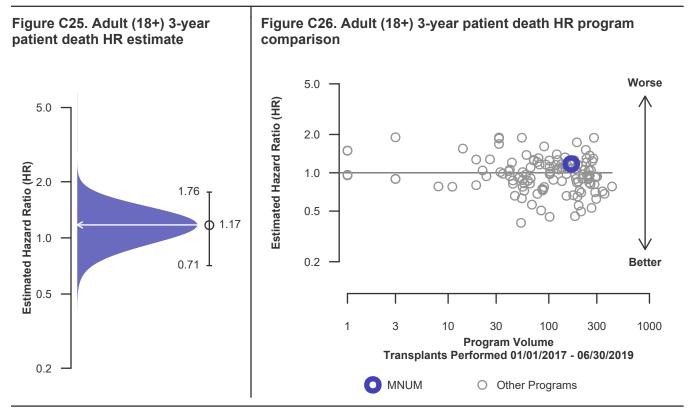
Retransplants excluded

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

	MNUM	U.S.
Number of transplants evaluated	167	16,726
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	88.63%	88.65%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.62%	
Number of observed deaths during the first 3 years after transplant	17	1,459
Number of expected deaths during the first 3 years after transplant	14.19	
Estimated hazard ratio*	1.17	
95% credible interval for the hazard ratio**	[0.71, 1.76]	

* 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, [0.71, 1.76], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 17% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 29% reduced risk up to 76% increased risk.





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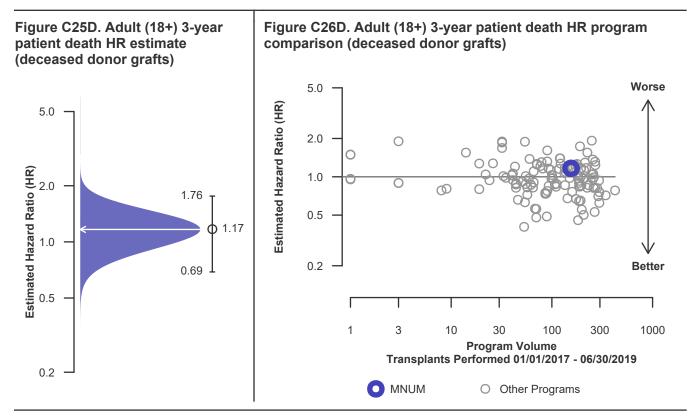
C. Transplant Information

Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 **Retransplants excluded** Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/202	MNUM	U.S.
Number of transplants evaluated	155	15,889
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	88.40%	88.55%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.46%	
Number of observed deaths during the first 3 years after transplant	16	1,405
Number of expected deaths during the first 3 years after transplant	13.44	
Estimated hazard ratio*	1.17	
95% credible interval for the hazard ratio**	[0.69, 1.76]	

* 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, [0.69, 1.76], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 17% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 31% reduced risk up to 76% increased risk.





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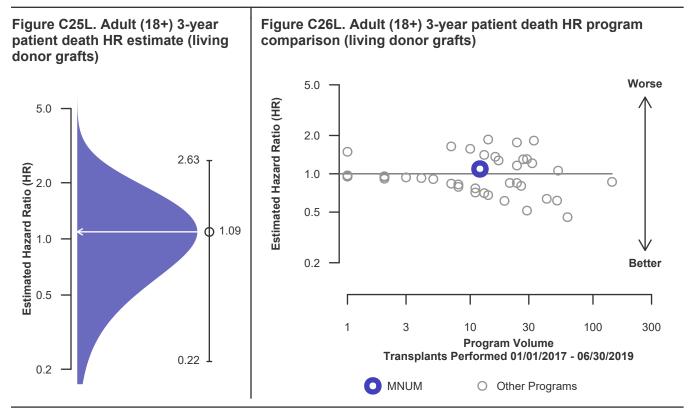
C. Transplant Information

Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 **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	837
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	91.67%	90.63%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.64%	
Number of observed deaths during the first 3 years after transplant	1	54
Number of expected deaths during the first 3 years after transplant	0.75	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.22, 2.63]	

* 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, [0.22, 2.63], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 9% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 78% reduced risk up to 163% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
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C. Transplant Information

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

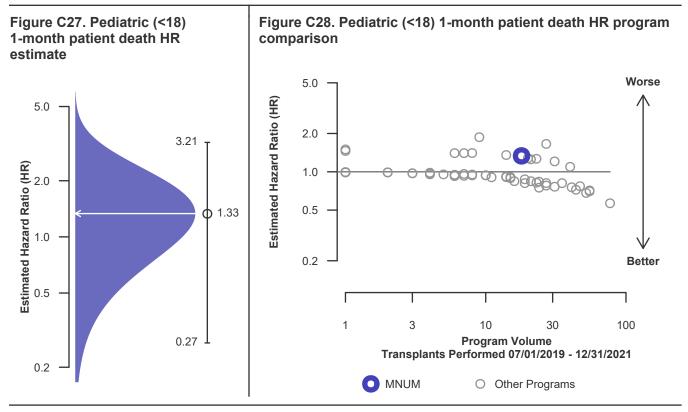
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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 1 month (unadjusted for patient and donor characteristics)	94.44%	98.45%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.56%	
Number of observed deaths during the first month after transplant	1	16
Number of expected deaths during the first month after transplant	0.25	
Estimated hazard ratio*	1.33	
95% credible interval for the hazard ratio**	[0.27, 3.21]	

* 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, [0.27, 3.21], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 33% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 73% reduced risk up to 221% increased risk.





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C. Transplant Information

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

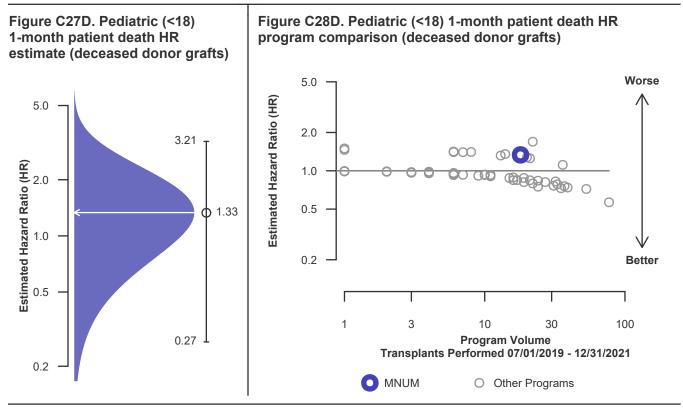
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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 1 month (unadjusted for patient and donor characteristics)	94.44%	98.37%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.56%	
Number of observed deaths during the first month after transplant	1	14
Number of expected deaths during the first month after transplant	0.25	
Estimated hazard ratio*	1.33	
95% credible interval for the hazard ratio**	[0.27, 3.21]	

* 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, [0.27, 3.21], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 33% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 73% reduced risk up to 221% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
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C. Transplant Information

Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2019 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 C27L. Pediatric (<18) 1-month patient death HR estimate (living donor grafts)	Figure C28L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2019-12/31/2021	07/01/2019-12/31/2021



REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

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

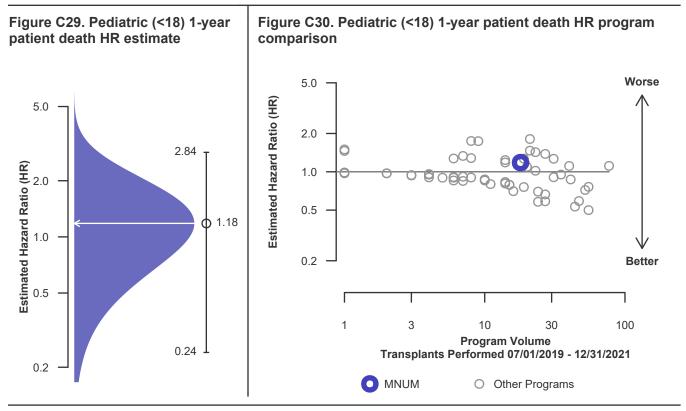
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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 1 year (unadjusted for patient and donor characteristics)	94.44%	95.52%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.04%	
Number of observed deaths during the first year after transplant	1	38
Number of expected deaths during the first year after transplant	0.54	
Estimated hazard ratio*	1.18	
95% credible interval for the hazard ratio**	[0.24, 2.84]	

* 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 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, 2.84], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 18% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 76% reduced risk up to 184% increased risk.





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C. Transplant Information

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

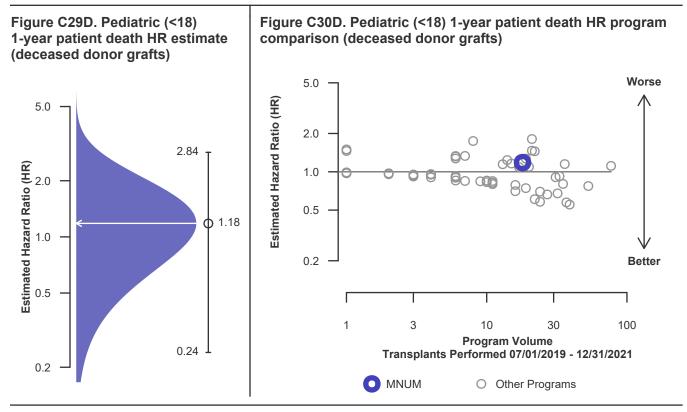
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

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 1 year (unadjusted for patient and donor characteristics)	94.44%	95.32%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.04%	
Number of observed deaths during the first year after transplant	1	33
Number of expected deaths during the first year after transplant	0.54	
Estimated hazard ratio*	1.18	
95% credible interval for the hazard ratio**	[0.24, 2.84]	

* 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 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, 2.84], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 18% higher risk of patient death compared to an average program, but MNUM's performance could plausibly range from 76% reduced risk up to 184% increased risk.





REGISTRY OFCenter Code: MNUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: January 5, 2023RECIPIENTSBased on Data Available: October 31, 2022

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C. Transplant Information

Table C19L. Pediatric (<18) 1-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 C29L. Pediatric (<18) 1-year patient death HR estimate (living donor grafts)	Figure C30L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2019-12/31/2021	07/01/2019-12/31/2021



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C. Transplant Information

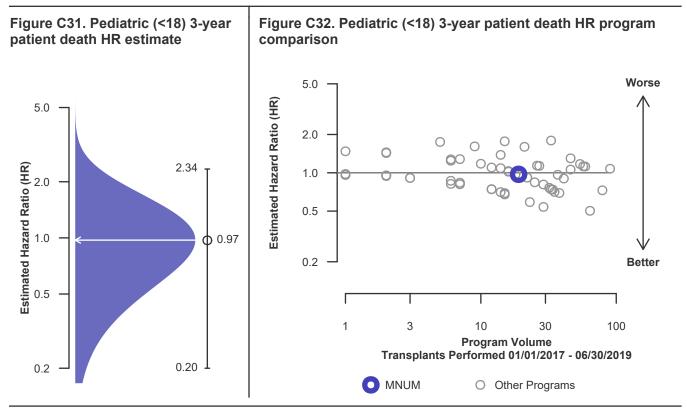
Table C20. Pediatric (<18) 3-year patient survival</th>Single organ transplants performed between 01/01/2017 and 06/30/2019

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

	MNUM	U.S.
Number of transplants evaluated	19	1,265
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	92.86%	92.45%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.14%	
Number of observed deaths during the first 3 years after transplant	1	75
Number of expected deaths during the first 3 years after transplant	1.08	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.20, 2.34]	

* 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, 2.34], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 80% reduced risk up to 134% increased risk.





REGISTRY OF Center Code: MNUM Transplant Program (Organ): Liver TRANSPLANT Release Date: January 5, 2023 RECIPIENTS

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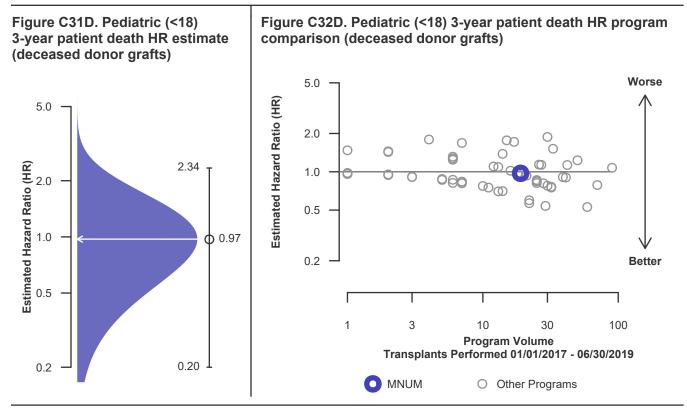
Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 **Retransplants excluded**

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

	MNUM	U.S.
Number of transplants evaluated	19	1,097
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	92.86%	92.13%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.14%	
Number of observed deaths during the first 3 years after transplant	1	66
Number of expected deaths during the first 3 years after transplant	1.08	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.20, 2.34]	

* 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, 2.34], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 80% reduced risk up to 134% increased risk.





REGISTRY OF Center Code: MNUM Transplant Program (Organ): Liver TRANSPLANT RECIPIENTS

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C. Transplant Information

Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 **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 01/01/2017-06/30/2019

Figure C31L. Pediatric (<18) 3-year patient death HR estimate (living donor grafts)	Figure C32L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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C. Transplant Information

Table C21. Multi-organ transplant graft survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Perfor	Transplants Liver Performed Graft Fail MNUM-TX1 USA MNUM-TX1		ilures	Estimated Liver Graft Survival MNUM-TX1 USA	
Kidney-Liver	13	1,904	1	187	92.3%	89.7%
Pediatric (<18) Transplants	First-Year Outcomes					
Transplant Type	Perfor	Transplants Performed MNUM-TX1 USA		Liver Graft Failures MNUM-TX1 USA		ed Liver urvival USA
Pancreas-Liver	1	1	0	0	100.0%	100.0%

Table C22. Multi-organ transplant patient survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Perfor	Transplants Performed Patient Deaths MNUM-TX1 USA MNUM-TX1 USA		Estimated Patient Survival MNUM-TX1 USA		
Kidney-Liver	13	1,904	1	176	92.3%	90.3%
Pediatric (<18) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed MNUM-TX1 USA		Patient Deaths MNUM-TX1 USA		Estimated Patient Survival MNUM-TX1 USA	
Pancreas-Liver	1	1	0	0	100.0%	100.0%



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D. Living Donor Information

Table D1. Living donor summary: 07/01/2019 - 06/30/2022

		This Center			United States		
Living Donor Follow-Up	07/2019- 06/2020	07/2020- 06/2021	07/2021- 12/2021	07/2019- 06/2020	07/2020- 06/2021	07/2021- 12/2021	
Number of Living Donors	6	5	1	491	538	292	
6-Month Follow-Up Donors due for follow-up	2	4	1	96	401	233	
Timely clinical data	2 100.0%	2 50.0%	1 100.0%	84 87.5%	347 86.5%	206 88.4%	
Timely lab data	2 100.0%	4 100.0%	0 0.0%	81 84.4%	350 87.3%	204 87.6%	
12-Month Follow-Up Donors due for follow-up	0	4		95	484		
Timely clinical data	0 %	4 100.0%		76 80.0%	410 84.7%		
Timely lab data	0 %	2 50.0%		75 78.9%	405 83.7%		
24-Month Follow-Up Donors due for follow-up	6			445			
Timely clinical data	3 50.0%			315 70.8%			
Timely lab data	3 50.0%			297 66.7%			

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