

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

Based 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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COVID-19 Guide

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 Northwestern Memorial Hospital. 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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User Guide

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

User Guide

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.



Center Code: ILNM

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

Based on Data Available: October 31, 2022

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

Table of Contents

Section	Page
COVID-19 Guide	i
User Guide	iii
A. Program Summary	
Program Summary	1
B. Waiting List Information	
Waiting list activity	2
Demographic characteristics of waiting list candidates	3
Medical characteristics of waiting list candidates	4
Transplant rates	5
Deceased donor transplant rates	6
Pre-transplant mortality rates (formerly called Waiting list mortality rates)	7
Patient survival from listing	8
Waiting list candidate status after listing	9
Medical urgency status 1 candidate status after listing	10
Percent of candidates with deceased donor transplants: demographic characteris	
Percent of candidates with deceased donor transplants: medical characteristics	12
Time to transplant for waiting list candidates	13
Offer acceptance practices	14
C. Transplant Information	1.0
Deceased donor transplant recipient demographic characteristics	16
Living donor transplant recipient demographic characteristics	17
Deceased donor transplant recipient medical characteristics	18
Living donor transplant recipient medical characteristics	19
Deceased donor characteristics	20
Living donor characteristics	21
Deceased donor transplant characteristics	22
Living donor transplant characteristics	23
Graft survival	24
Patient survival	54
Multi-organ transplant graft survival	72
Multi-organ transplant patient survival	72
D. Living Donor Information	70
Living donor follow-up summary	73



Center Code: ILNM

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

Based on Data Available: October 31, 2022

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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A. Program Summary

Figure A1. Waiting list and transplant activity

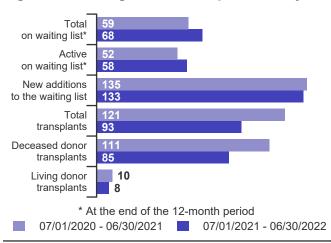


Table A1. Census of transplant recipients

Recipients	07/01/2020- 06/30/2021	07/01/2021- 06/30/2022
Transplanted at this center	121	93
Followed by this center*	1,176	1,202
transplanted at this program	1,115	1,139
transplanted elsewhere	61	63

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

Figure A2. Transplant rates 07/01/2020 - 06/30/2022

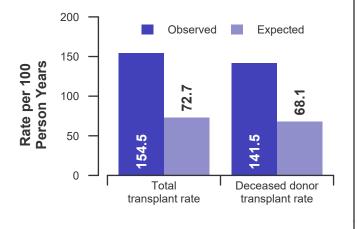


Figure A3. Pre-transplant mortality rates 07/01/2020 - 06/30/2022

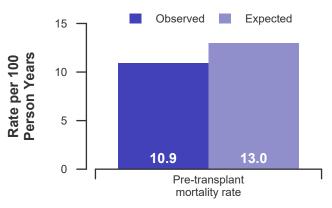


Figure A4. First-year adult graft and patient survival: 07/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2021

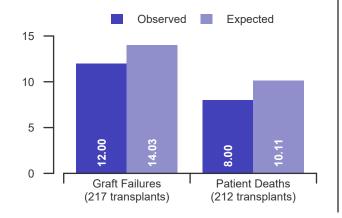


Figure A5. First-year pediatric graft & patient survival: 07/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2021

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



Center Code: ILNM

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

Based on Data Available: October 31, 2022

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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

		its for center	Activity for 07/01/2021 to 06/30/2022 as percent of registrants on waiting lis 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	72	59	100.0	100.0	100.0	
New listings at this center	135	133	225.4	137.4	113.6	
Removals						
Transferred to another center	4	1	1.7	0.5	1.1	
Received living donor transplant*	10	8	13.6	5.5	5.0	
Received deceased donor transplant*	111	85	144.1	94.2	71.2	
Died	2	6	10.2	7.8	9.6	
Transplanted at another center	1	1	1.7	3.5	2.5	
Deteriorated	12	12	20.3	13.3	9.9	
Recovered	3	7	11.9	14.7	9.4	
Other reasons	5	4	6.8	11.9	9.6	
On waiting list at end of period	59	68	115.3	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.



Center Code: ILNM

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

Based on Data Available: October 31, 2022

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

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

Demographic Characteristic		iting List Regis		All Waiting List Registrations on 06/30/2022 (%)			
Demographic Characteristic	This Center (N=133)	OPTN Region (N=1,025)	U.S. (N=13,642)	This Center (N=68)	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	68.4	75.0	68.4	69.1	74.1	66.1	
African-American	6.8	5.8	6.7	10.3	6.1	7.0	
Hispanic/Latino	19.5	13.0	18.6	14.7	12.8	20.0	
Asian	4.5	4.1	4.4	5.9	3.9	5.2	
Other	8.0	2.1	1.8	0.0	3.1	1.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	2.1	2.3	0.0	1.6	1.5	
2-11 years	0.0	1.7	1.8	0.0	1.1	1.4	
12-17 years	0.0	1.4	1.3	0.0	0.9	1.1	
18-34 years	8.3	7.6	6.8	5.9	7.0	6.7	
35-49 years	19.5	25.7	20.9	22.1	22.3	19.3	
50-64 years	45.9	43.6	45.5	41.2	47.6	49.8	
65-69 years	14.3	13.6	15.6	20.6	15.4	15.5	
70+ years	12.0	4.4	5.8	10.3	4.1	4.8	
Gender (%)							
Male	59.4	62.0	60.8	61.8	64.1	60.7	
Female	40.6	38.0	39.2	38.2	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%.



Center Code: ILNM

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

Based on Data Available: October 31, 2022

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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

Medical Characteristic		ting List Reg 021 to 06/30/2		All Waiting List Registrations on 06/30/2022 (%)			
medical Characteristic	This Center (N=133)	OPTN Region (N=1,025)	U.S. (N=13,642)	This Center (N=68)	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	51.1	45.8	47.4	58.8	48.8	49.6	
A	35.3	37.3	36.6	35.3	42.1	38.4	
В	12.0	12.9	12.3	5.9	6.9	10.0	
AB	1.5	4.1	3.7	0.0	2.2	2.1	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	6.8	4.6	4.3	5.9	4.2	3.5	
No	93.2	95.4	95.7	94.1	95.8	96.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	1.5	5.6	5.0	0.0	2.0	1.7	
Non-Cholestatic Cirrhosis	78.2	64.4	67.8	76.5	66.0	69.5	
Cholestatic Liver Disease/Cirrhosis	9.0	7.7	6.7	13.2	8.7	7.7	
Biliary Atresia	0.0	1.8	1.9	0.0	1.7	1.8	
Metabolic Diseases	1.5	2.2	1.9	0.0	0.9	1.5	
Malignant Neoplasms	0.8	10.2	10.8	1.5	14.5	11.7	
Other	9.0	8.0	5.9	8.8	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	2.3	3.2	2.9	0.0	0.0	0.3	
Status 1B	0.0	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	2.9	0.5	0.2	
MELD 6-10	22.6	13.1	15.1	39.7	24.5	28.0	
MELD 11-14	14.3	10.4	11.3	20.6	19.7	21.5	
MELD 15-20	20.3	19.0	20.9	22.1	30.3	26.5	
MELD 21-30	24.8	27.9	24.8	11.8	15.9	14.5	
MELD 31-40	12.8	15.0	13.2	1.5	1.7	0.9	
PELD less than or equal to 10	0.0	1.4	1.8	0.0	2.2	2.0	
PELD 11-14	0.0	0.1	0.3	0.0	0.0	0.2	
PELD 15-20	0.0	0.4	0.4	0.0	0.2	0.2	
PELD 21-30	0.0	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	0.0	4.4	4.7	0.0	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.



Center Code: ILNM

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

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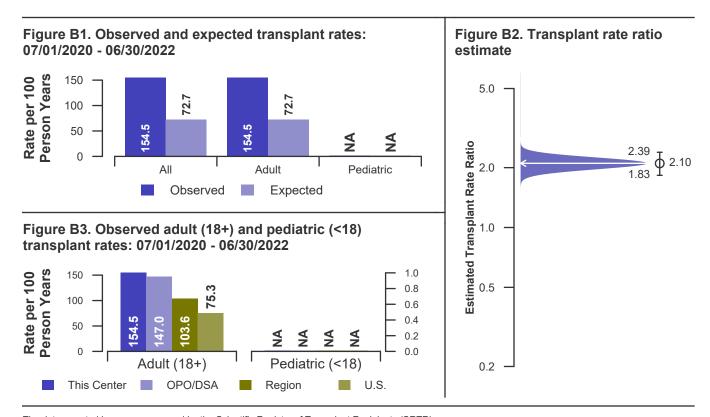
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Table B4. Transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	72	282	805	12,524
Person Years**	138.5	497.0	1,463.7	23,894.1
Removals for Transplant	214	732	1,538	18,440
Adult (18+) Candidates				
Count on waiting list at start*	72	273	779	12,105
Person Years**	138.5	474.3	1,412.3	23,090.7
Removals for transpant	214	697	1,463	17,379
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

^{*} 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.





Center Code: ILNM

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

Based on Data Available: October 31, 2022

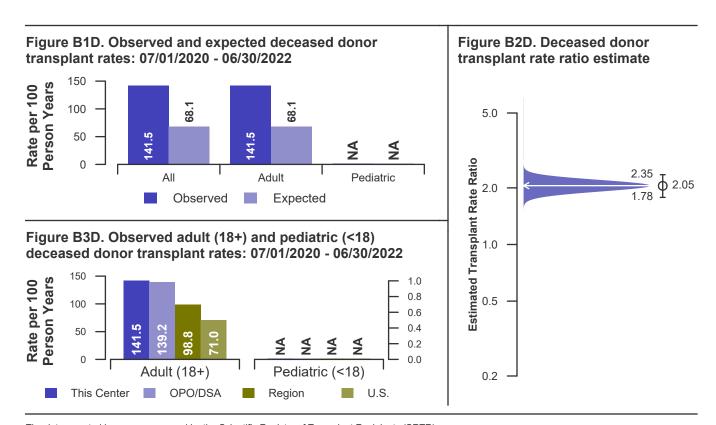
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Table B4D. Deceased donor transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	72	282	805	12,524
Person Years**	138.5	497.0	1,463.7	23,894.1
Removals for Transplant	196	687	1,461	17,303
Adult (18+) Candidates				
Count on waiting list at start*	72	273	779	12,105
Person Years**	138.5	474.3	1,412.3	23,090.7
Removals for transpant	196	660	1,396	16,393
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

^{*} 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.





Center Code: ILNM

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

Based on Data Available: October 31, 2022

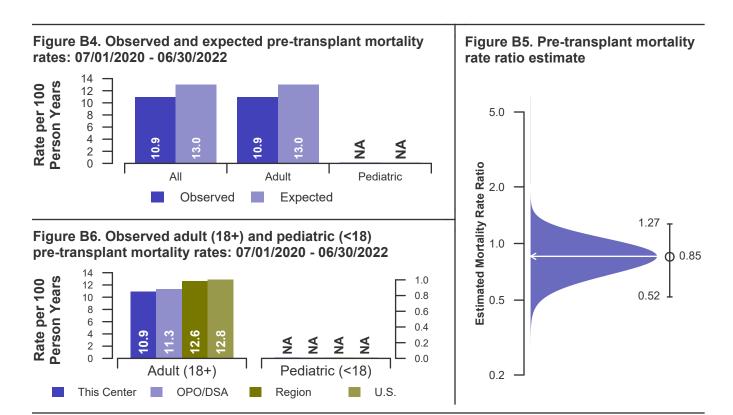
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Table B5. Pre-transplant mortality rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	72	282	805	12,524
Person Years**	165.0	595.8	1,782.0	27,986.3
Number of deaths	18	67	220	3,522
Adult (18+) Candidates				
Count on waiting list at start*	72	273	779	12,105
Person Years**	165.0	572.7	1,722.7	27,094.2
Number of deaths	18	65	217	3,477
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Number of deaths				

^{*} 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.





Center Code: ILNM

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

Based on Data Available: October 31, 2022

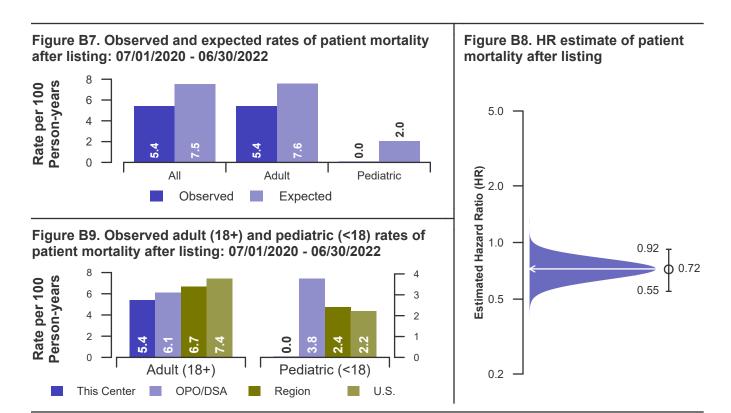
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Table B6. Rates of patient mortality after listing: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	767	2,538	6,065	77,111
Person-years*	1,071.8	3,448.1	8,251.3	103,731.2
Number of Deaths	58	207	532	7,369
Adult (18+) Patients				
Count at risk during the evaluation period	766	2,409	5,749	72,713
Person-years*	1,070.4	3,288.8	7,837.4	97,688.5
Number of Deaths	58	201	522	7,235
Pediatric (<18) Patients				
Count at risk during the evaluation period	1	129	316	4,398
Person-years*	1.4	159.4	413.9	6,042.7
Number of Deaths	0	6	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.





Center Code: ILNM

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

Based on Data Available: October 31, 2022

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

Waiting list status (survival status)	This Center (N=126) Months Since Listing 6 12 18			U.S. (N=13,025) Months Since Listing 6 12 18		
Alive on waiting list (%)	29.4	10.3	5.6	40.2	24.2	16.4
Died on the waiting list without transplant (%)	8.0	8.0	8.0	4.1	5.3	6.2
Removed without transplant (%):						
Condition worsened (status unknown)	6.3	7.9	8.7	3.9	5.6	6.4
Condition improved (status unknown)	8.0	8.0	8.0	1.3	2.3	3.4
Refused transplant (status unknown)	8.0	8.0	8.0	0.2	0.3	0.5
Other	1.6	2.4	2.4	1.8	3.1	4.2
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	7.1	9.5	5.6	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	4.8	0.0	0.1	1.5
Transplant (deceased donor) (%):						
Functioning (alive)	47.6	60.3	36.5	41.8	45.6	32.9
Failed-Retransplanted (alive)	1.6	1.6	1.6	0.4	0.6	0.7
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	2.4	2.4	3.2	1.9	3.0	4.1
Status Yet Unknown*	0.0	1.6	27.0	1.5	6.2	21.0
Lost or Transferred (status unknown) (%)	1.6	1.6	2.4	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	3.2	3.2	4.0	6.1	8.5	10.5
Total % known died or removed as unstable	9.5	11.1	12.7	10.0	14.0	16.9
Total % removed for transplant	58.7	75.4	78.6	48.2	58.9	62.4
Total % with known functioning transplant (alive)	54.8	69.8	42.1	44.3	48.7	34.7

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



Center Code: ILNM

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

Based on Data Available: October 31, 2022

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

Waiting list status (survival status)	This Center (N=2) Months Since listing 6 12 18			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 (%)	0.0	0.0	0.0	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)	100.0	100.0	100.0	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	0.0	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	0.0	0.0	0.0	15.8	17.7	18.0
Total % known died or removed as unstable	0.0	0.0	0.0	24.4	26.4	26.6
Total % removed for transplant	100.0	100.0	100.0	65.5	65.5	65.5
Total % with known functioning transplant (alive)	100.0	100.0	100.0	54.9	44.1	32.8

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



Center Code: ILNM

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

	Percent transplanted at time periods since listing									
Characteristic		Th	nis Cent	ter			Un	ited Sta	ites	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	395	30.1	69.4	72.4	73.4	38,355	20.6	50.8	57.6	59.4
Ethnicity/Race*										
White	305	30.5	69.5	72.5	73.8	26,408	20.6	51.8	58.1	59.8
African-American	18	33.3	72.2	77.8	77.8	3,191	23.6	54.8	61.9	63.3
Hispanic/Latino	60	26.7	68.3	71.7	71.7	6,297	19.2	46.6	54.3	56.3
Asian	12	33.3	66.7	66.7	66.7	1,815	19.2	44.3	53.6	56.0
Other	0					644	23.0	51.7	57.8	59.2
Unknown	0					0				
Age										
<2 years	0					883	22.5	71.9	75.4	76.4
2-11 years	0					687	27.5	70.9	76.9	78.5
12-17 years	1	100.0	100.0	100.0	100.0	440	21.6	56.1	65.5	67.3
18-34 years	20	15.0	45.0	45.0	45.0	2,276	30.7	52.7	58.0	60.0
35-49 years	45	51.1	77.8	82.2	84.4	6,480	29.4	53.7	58.9	60.6
50-64 years	207	28.0	71.5	72.5	73.9	19,635	18.8	49.7	57.0	58.8
65-69 years	96	26.0	64.6	71.9	71.9	6,348	14.1	46.3	54.0	55.9
70+ years	26	34.6	73.1	76.9	76.9	1,606	14.5	46.1	53.6	54.4
Gender										
Male	268	28.7	69.0	71.6	73.1	24,004	20.3	52.0	59.1	60.9
Female	127	33.1	70.1	74.0	74.0	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%.



Center Code: ILNM

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 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			ercent to	ransplaı er	nted at t	ime per		ce listi	_	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	395	30.1	69.4	72.4	73.4	38,355	20.6	50.8	57.6	59.4
Blood Type						,				
0	188	31.4	72.9	77.1	77.1	17,814	19.7	48.4	55.8	57.6
A	146	26.0	64.4	66.4	69.2	14,263	19.5	49.2	56.0	57.8
В	45	35.6	68.9	68.9	68.9	4,738	24.0	58.4	64.3	65.9
AB	16	37.5	75.0	81.2	81.2	1,540	30.6	69.8	73.1	74.0
Previous Transplant										
Yes	22	50.0	63.6	68.2	68.2	1,890	30.1	53.3	58.7	60.0
No	373	29.0	69.7	72.7	73.7	36,465	20.1	50.7	57.5	59.3
Primary Disease										
Acute Hepatic Necrosis	11	45.5	54.5	54.5	54.5	1,685	51.4	60.4	63.0	63.7
Non-Cholestatic Cirrhosis	322	28.9	69.6	71.7	72.7	25,427	21.3	49.8	55.8	57.6
Cholestatic Liver	32	31.2	71.9	81.2	84.4	2 622	17 E	50.0	57.8	60.5
Disease/Cirrhosis	32	31.2	71.9	01.2	04.4	2,622	17.5	50.0	57.0	60.5
Biliary Atresia	1	100.0	100.0	100.0	100.0	769	15.7	66.1	72.8	74.5
Metabolic Diseases	14	42.9	78.6	85.7	85.7	937	24.3	67.8	72.8	74.7
Malignant Neoplasms	0					4,875	7.9	48.1	59.3	60.6
Other	14	21.4	57.1	64.3	64.3	2,026	21.4	50.4	58.4	60.1
Missing	1	100.0	100.0	100.0	100.0	14	35.7	42.9	42.9	42.9
Medical Urgency Status/MELD/	PELD	at Listin	g*							
Status 1	0					0				
Status 1A	7	57.1	57.1	57.1	57.1	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	82	0.0	51.2	57.3	59.8	7,477	2.6	38.5	50.4	52.8
MELD 11-14	48	6.2	68.8	75.0	79.2	5,188	2.7	32.7	43.4	46.6
MELD 15-20	87	25.3	71.3	75.9	75.9	8,209	9.1	44.3	52.5	54.9
MELD 21-30	107	45.8	82.2	82.2	82.2	8,641	25.8	60.2	63.8	64.9
MELD 31-40	46	76.1	80.4	80.4	80.4	3,953	69.6	78.5	78.8	79.0
PELD less than or equal to 10	0					699	10.6	69.5	77.1	79.4
PELD 11-14	0					104	14.4	74.0	82.7	84.6
PELD 15-20	0					182	19.2	75.8	78.6	79.1
PELD 21-30	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	18	33.3	44.4	44.4	44.4	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.



Center Code: ILNM

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 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	0.2	0.2	0.2	
25th	0.5	0.6	1.2	1	
50th (median time to transplant)	3.5	5.9	8.4	7.9	
75th	13.1	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.



Center Code: ILNM

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

Based on Data Available: October 31, 2022

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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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	2,241	6,959	19,009	291,116
Number of Acceptances	79	281	623	7,600
Expected Acceptances	54.7	209.1	653.8	7,590.3
Offer Acceptance Ratio*	1.43	1.34	0.95	1.00
95% Credible Interval**	[1.13, 1.76]			
PHS increased infectious risk				
Number of Offers	437	1,334	3,205	47,352
Number of Acceptances	17	61	113	1,412
Expected Acceptances	10.8	41.4	119.0	1,409.4
Offer Acceptance Ratio*	1.49	1.45	0.95	1.00
95% Credible Interval**	[0.90, 2.23]			
DCD donor				
Number of Offers	702	1,703	4,410	67,073
Number of Acceptances	13	37	60	840
Expected Acceptances	6.3	21.3	72.7	840.4
Offer Acceptance Ratio*	1.80	1.67	0.83	1.00
95% Credible Interval**	[1.01, 2.82]			
HCV+ donor				
Number of Offers	144	294	700	9,973
Number of Acceptances	2	6	17	348
Expected Acceptances	3.6	8.7	22.8	347.3
Offer Acceptance Ratio*	0.72	0.75	0.77	1.00
95% Credible Interval**	[0.20, 1.57]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	1,431	4,028	9,782	176,466
Number of Acceptances	11	29	55	1,006
Expected Acceptances	7.9	24.5	56.9	1,011.3
Offer Acceptance Ratio*	1.32	1.17	0.97	0.99
95% Credible Interval**	[0.70, 2.12]			
Donor more than 500 miles away				
Number of Offers	798	1,959	6,035	86,457
Number of Acceptances	7	28	76	933
Expected Acceptances	7.2	21.2	74.2	890.8
Offer Acceptance Ratio*	0.98	1.29	1.02	1.05
95% Credible Interval**	[0.45, 1.71]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of Northwestern Memorial Hospital 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, [1.13, 1.76], indicates the location of ILNM's true offer acceptance ratio with 95% probability. The best estimate is 43% more likely to accept an offer compared to national acceptance behavior, but ILNM's performance could plausibly range from 13% higher acceptance up to 76% higher acceptance.



Center Code: ILNM
Transplant Program (Org.

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

Based on Data Available: October 31, 2022

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Figure B10. Offer acceptance: Overall

0.1 0.4 2.5 10

National Average Higher

Figure B11. Offer acceptance: PHS increased infectious risk

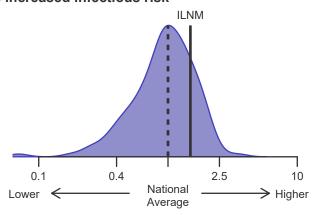
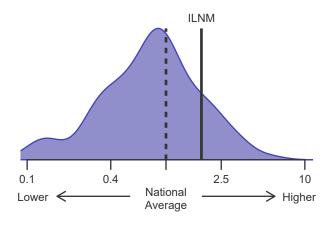


Figure B12. Offer acceptance: DCD Donor

Figure B13. Offer acceptance: HCV+ Donor



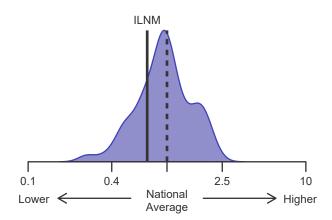
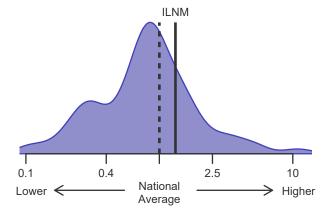
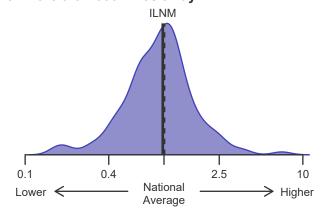


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance: Donor more than 500 miles away







Center Code: ILNM

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

Based on Data Available: October 31, 2022

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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=85)	Region (N=703)	U.S. (N=8,552)	
Ethnicity/Race (%)*				
White	69.4	75.0	68.7	
African-American	4.7	5.8	7.4	
Hispanic/Latino	21.2	12.7	17.7	
Asian	3.5	4.7	4.5	
Other	1.2	1.8	1.8	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	2.0	1.8	
2-11 years	0.0	2.1	2.1	
12-17	0.0	1.0	1.2	
18-34	7.1	7.0	6.8	
35-49 years	14.1	25.7	21.7	
50-64 years	57.6	44.4	45.5	
65-69 years	14.1	12.8	15.3	
70+ years	7.1	5.0	5.7	
Gender (%)				
Male	64.7	63.2	62.3	
Female	35.3	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%.



Center Code: ILNM

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

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

	Percentage in each category			
Characteristic	Center (N=8)	Region (N=41)	U.S. (N=595)	
Ethnicity/Race (%)*				
White	37.5	80.5	72.4	
African-American	12.5	9.8	6.2	
Hispanic/Latino	25.0	4.9	16.8	
Asian	12.5	2.4	3.5	
Other	12.5	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	37.5	14.6	11.6	
35-49 years	25.0	19.5	19.7	
50-64 years	25.0	43.9	33.4	
65-69 years	12.5	9.8	15.5	
70+ years	0.0	0.0	5.4	
Gender (%)				
Male	25.0	39.0	48.9	
Female	75.0	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%.



Center Code: ILNM

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

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

	Percentage in each category			
Characteristic	Center (N=85)	Region (N=703)	U.S. (N=8,552)	
Blood Type (%)				
0	44.7	42.2	45.6	
A	35.3	38.1	35.9	
В	15.3	14.5	13.8	
AB	4.7	5.1	4.6	
Previous Transplant (%)				
Yes	4.7	3.8	4.4	
No	95.3	96.2	95.6	
Body Mass Index (%)				
0-20	4.7	10.8	10.8	
21-25	25.9	24.0	26.7	
26-30	31.8	26.2	29.6	
31-35	21.2	19.2	18.7	
36-40	4.7	8.8	8.5	
41+	3.5	4.7	3.8	
Unknown	8.2	6.3	1.9	
Primary Disease (%)				
Acute Hepatic Necrosis	1.2	5.7	5.6	
Non-Cholestatic Cirrhosis	83.5	63.9	66.2	
Cholestatic Liver Disease/Cirrhosis	7.1	7.8	6.5	
Biliary Atresia	1.2	1.8	1.8	
Metabolic Diseases	2.4	3.6	2.4	
Malignant Neoplasms	3.5	11.7	12.3	
Other	1.2	5.5	5.2	
Missing	0.0	0.0	0.0	
Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0.0	
Status 1A	2.4	3.7	3.2	
Status 1B	0.0	1.6	1.1	
MELD 6-10	10.6	8.3	10.4	
MELD 11-14	14.1	7.0	6.5	
MELD 15-14 MELD 15-20	15.3	7.0 12.4	15.4	
MELD 13-20 MELD 21-30	32.9	37.0	29.7	
MELD 31-40	18.8 0.0	22.9 1.0	24.5 1.1	
PELD less than or equal to 10				
PELD 11-14	0.0	0.0	0.2	
PELD 15-20	0.0	0.6	0.4	
PELD 21-30	0.0	0.0	0.3	
PELD 31 or greater	0.0	0.1	0.3	
Temporarily Inactive	0.0	0.0	0.0	
Recipient Medical Condition at Transplant (%)	70.0	04.0	F7 4	
Not Hospitalized	70.6	61.9	57.1	
Hospitalized	18.8	25.3	26.3	
ICU	10.6	12.8	16.6	
Unknown	0.0	0.0	0.1	

^{*} 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



Center Code: ILNM

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

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

	Percentage in each category			
Characteristic	Center (N=8)	Region (N=41)	Ü.S. (N=595)	
Blood Type (%)				
0	25.0	39.0	45.9	
A	62.5	41.5	42.0	
В	12.5	17.1	9.9	
_ AB	0.0	2.4	2.2	
Previous Transplant (%)				
Yes	12.5	2.4	1.5	
No	87.5	97.6	98.5	
Body Mass Index (%)				
0-20	12.5	17.1	21.7	
21-25	62.5	51.2	33.1	
26-30	25.0	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	37.5	39.0	47.6	
Cholestatic Liver Disease/Cirrhosis	37.5	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	25.0	7.3	5.0	
Missing	0.0	0.0	0.0	
Medical Urgency Statust/MELD/PELD at Transplant (%)*				
Status 1A	0.0	2.4	1.0	
Status 1B	0.0	0.0	0.7	
MELD 6-10	25.0	31.7	25.7	
MELD 11-14	12.5	14.6	17.3	
MELD 15-20	62.5	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	8.0	
Temporarily Inactive	0.0	0.0	1.5	
Recipient Medical Condition at Transplant (%)				
Not Hospitalized	87.5	90.2	88.7	
Hospitalized	12.5	4.9	7.9	
ICU	0.0	4.9	3.4	
Unknown	0.0	0.0	0.0	

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



Center Code: ILNM

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

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 C3D. Deceased donor characteristics
Transplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category			
Donor Characteristic	Center (N=85)	Region (N=703)	U.S. (N=8,552)	
Cause of Death (%)				
Deceased: Stroke	24.7	24.6	25.4	
Deceased: MVA	15.3	12.5	13.0	
Deceased: Other	60.0	62.9	61.6	
Ethnicity/Race (%)*				
White	57.6	71.3	61.4	
African-American	30.6	18.9	18.7	
Hispanic/Latino	9.4	6.0	15.9	
Asian	2.4	2.6	2.8	
Other	0.0	1.3	1.2	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	1.0	0.8	
2-11 years	0.0	1.6	2.4	
12-17	4.7	4.7	4.5	
18-34	35.3	26.7	31.7	
35-49 years	27.1	29.7	29.9	
50-64 years	29.4	25.9	23.6	
65-69 years	3.5	5.0	4.1	
70+ years	0.0	5.4	3.0	
Gender (%)				
Male	68.2	65.1	63.7	
Female	31.8	34.9	36.3	
Blood Type (%)				
0	44.7	44.1	49.2	
A	35.3	39.0	36.3	
В	17.6	13.9	11.9	
AB	2.4	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%.



Center Code: ILNM

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

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 C3L. Living donor characteristics
Transplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category				
Donor Characteristic	Center	Region	U.S.		
	(N=8)	(N=41)	(N=595)		
Ethnicity/Race (%)*					
White	62.5	87.8	77.1		
African-American	0.0	4.9	4.5		
Hispanic/Latino	25.0	4.9	14.3		
Asian	12.5	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	62.5	46.3	43.0		
35-49 years	12.5	41.5	43.7		
50-64 years	25.0	12.2	12.4		
65-69 years	0.0	0.0	0.2		
70+ years	0.0	0.0	0.0		
Gender (%)					
Male	37.5	36.6	44.5		
Female	62.5	63.4	55.5		
Blood Type (%)					
0	75.0	65.9	64.5		
A	25.0	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%.



Center Code: ILNM

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

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 C4D. Deceased donor transplant characteristics Transplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category			
Transplant Characteristic	Center	Region	U.S.	
	(N=85)	(N=703)	(N=8,552)	
Cold Ischemic Time (Hours): Local (%)				
Deceased: 0-5 hr	64.9	72.0	67.7	
Deceased: 6-10 hr	35.1	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	8.0	1.5	
Cold Ischemic Time (Hours): Shared (%)				
Deceased: 0-5 hr	56.2	51.4	44.4	
Deceased: 6-10 hr	37.5	45.5	50.9	
Deceased: 11-15 hr	4.2	2.0	3.1	
Deceased: 16-20 hr	0.0	0.2	0.5	
Deceased: 21+ hr	2.1	0.2	0.2	
Not Reported	0.0	0.7	1.0	
Procedure Type (%)				
Single organ	92.9	89.5	89.6	
Multi organ	7.1	10.5	10.4	
Donor Location (%)				
Local Donation Service Area (DSA)	43.5	37.1	35.0	
Another Donation Service Area (DSA)	56.5	62.9	65.0	
Median Time in Hospital After Transplant	6.0 Days	10.0 Days	10.0 Days	



Center Code: ILNM

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

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 C4L. Living donor transplant characteristics
Transplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category			
Transplant Characteristic	Center (N=8)	Region (N=41)	U.S. (N=595)	
Relation with Donor (%)		,	,	
Related	12.5	41.5	54.8	
Unrelated	87.5	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	6.0 Days	9.0 Days	10.0 Days	



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

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

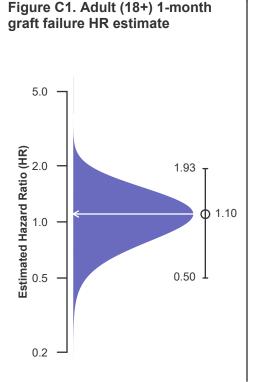
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

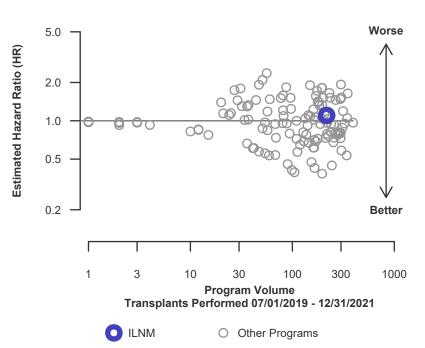
	ILNM	U.S.
Number of transplants evaluated	217	17,460
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	96.76%	96.74%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.12%	
Number of observed graft failures (including deaths) during the first month after transplant	7	562
Number of expected graft failures (including deaths) during the first month after transplant	6.17	
Estimated hazard ratio*	1.10	
95% credible interval for the hazard ratio**	[0.50, 1.93]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.50, 1.93], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 10% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 50% reduced risk up to 93% increased risk.









Center Code: ILNM

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

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

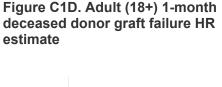
Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ILNM	U.S.
Number of transplants evaluated	198	16,390
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	96.44%	96.69%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.09%	
Number of observed graft failures (including deaths) during the first month after transplant	7	535
Number of expected graft failures (including deaths) during the first month after transplant	5.68	
Estimated hazard ratio*	1.17	
95% credible interval for the hazard ratio**	[0.54, 2.05]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.54, 2.05], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 17% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 46% reduced risk up to 105% increased risk.



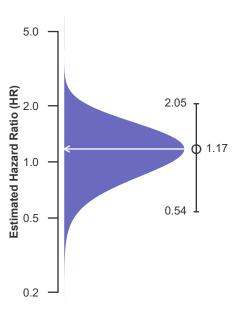
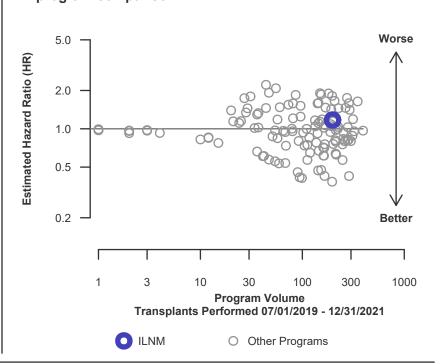


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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

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

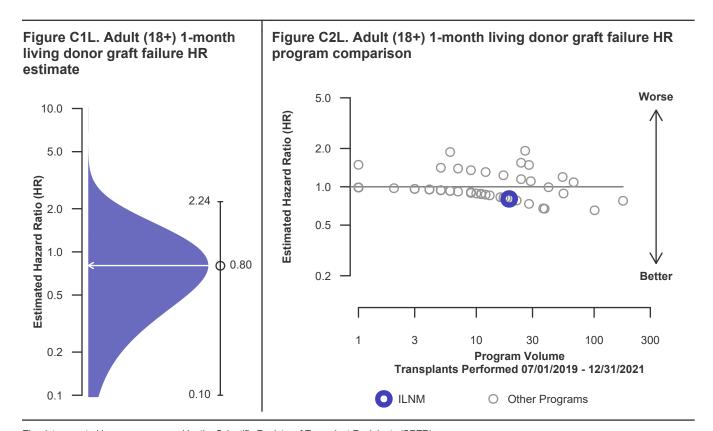
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ILNM	U.S.
Number of transplants evaluated	19	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	0.49	
Estimated hazard ratio*	0.80	
95% credible interval for the hazard ratio**	[0.10, 2.24]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.24], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 20% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 90% reduced risk up to 124% increased risk.





Center Code: ILNM

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

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

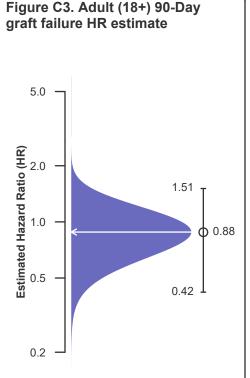
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

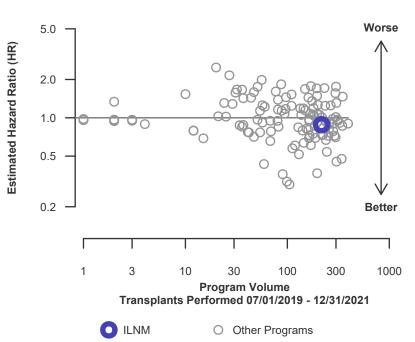
	ILNM	U.S.
Number of transplants evaluated	217	17,460
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	96.25%	95.20%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.56%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	8	811
Number of expected graft failures (including deaths) during the first 90 days after transplant	9.34	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.42, 1.51]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.42, 1.51], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 12% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 58% reduced risk up to 51% increased risk.









Center Code: ILNM

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

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

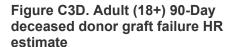
Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ILNM	U.S.
Number of transplants evaluated	198	16,390
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	95.89%	95.17%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.55%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	8	766
Number of expected graft failures (including deaths) during the first 90 days after transplant	8.52	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.46, 1.62]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.46, 1.62], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 54% reduced risk up to 62% increased risk.



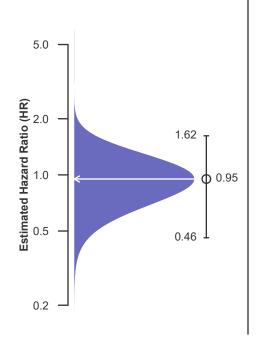
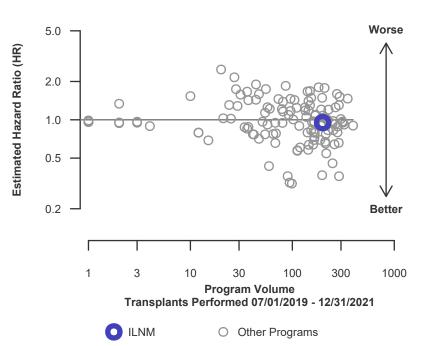


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





Center Code: ILNM Transplant Program (Organ): Liver

Release Date: January 5, 2023 Based on Data Available: October 31, 2022 Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

SRTR Program-Specific Report

C. Transplant Information

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

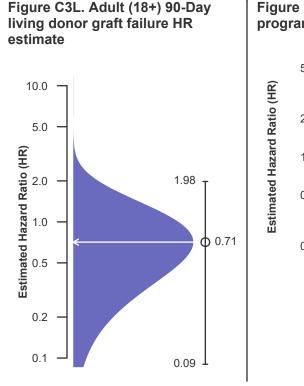
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

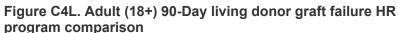
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

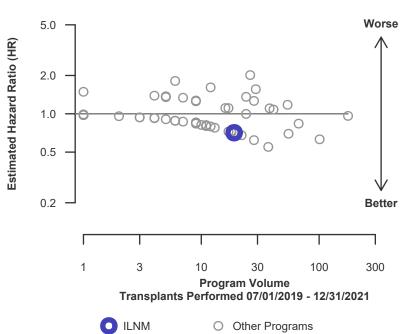
	ILNM	U.S.
Number of transplants evaluated	19	1,070
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	100.00%	95.62%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	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	0.82	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.09, 1.98]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.09, 1.98], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 29% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 91% reduced risk up to 98% increased risk.









Center Code: ILNM

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

Based on Data Available: October 31, 2022

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C. Transplant Information

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

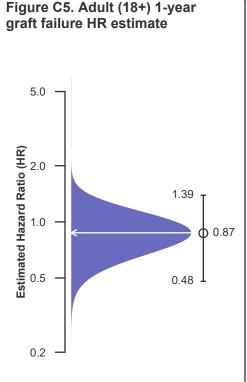
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ILNM	U.S.
Number of transplants evaluated	217	17,460
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	93.76%	91.89%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.32%	
Number of observed graft failures (including deaths) during the first year after transplant	12	1,183
Number of expected graft failures (including deaths) during the first year after transplant	14.03	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.48, 1.39]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.48, 1.39], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 52% reduced risk up to 39% increased risk.



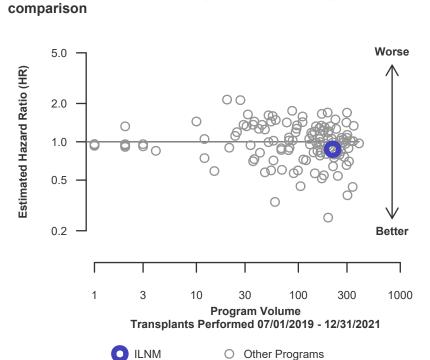


Figure C6. Adult (18+) 1-year graft failure HR program



Center Code: ILNM

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

Based on Data Available: October 31, 2022

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C. Transplant Information

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

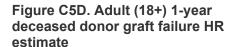
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ILNM	U.S.
Number of transplants evaluated	198	16,390
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	93.15%	91.89%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.35%	
Number of observed graft failures (including deaths) during the first year after transplant	12	1,115
Number of expected graft failures (including deaths) during the first year after transplant	12.73	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.52, 1.51]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.52, 1.51], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 48% reduced risk up to 51% increased risk.



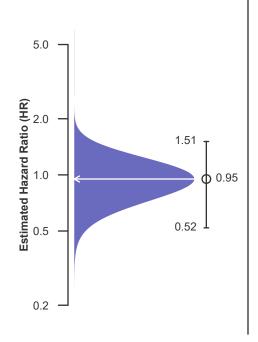
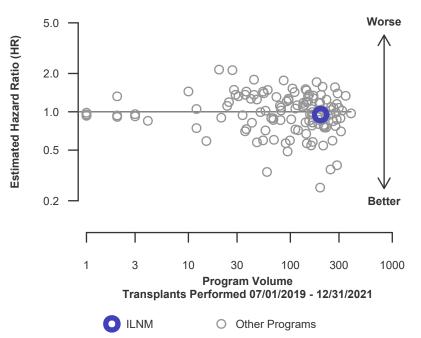


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





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

Based on Data Available: October 31, 2022

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C. Transplant Information

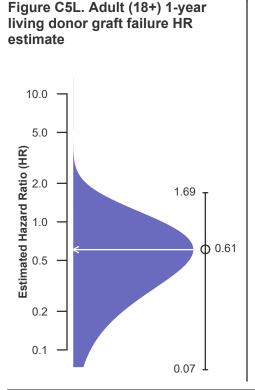
Table C7L. Adult (18+) 1-year survival with a functioning living donor graft

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

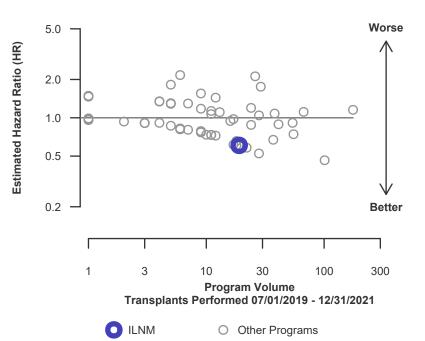
	ILNM	U.S.
Number of transplants evaluated	19	1,070
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	91.96%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	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	1.30	
Estimated hazard ratio*	0.61	
95% credible interval for the hazard ratio**	[0.07, 1.69]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.07, 1.69], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 39% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 93% reduced risk up to 69% increased risk.









Center Code: ILNM

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

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

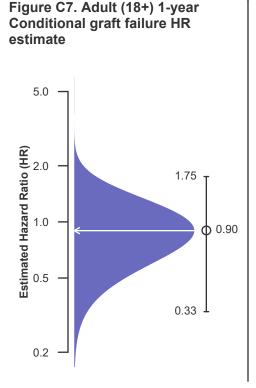
Table C8. Adult (18+) 1-year Conditional survival with a functioning graft

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

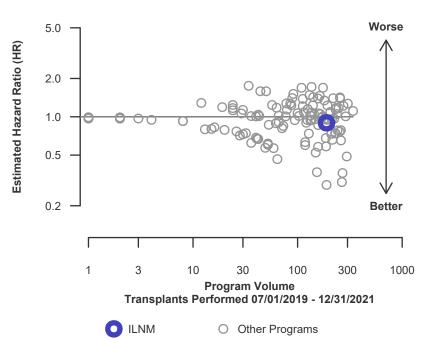
	ILNM	U.S.
Number of transplants evaluated	189	14,768
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	97.41%	96.53%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.61%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	4	372
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	4.69	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.33, 1.75]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.33, 1.75], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 67% reduced risk up to 75% increased risk.









Center Code: ILNM Transplant Program (Organ): Liver

Release Date: January 5, 2023 Based on Data Available: October 31, 2022

Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

SRTR Program-Specific Report

C. Transplant Information

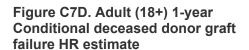
Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

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

	ILNM	U.S.
Number of transplants evaluated	172	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)	96.65%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	4	349
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	4.21	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.35, 1.88]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.35, 1.88], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 65% reduced risk up to 88% increased risk.



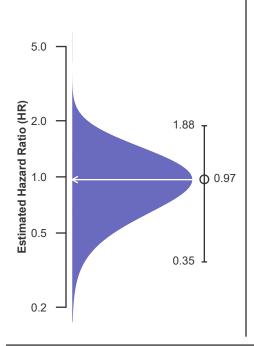
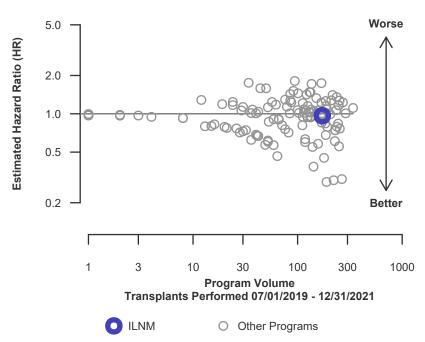


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





Center Code: ILNM

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

Based on Data Available: October 31, 2022

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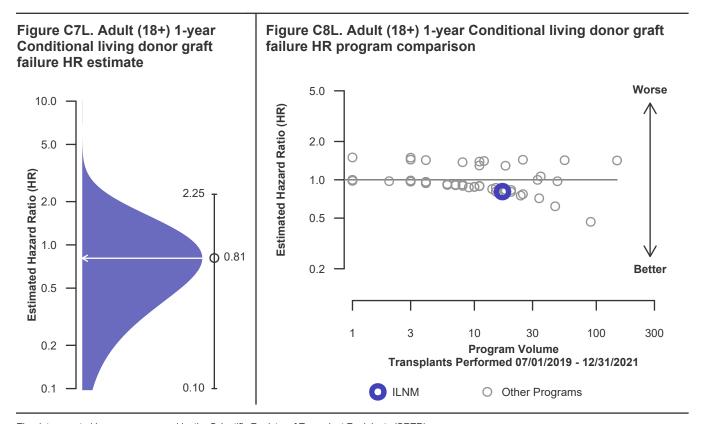
C. Transplant Information

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

	ILNM	U.S.
Number of transplants evaluated	17	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	0.48	
Estimated hazard ratio*	0.81	
95% credible interval for the hazard ratio**	[0.10, 2.25]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.25], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 19% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 90% reduced risk up to 125% increased risk.





Center Code: ILNM

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

Based on Data Available: October 31, 2022

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

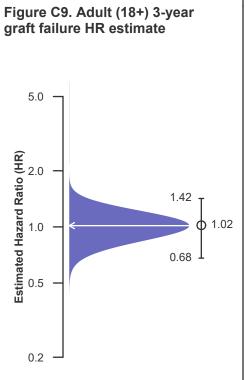
C. Transplant Information

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

	ILNM	U.S.
Number of transplants evaluated	228	17,385
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	87.14%	86.50%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	85.46%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	27	1,862
Number of expected graft failures (including deaths) during the first 3 years after transplant	26.56	
Estimated hazard ratio*	1.02	
95% credible interval for the hazard ratio**	[0.68, 1.42]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.68, 1.42], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 2% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 32% reduced risk up to 42% increased risk.



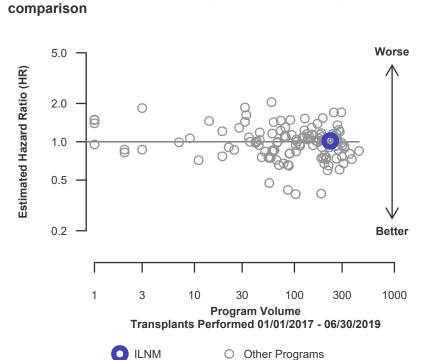


Figure C10. Adult (18+) 3-year graft failure HR program



Center Code: ILNM

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

Based on Data Available: October 31, 2022

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C. Transplant Information

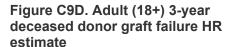
Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2017 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

	ILNM	U.S.
Number of transplants evaluated	206	16,540
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	86.22%	86.48%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	85.31%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	26	1,780
Number of expected graft failures (including deaths) during the first 3 years after transplant	24.15	
Estimated hazard ratio*	1.07	
95% credible interval for the hazard ratio**	[0.71, 1.50]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.71, 1.50], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 7% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 29% reduced risk up to 50% increased risk.



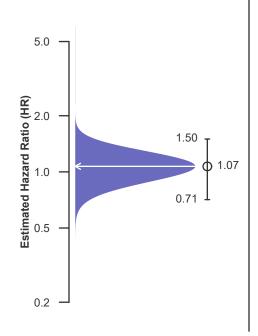
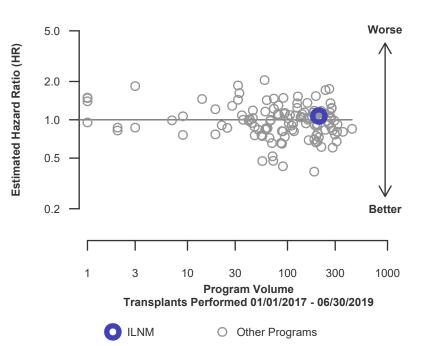


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





Center Code: ILNM

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

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

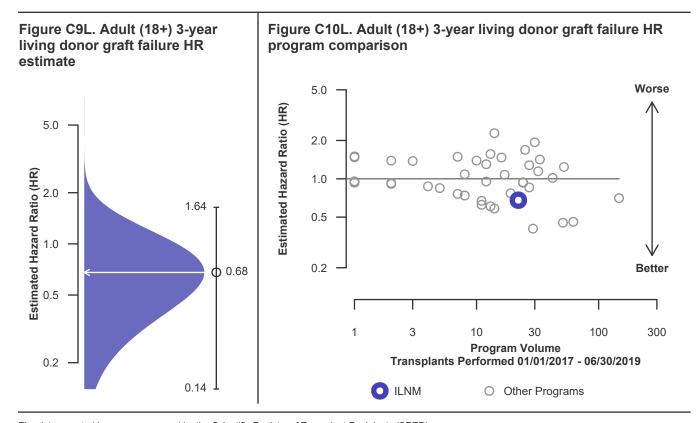
Table C9L. Adult (18+) 3-year survival with a functioning living donor graft

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

	ILNM	U.S.
Number of transplants evaluated	22	845
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	95.45%	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	2.42	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.14, 1.64]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





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

Based on Data Available: October 31, 2022

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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

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

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

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

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



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

Based on Data Available: October 31, 2022

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C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 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 C11D. Pediatric (<18)
1-month deceased donor graft failure HR estimate

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

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



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

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 C10L. Pediatric (<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

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 transplants relevant to this figure during 07/01/2019-12/31/2021



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

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 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

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

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

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

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



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

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 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

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

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

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

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



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

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 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 transplants relevant to this figure during 07/01/2019-12/31/2021



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

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 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

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

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

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

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



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

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 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

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

Figure C15D. Pediatric (<18) 1-year deceased donor graft failure HR estimate Figure C16D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison

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



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

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 C12L. Pediatric (<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

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 transplants relevant to this figure during 07/01/2019-12/31/2021



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

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

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

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

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

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



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

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 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

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

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

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

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



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

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 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 transplants relevant to this figure during 07/01/2019-12/31/2021



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

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 C14. Pediatric (<18) 3-year survival with a functioning 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 C19. Pediatric (<18) 3-year graft failure HR estimate

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

This center did not perform any transplants relevant to this figure during 01/01/2017-06/30/2019



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

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 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

This center did not perform any transplants relevant to this table during 01/01/2017-06/30/2019

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

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

This center did not perform any transplants relevant to this figure during 01/01/2017-06/30/2019



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

Based 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 transplants relevant to this figure during 01/01/2017-06/30/2019



Center Code: ILNM

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

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

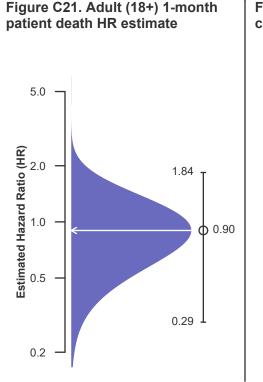
Table C15. Adult (18+) 1-month patient survival

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

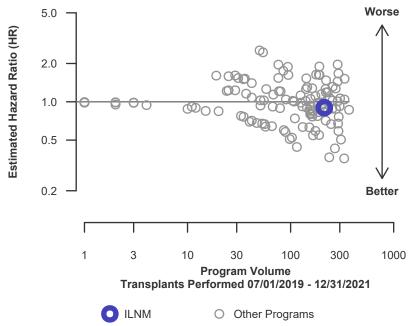
	ILNM	U.S.
Number of transplants evaluated	212	16,850
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	98.58%	98.01%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.31%	
Number of observed deaths during the first month after transplant	3	332
Number of expected deaths during the first month after transplant	3.56	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.29, 1.84]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.29, 1.84], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 10% lower risk







of patient death compared to an average program, but ILNM's performance could plausibly range from 71% reduced risk up to 84% increased risk.



Center Code: ILNM

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

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 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

	ILNM	U.S.
Number of transplants evaluated	193	15,791
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	98.43%	97.93%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.22%	
Number of observed deaths during the first month after transplant	3	323
Number of expected deaths during the first month after transplant	3.40	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.30, 1.90]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

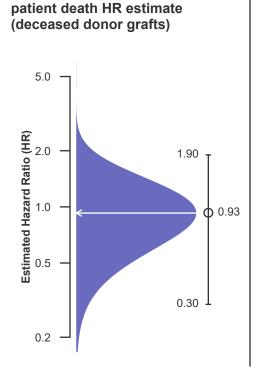
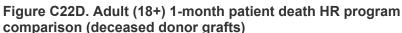
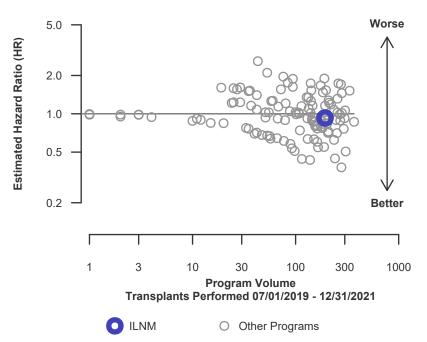


Figure C21D. Adult (18+) 1-month





^{**} The 95% credible interval, [0.30, 1.90], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 7% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 70% reduced risk up to 90% increased risk.



Center Code: ILNM

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

Based on Data Available: October 31, 2022

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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C. Transplant Information

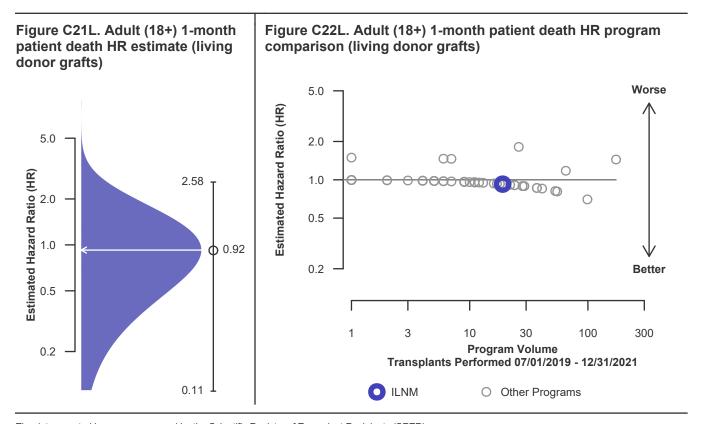
Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)

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

	ILNM	U.S.
Number of transplants evaluated	19	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	0.16	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.58]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.58], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 8% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 89% reduced risk up to 158% increased risk.





Center Code: ILNM

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

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

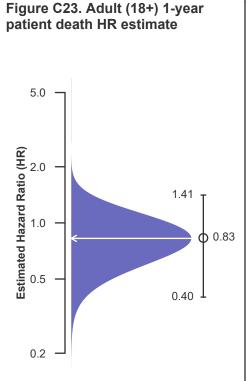
Table C16. Adult (18+) 1-year patient survival

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

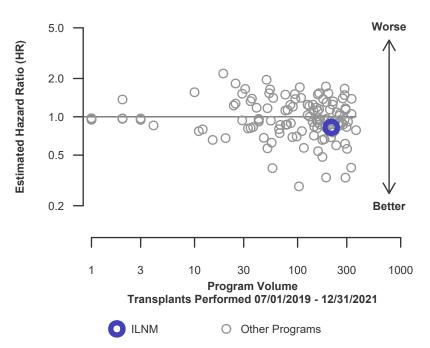
	ILNM	U.S.
Number of transplants evaluated	212	16,850
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	95.51%	93.73%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.18%	
Number of observed deaths during the first year after transplant	8	853
Number of expected deaths during the first year after transplant	10.11	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.40, 1.41]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.40, 1.41], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 17% lower risk







of patient death compared to an average program, but ILNM's performance could plausibly range from 60% reduced risk up to 41% increased risk.



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

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 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

	ILNM	U.S.
Number of transplants evaluated	193	15,791
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	95.06%	93.69%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	94.17%	
Number of observed deaths during the first year after transplant	8	808
Number of expected deaths during the first year after transplant	9.24	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.43, 1.52]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

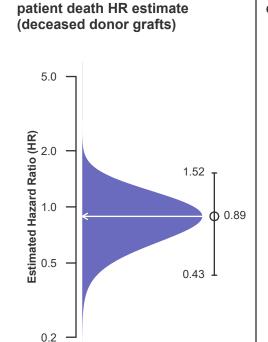
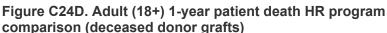
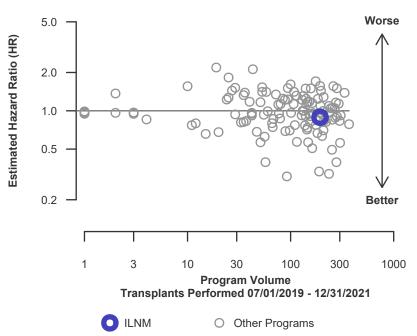


Figure C23D. Adult (18+) 1-year





^{**} The 95% credible interval, [0.43, 1.52], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 11% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 57% reduced risk up to 52% increased risk.



Center Code: ILNM

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

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

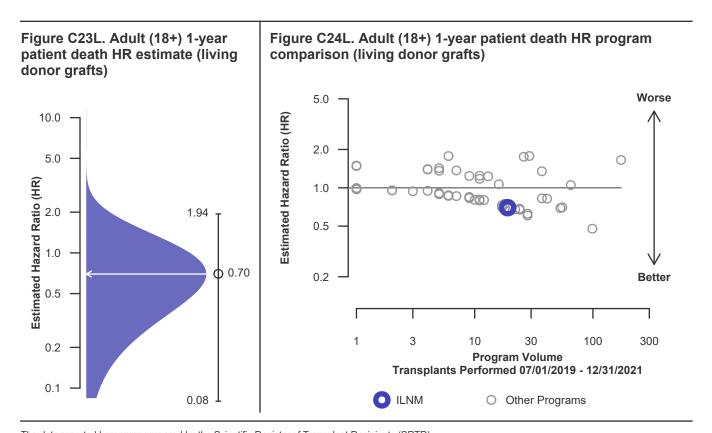
Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)

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

	ILNM	U.S.
Number of transplants evaluated	19	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	0.87	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.08, 1.94]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.08, 1.94], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 30% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 92% reduced risk up to 94% increased risk.





Center Code: ILNM

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

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

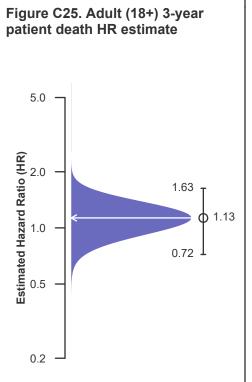
Table C17. Adult (18+) 3-year patient survival

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

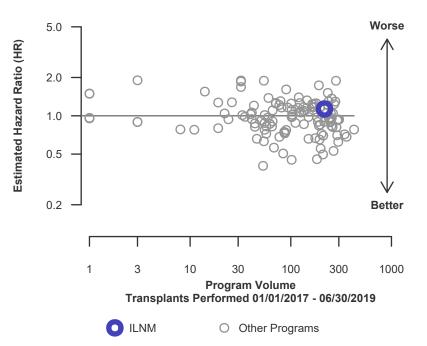
	ILNM	U.S.
Number of transplants evaluated	216	16,726
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	88.72%	88.65%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.44%	
Number of observed deaths during the first 3 years after transplant	22	1,459
Number of expected deaths during the first 3 years after transplant	19.22	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.72, 1.63]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.72, 1.63], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 13% higher risk







of patient death compared to an average program, but ILNM's performance could plausibly range from 28% reduced risk up to 63% increased risk.



Center Code: ILNM

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

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

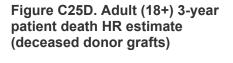
Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

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

	ILNM	U.S.
Number of transplants evaluated	195	15,889
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	87.98%	88.55%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.20%	
Number of observed deaths during the first 3 years after transplant	21	1,405
Number of expected deaths during the first 3 years after transplant	17.68	
Estimated hazard ratio*	1.17	
95% credible interval for the hazard ratio**	[0.74, 1.69]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.74, 1.69], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 17% higher risk



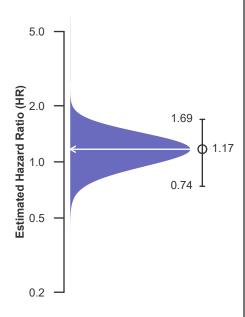
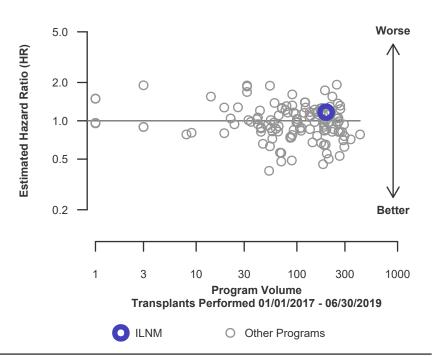


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)



of patient death compared to an average program, but ILNM's performance could plausibly range from 26% reduced risk up to 69% increased risk.



Center Code: ILNM

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

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

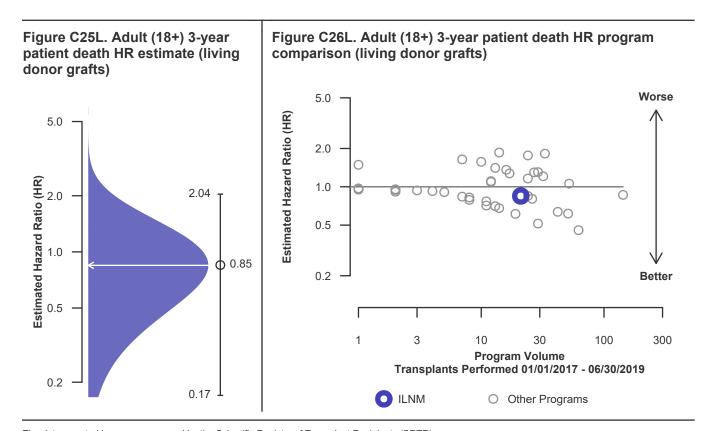
Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients)

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

	ILNM	U.S.
Number of transplants evaluated	21	837
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	95.24%	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	1.54	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.17, 2.04]	

^{*} The hazard ratio provides an estimate of how Northwestern Memorial Hospital'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 ILNM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.17, 2.04], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 15% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 83% reduced risk up to 104% increased risk.





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

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 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

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

Figure C27. Pediatric (<18) 1-month patient death HR estimate Figure C28. Pediatric (<18) 1-month patient death HR program comparison

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



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

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 C18D. Pediatric (<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

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

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

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

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



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

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C. Transplant Information

Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)
Single organ transplants performed between 07/01/2019 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 transplants relevant to this figure during 07/01/2019-12/31/2021



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

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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

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

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

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

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



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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

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

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

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

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



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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 transplants relevant to this figure during 07/01/2019-12/31/2021



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

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C. Transplant Information

Table C20. Pediatric (<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

This center did not perform any transplants relevant to this table during 01/01/2017-06/30/2019

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

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

This center did not perform any transplants relevant to this figure during 01/01/2017-06/30/2019



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

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C. Transplant Information

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

This center did not perform any transplants relevant to this table during 01/01/2017-06/30/2019

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

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

This center did not perform any transplants relevant to this figure during 01/01/2017-06/30/2019



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

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C. Transplant Information

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



Center Code: ILNM

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

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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	Transplants Performed		Liver Graft Failures		Estimated Liver Graft Survival	
	ILNM-TX1	USA	ILNM-TX1	USA	ILNM-TX1	USA
Kidney-Liver-Heart	1	14	0	3	100.0%	78.6%
Kidney-Liver	18	1,904	3	187	83.0%	89.7%
Liver-Heart	2	102	0	17	100.0%	82.9%

Pediatric (<18) Transplants

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

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

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Transp Perfor ILNM-TX1		Patient [ILNM-TX1	Deaths USA	Estima Patient S ILNM-TX1	
Kidney-Liver-Heart Kidney-Liver	1 18	14 1,904	0 3	3 176	100.0% 83.0%	78.6% 90.3%
Liver-Heart	2	102	0	16	100.0%	83.8%

Pediatric (<18) Transplants

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



Center Code: ILNM

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

Based on Data Available: October 31, 2022

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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	9	13	6	491	538	292
6-Month Follow-Up Donors due for follow-up	3	12	3	96	401	233
Timely clinical data	2 66.7%	11 91.7%	2 66.7%	84 87.5%	347 86.5%	206 88.4%
Timely lab data	2 66.7%	12 100.0%	2 66.7%	81 84.4%	350 87.3%	204 87.6%
12-Month Follow-Up Donors due for follow-up	3	13		95	484	
Timely clinical data	2 66.7%	12 92.3%		76 80.0%	410 84.7%	
Timely lab data	2 66.7%	12 92.3%		75 78.9%	405 83.7%	
24-Month Follow-Up Donors due for follow-up	9			445		
Timely clinical data	6 66.7%			315 70.8%		
Timely lab data	8 88.9%			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