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A. Program Summary

Figure A1. Waiting list and transplant activity

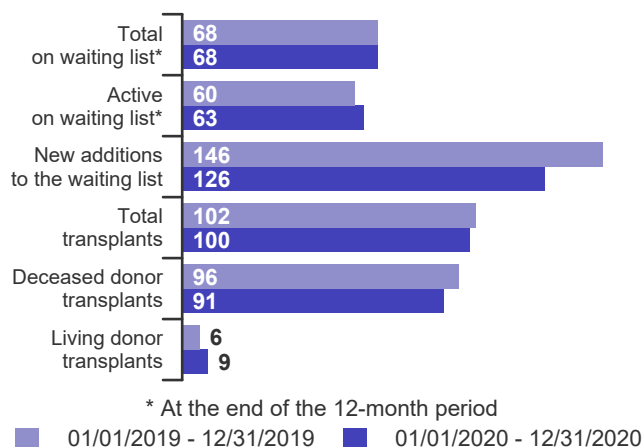


Table A1. Census of transplant recipients

Recipients	01/01/2019-12/31/2019	01/01/2020-12/31/2020
Transplanted at this center	102	100
Followed by this center*	1,022	1,149
...transplanted at this program	976	1,100
...transplanted elsewhere	46	49

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

Figure A2. Transplant rates
01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

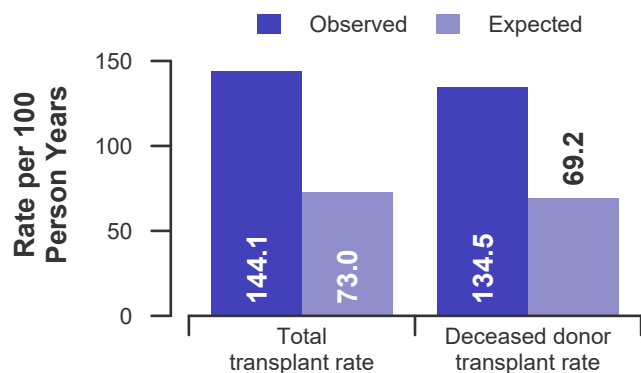


Figure A3. Pre-transplant mortality rates
01/01/2019 - 12/31/2020

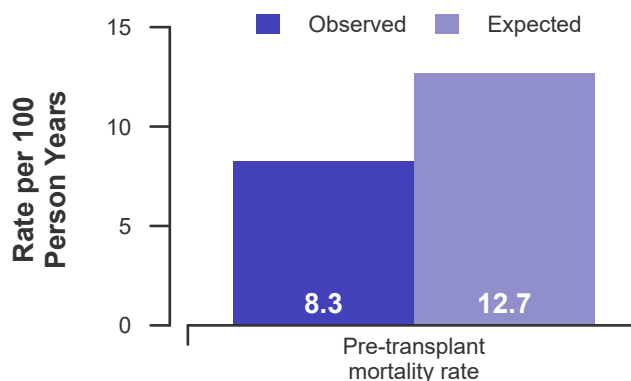


Figure A4. First-year adult graft and patient survival: 01/01/2018 - 03/12/2020

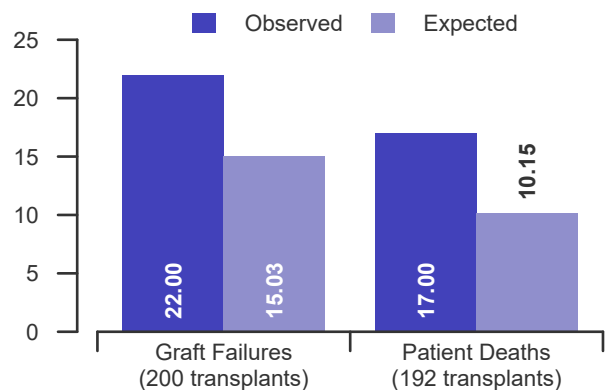


Figure A5. First-year pediatric graft and patient survival: 01/01/2018 - 03/12/2020

This center did not perform any transplants relevant to this figure during 01/01/2018-03/12/2020



B. Waiting List Information

Table B1. Waiting list activity summary: 01/01/2019 - 12/31/2020

Waiting List Registrations	Counts for this center		Activity for 01/01/2020 to 12/31/2020 as percent of registrants on waiting list on 01/01/2020		
	01/01/2019-12/31/2019	01/01/2020-12/31/2020	This Center (%)	OPTN Region (%)	U.S. (%)
On waiting list at start	56	68	100.0	100.0	100.0
Additions					
New listings at this center	146	126	185.3	120.6	100.1
Removals					
Transferred to another center	1	0	0.0	0.6	1.1
Received living donor transplant*	6	9	13.2	3.7	3.8
Received deceased donor transplant*	96	91	133.8	88.3	64.6
Died	4	2	2.9	8.4	8.5
Transplanted at another center	1	3	4.4	3.0	2.6
Deteriorated	16	15	22.1	12.4	9.5
Recovered	4	0	0.0	8.2	7.5
Other reasons	6	6	8.8	10.0	8.8
On waiting list at end of period	68	68	100.0	85.9	93.6

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



B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidates**Candidates registered on the waiting list between 01/01/2020 and 12/31/2020**

Demographic Characteristic	New Waiting List Registrations 01/01/2020 to 12/31/2020 (%)			All Waiting List Registrations on 12/31/2020 (%)		
	This Center (N=126)	OPTN Region (N=1,030)	U.S. (N=13,026)	This Center (N=68)	OPTN Region (N=734)	U.S. (N=12,187)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	73.0	72.9	68.4	77.9	75.6	67.0
African-American	9.5	8.1	7.5	7.4	6.8	7.1
Hispanic/Latino	12.7	12.5	18.1	8.8	10.6	19.2
Asian	4.8	4.2	4.4	5.9	4.8	5.3
Other	0.0	2.3	1.6	0.0	2.2	1.5
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	0.0	1.6	2.2	0.0	1.5	1.1
2-11 years	0.0	0.9	1.4	0.0	0.4	1.2
12-17 years	0.0	1.5	1.1	0.0	1.8	1.0
18-34 years	7.9	8.2	6.8	7.4	5.7	6.4
35-49 years	23.0	24.0	19.7	19.1	21.8	19.1
50-64 years	48.4	45.0	46.7	48.5	51.1	51.3
65-69 years	13.5	14.8	16.4	16.2	14.6	15.8
70+ years	7.1	4.2	5.6	8.8	3.1	4.1
Gender (%)						
Male	64.3	61.1	61.7	58.8	61.9	60.5
Female	35.7	38.9	38.3	41.2	38.1	39.5

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



B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates

Candidates registered on the waiting list between 01/01/2020 and 12/31/2020

Medical Characteristic	New Waiting List Registrations 01/01/2020 to 12/31/2020 (%)			All Waiting List Registrations on 12/31/2020 (%)		
	This Center (N=126)	OPTN Region (N=1,030)	U.S. (N=13,026)	This Center (N=68)	OPTN Region (N=734)	U.S. (N=12,187)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
O	50.8	44.2	46.2	45.6	45.2	48.9
A	30.2	37.6	37.6	39.7	42.2	38.9
B	11.9	12.5	11.9	10.3	9.4	9.9
AB	7.1	5.7	4.3	4.4	3.1	2.3
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	7.9	5.5	4.6	1.5	3.8	3.4
No	92.1	94.5	95.4	98.5	96.2	96.6
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Acute Hepatic Necrosis	0.8	8.7	5.1	0.0	2.5	1.8
Non-Cholestatic Cirrhosis	77.8	60.5	66.3	80.9	65.0	70.1
Cholestatic Liver Disease/Cirrhosis	11.9	7.1	6.8	10.3	9.9	7.7
Biliary Atresia	1.6	1.7	1.9	1.5	2.0	1.7
Metabolic Diseases	0.8	1.8	1.8	1.5	1.1	1.5
Malignant Neoplasms	0.0	14.2	12.4	0.0	14.3	11.5
Other	7.1	6.0	5.5	5.9	5.2	5.7
Missing	0.0	0.0	0.1	0.0	0.0	0.1
Medical Urgency Status/MELD/PELD at Listing (%)*						
Status 1A	1.6	3.9	2.7	0.0	0.1	0.2
Status 1B	0.0	0.2	0.4	0.0	0.1	0.0
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	7.4	1.0	0.4
MELD 6-10	22.2	15.3	16.8	27.9	21.8	29.7
MELD 11-14	14.3	10.9	12.5	27.9	21.8	23.1
MELD 15-20	22.2	18.8	20.6	25.0	30.8	25.6
MELD 21-30	23.8	24.4	23.5	7.4	14.4	12.8
MELD 31-40	14.3	17.2	12.3	4.4	1.6	0.8
PELD less than or equal to 10	0.0	0.7	1.6	0.0	1.2	1.7
PELD 11-14	0.0	0.3	0.3	0.0	0.1	0.2
PELD 15-20	0.0	0.1	0.3	0.0	0.3	0.1
PELD 21-30	0.0	0.4	0.4	0.0	0.0	0.1
PELD 31 or greater	0.0	0.0	0.2	0.0	0.0	0.0
Temporarily Inactive	0.0	4.7	4.4	0.0	6.7	5.0

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



B. Waiting List Information

Table B4. Transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	56	331	990	13,629
Person Years**	124.9	543.3	1,516.9	22,707.0
Removals for Transplant	180	613	1,308	15,764
Adult (18+) Candidates				
Count on waiting list at start*	56	317	954	13,111
Person Years**	124.9	523.6	1,464.2	21,912.0
Removals for transplant	180	582	1,240	14,778
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 January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.

Figure B1. Observed and expected transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

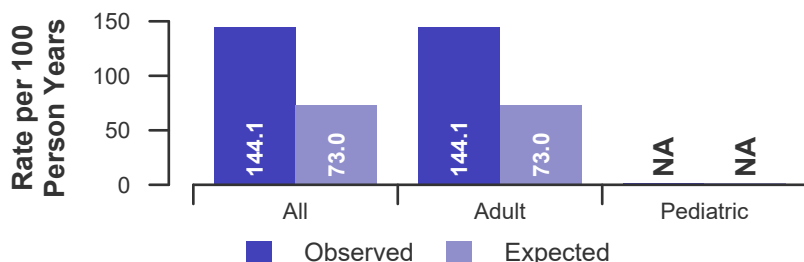


Figure B2. Transplant rate ratio estimate

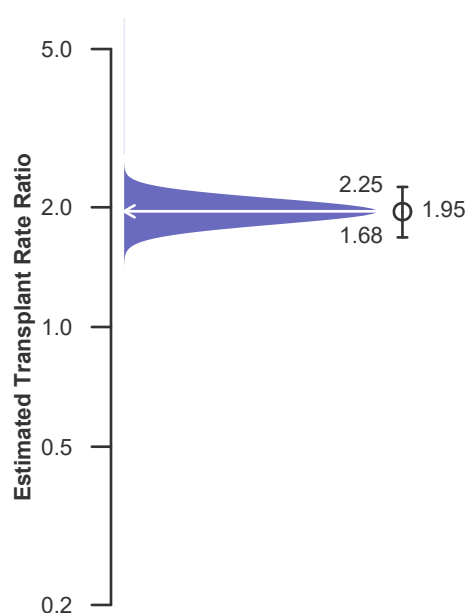
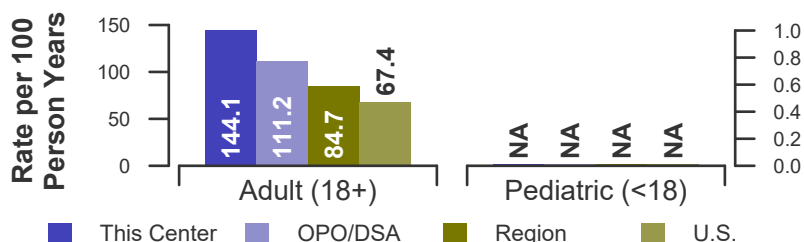


Figure B3. Observed adult (18+) and pediatric (<18) transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020





B. Waiting List Information

Table B4D. Deceased donor transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	56	331	990	13,629
Person Years**	124.9	543.3	1,516.9	22,707.0
Removals for Transplant	168	587	1,238	14,833
Adult (18+) Candidates				
Count on waiting list at start*	56	317	954	13,111
Person Years**	124.9	523.6	1,464.2	21,912.0
Removals for transplant	168	559	1,177	13,985
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 January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.

Figure B1D. Observed and expected deceased donor transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

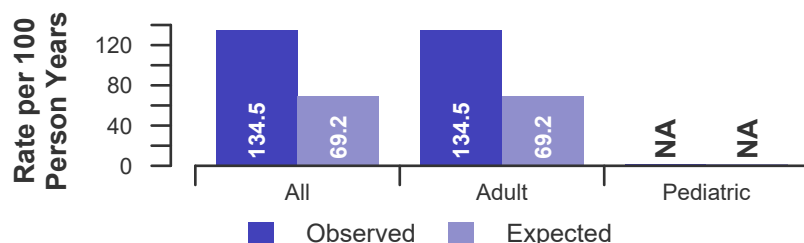


Figure B2D. Deceased donor transplant rate ratio estimate

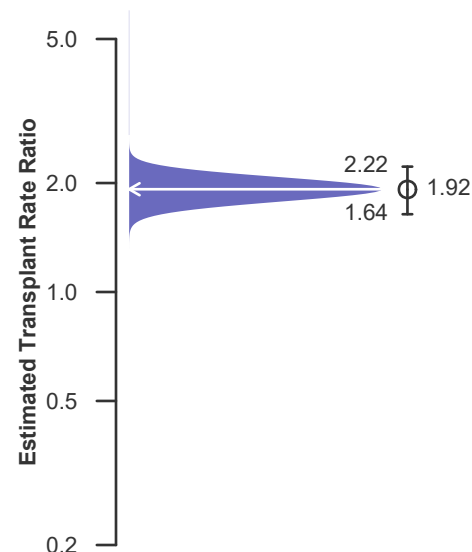
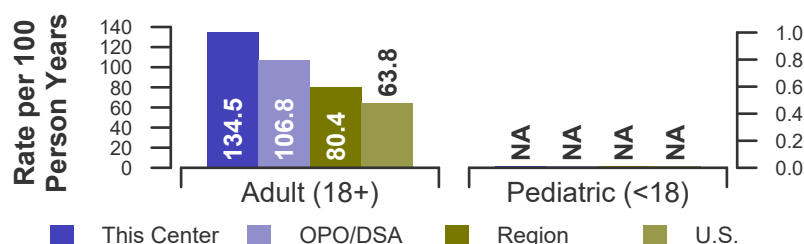


Figure B3D. Observed adult (18+) and pediatric (<18) deceased donor transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020





B. Waiting List Information

Table B5. Pre-transplant mortality rates: 01/01/2019 - 12/31/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	56	331	990	13,629
Person Years**	181.8	754.6	2,096.0	30,037.0
Number of deaths	15	79	278	3,531
Adult (18+) Candidates				
Count on waiting list at start*	56	317	954	13,111
Person Years**	181.8	730.5	2,029.1	29,053.4
Number of deaths	15	77	270	3,480
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 January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or December 31.

Figure B4. Observed and expected pre-transplant mortality rates: 01/01/2019 - 12/31/2020

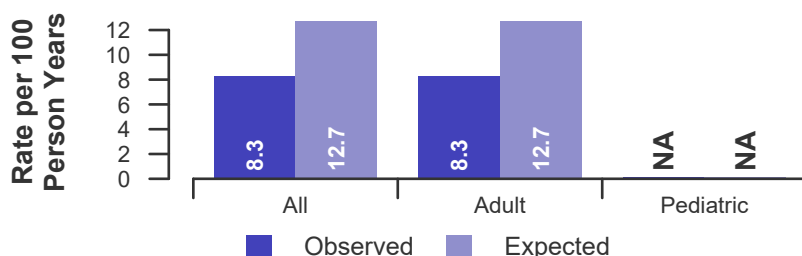


Figure B6. Observed adult (18+) and pediatric (<18) pre-transplant mortality rates: 01/01/2019 - 12/31/2020

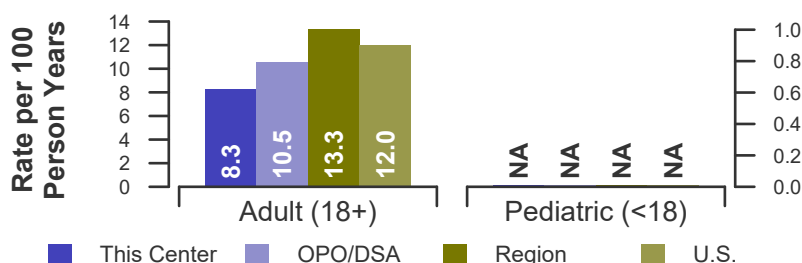
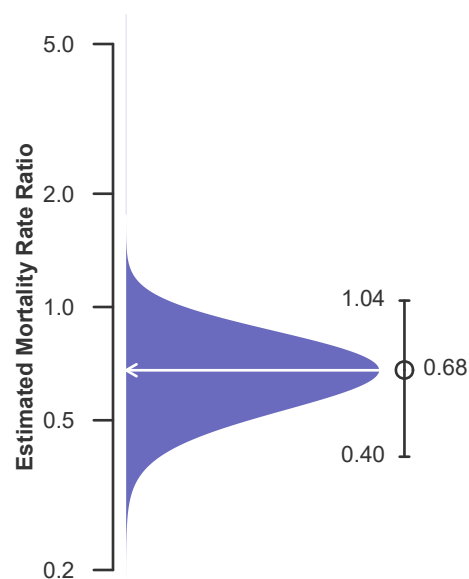


Figure B5. Pre-transplant mortality rate ratio estimate





B. Waiting List Information

Table B6. Rates of patient mortality after listing: 01/01/2019 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	636	2,062	5,138	63,714
Person-years*	596.9	1,903.7	4,734.0	59,036.5
Number of Deaths	32	120	334	3,999
Adult (18+) Patients				
Count at risk during the evaluation period	635	1,947	4,848	59,812
Person-years*	595.7	1,794.2	4,461.7	55,274.3
Number of Deaths	32	115	320	3,912
Pediatric (<18) Patients				
Count at risk during the evaluation period	1	115	290	3,902
Person-years*	1.2	109.4	272.3	3,762.3
Number of Deaths	0	5	14	87

* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2019, or from the date of first wait listing until death, reaching 5 years after listing or March 12, 2020.

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

Figure B7. Observed and expected rates of patient mortality after listing: 01/01/2019 - 03/12/2020

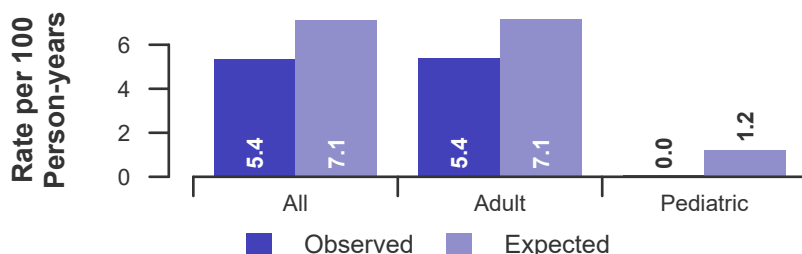


Figure B8. HR estimate of patient mortality after listing

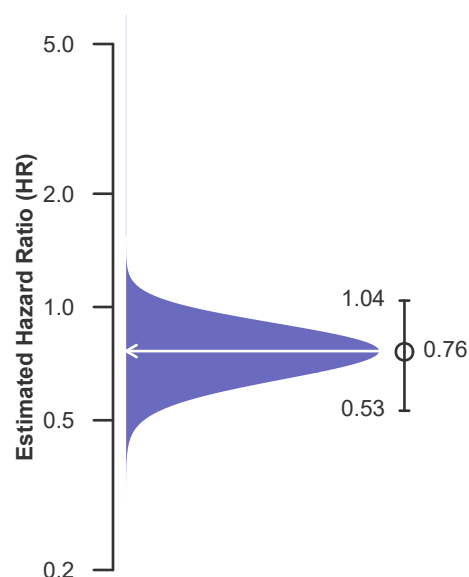
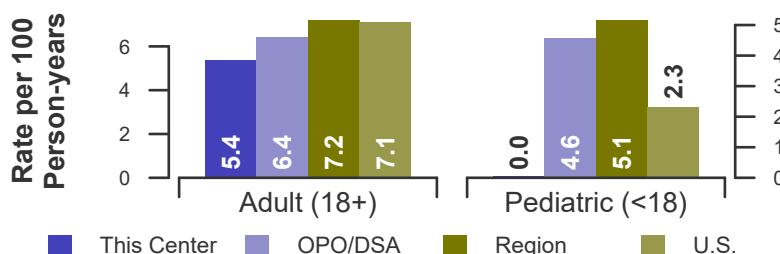


Figure B9. Observed adult (18+) and pediatric (<18) rates of patient mortality after listing: 01/01/2019 - 03/12/2020





B. Waiting List Information

Table B7. Waiting list candidate status after listing
Candidates registered on waiting list between 07/01/2018 and 06/30/2019

Waiting list status (survival status)	This Center (N=145)			U.S. (N=13,076)		
	Months Since Listing			Months Since Listing		
	6	12	18	6	12	18
Alive on waiting list (%)	31.7	11.0	6.9	44.7	25.6	17.5
Died on the waiting list without transplant (%)	2.1	3.4	3.4	4.6	6.1	6.9
Removed without transplant (%):						
Condition worsened (status unknown)	10.3	12.4	13.1	4.0	5.9	6.8
Condition improved (status unknown)	1.4	2.1	2.1	1.3	2.1	2.8
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.3	0.5
Other	2.1	2.8	2.8	1.9	3.2	4.2
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	4.1	4.1	2.8	2.3	2.9	2.0
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.1	0.1
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.7	0.7	0.0	0.1	0.1
Status Yet Unknown**	0.0	0.0	1.4	0.0	0.2	1.3
Transplant (deceased donor) (%):						
Functioning (alive)	43.4	53.8	44.8	36.4	43.0	33.3
Failed-Retransplanted (alive)	0.7	0.7	1.4	0.3	0.5	0.6
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.0	0.0
Died	3.4	8.3	8.3	1.6	2.8	3.8
Status Yet Unknown*	0.7	0.7	12.4	2.3	6.6	19.3
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.6	0.8
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	5.5	12.4	12.4	6.3	9.0	10.8
Total % known died or removed as unstable	15.9	24.8	25.5	10.3	14.9	17.6
Total % removed for transplant	52.4	68.3	71.7	43.0	56.2	60.5
Total % with known functioning transplant (alive)	47.6	57.9	47.6	38.7	45.9	35.2

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



B. Waiting List Information

Table B7S1. Medical urgency status 1 candidate status after listing
Candidates registered on the waiting list between 07/01/2018 and 06/30/2019

Waiting list status (survival status)	This Center (N=2)			U.S. (N=469)		
	Months Since listing			Months Since listing		
	6	12	18	6	12	18
Alive on waiting list (%)	0.0	0.0	0.0	3.2	1.9	0.9
Died on the waiting list without transplant (%)	0.0	0.0	0.0	9.2	9.4	9.4
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	6.8	6.8	6.8
Condition improved (status unknown)	50.0	50.0	50.0	15.6	16.2	17.1
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.2	0.2
Other	0.0	0.0	0.0	1.5	1.5	1.5
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	0.6	0.6	0.2
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.2	0.2	0.2
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.0	0.4
Transplant (deceased donor) (%):						
Functioning (alive)	0.0	0.0	0.0	55.2	47.3	36.9
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.4	0.4	0.4
Failed-alive not retransplanted	0.0	0.0	0.0	0.4	0.0	0.0
Died	50.0	50.0	50.0	4.5	5.1	6.4
Status Yet Unknown*	0.0	0.0	0.0	1.5	9.6	19.0
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.6	0.6	0.6
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	50.0	50.0	50.0	13.9	14.7	16.0
Total % known died or removed as unstable	50.0	50.0	50.0	20.7	21.5	22.8
Total % removed for transplant	50.0	50.0	50.0	62.9	63.3	63.5
Total % with known functioning transplant (alive)	0.0	0.0	0.0	55.9	48.0	37.1

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



B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics
Candidates registered on the waiting list between 01/01/2015 and 12/31/2017

Characteristic	N	Percent transplanted at time periods since listing					United States				
		This Center									
		30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years	
All	341	24.6	69.2	70.7	70.7	37,243	19.4	48.5	56.0	57.8	
Ethnicity/Race*											
White	245	23.3	70.6	71.0	71.0	25,551	19.4	49.6	56.7	58.3	
African-American	18	16.7	72.2	72.2	72.2	3,421	22.4	52.3	60.0	61.6	
Hispanic/Latino	59	30.5	67.8	72.9	72.9	5,929	18.5	43.4	51.6	53.9	
Asian	18	33.3	55.6	61.1	61.1	1,748	17.0	41.8	53.4	55.4	
Other	1	0.0	0.0	0.0	0.0	594	19.7	47.8	55.1	56.6	
Unknown	0	--	--	--	--	0	--	--	--	--	
Age											
<2 years	0	--	--	--	--	891	24.0	69.2	73.5	74.7	
2-11 years	0	--	--	--	--	735	27.6	68.8	74.0	75.9	
12-17 years	1	100.0	100.0	100.0	100.0	462	21.6	55.4	64.1	65.8	
18-34 years	22	27.3	59.1	59.1	59.1	2,120	28.0	50.3	56.3	58.7	
35-49 years	34	44.1	82.4	85.3	85.3	6,035	27.5	51.2	56.6	58.4	
50-64 years	187	23.5	71.1	71.7	71.7	20,021	17.5	47.0	55.1	57.0	
65-69 years	75	21.3	62.7	66.7	66.7	5,723	13.9	45.0	53.6	55.1	
70+ years	22	9.1	63.6	63.6	63.6	1,256	13.6	44.0	51.2	51.6	
Gender											
Male	228	21.9	69.3	70.6	70.6	23,450	19.1	49.7	57.6	59.4	
Female	113	30.1	69.0	70.8	70.8	13,793	20.0	46.5	53.2	55.0	

* 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%.



B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics
Candidates registered on the waiting list between 01/01/2015 and 12/31/2017

Characteristic	Percent transplanted at time periods since listing									
	This Center					United States				
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	341	24.6	69.2	70.7	70.7	37,243	19.4	48.5	56.0	57.8
Blood Type										
O	159	23.9	66.0	69.2	69.2	17,395	18.9	46.5	54.3	56.1
A	126	23.8	72.2	72.2	72.2	13,691	18.3	47.1	54.9	56.5
B	42	31.0	71.4	71.4	71.4	4,678	20.9	54.1	61.1	62.9
AB	14	21.4	71.4	71.4	71.4	1,479	30.5	67.0	70.8	72.1
Previous Transplant										
Yes	16	37.5	43.8	50.0	50.0	1,956	28.0	50.5	56.0	57.5
No	325	24.0	70.5	71.7	71.7	35,287	18.9	48.4	56.0	57.8
Primary Disease										
Acute Hepatic Necrosis	10	50.0	60.0	60.0	60.0	1,523	47.9	56.5	59.4	60.3
Non-Cholestatic Cirrhosis	280	21.8	69.3	70.4	70.4	24,903	19.8	47.0	53.6	55.3
Cholestatic Liver Disease/Cirrhosis	29	37.9	82.8	82.8	82.8	2,683	17.0	48.2	56.4	59.3
Biliary Atresia	2	0.0	50.0	50.0	50.0	744	16.1	64.9	72.2	74.1
Metabolic Diseases	9	44.4	77.8	88.9	88.9	906	22.5	62.8	68.9	70.5
Malignant Neoplasms	0	--	--	--	--	4,537	8.6	48.7	62.1	63.6
Other	11	27.3	36.4	45.5	45.5	1,935	21.1	49.3	57.7	59.5
Missing	0	--	--	--	--	12	8.3	16.7	25.0	25.0
Medical Urgency Status/MELD/PELD at Listing*										
Status 1	0	--	--	--	--	0	--	--	--	--
Status 1A	7	28.6	28.6	28.6	28.6	1,133	60.5	61.3	61.3	61.3
Status 1B	0	--	--	--	--	161	45.3	82.6	82.6	82.6
Status 2A	0	--	--	--	--	0	--	--	--	--
Status 2B	0	--	--	--	--	0	--	--	--	--
Status 3	0	--	--	--	--	0	--	--	--	--
MELD 6-10	74	0.0	62.2	64.9	64.9	7,469	2.9	36.7	50.5	52.8
MELD 11-14	44	6.8	68.2	68.2	68.2	5,521	2.6	31.8	42.6	45.3
MELD 15-20	79	11.4	72.2	75.9	75.9	8,027	7.8	41.5	50.5	53.1
MELD 21-30	86	45.3	76.7	76.7	76.7	7,846	25.7	58.6	61.9	62.9
MELD 31-40	36	72.2	77.8	77.8	77.8	3,651	66.8	75.9	76.3	76.4
PELD less than or equal to 10	0	--	--	--	--	713	11.5	65.8	73.1	75.9
PELD 11-14	0	--	--	--	--	103	14.6	74.8	82.5	84.5
PELD 15-20	0	--	--	--	--	156	13.5	71.8	77.6	78.2
PELD 21-30	0	--	--	--	--	167	31.7	75.4	77.8	77.8
PELD 31 or greater	0	--	--	--	--	57	64.9	84.2	84.2	84.2
Temporarily Inactive	15	33.3	46.7	46.7	46.7	2,239	36.8	53.6	58.3	58.8

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



B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 01/01/2015 and 06/30/2020

Percentile	Center	Months to Transplant**		U.S.
		OPO/DSA	Region	
5th	0.1	0.1	0.2	0.1
10th	0.2	0.2	0.3	0.3
25th	0.7	1.1	2.0	1.5
50th (median time to transplant)	4.0	7.7	10.3	9.1
75th	14.6	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 12/31/2020. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



B. Waiting List Information

Table B11. Offer Acceptance Practices: 01/01/2020 - 12/31/2020

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	2,241	6,357	18,695	273,328
Number of Acceptances	85	311	671	7,441
Expected Acceptances	75.5	264.3	743.6	7,431.4
Offer Acceptance Ratio*	1.12	1.18	0.90	1.00
95% Credible Interval**	[0.90, 1.37]	--	--	--
PHS increased infectious risk				
Number of Offers	759	2,000	5,297	66,157
Number of Acceptances	31	92	191	2,131
Expected Acceptances	29.8	88.7	243.3	2,126.1
Offer Acceptance Ratio*	1.04	1.04	0.79	1.00
95% Credible Interval**	[0.71, 1.42]	--	--	--
DCD donor				
Number of Offers	724	1,555	4,364	67,752
Number of Acceptances	10	27	55	744
Expected Acceptances	9.3	24.6	65.9	746.8
Offer Acceptance Ratio*	1.06	1.09	0.84	1.00
95% Credible Interval**	[0.55, 1.74]	--	--	--
HCV+ donor				
Number of Offers	177	323	602	9,084
Number of Acceptances	4	10	20	430
Expected Acceptances	7.7	14.8	26.6	430.4
Offer Acceptance Ratio*	0.62	0.71	0.77	1.00
95% Credible Interval**	[0.23, 1.21]	--	--	--
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	1,432	3,440	9,706	173,055
Number of Acceptances	8	20	43	851
Expected Acceptances	7.0	23.3	48.2	862.9
Offer Acceptance Ratio*	1.11	0.87	0.90	0.99
95% Credible Interval**	[0.53, 1.90]	--	--	--
Donor more than 500 miles away				
Number of Offers	882	2,022	7,202	92,267
Number of Acceptances	4	16	54	854
Expected Acceptances	5.4	21.2	75.5	821.9
Offer Acceptance Ratio*	0.81	0.78	0.72	1.04
95% Credible Interval**	[0.30, 1.58]	--	--	--

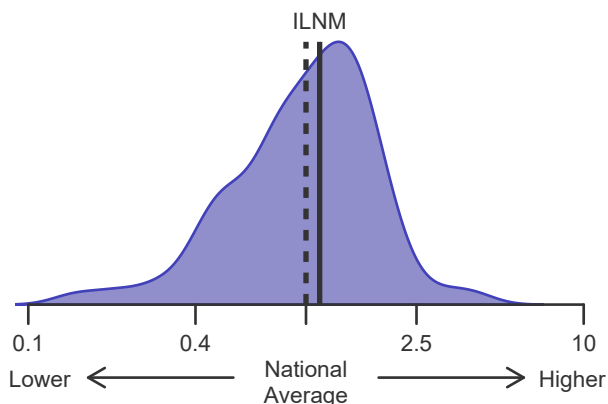
* The offer acceptance ratio estimates the relative offer acceptance practice of Northwestern Memorial Hospital (ILNM) compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an 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, [0.90, 1.37], indicates the location of ILNM's true offer acceptance ratio with 95% probability. The best estimate is 12% more likely to accept an offer compared to national acceptance behavior, but ILNM's performance could plausibly range from 10% reduced acceptance up to 37% higher acceptance.



B. Waiting List Information

Figure B10. Offer acceptance: Overall



**Figure B11. Offer acceptance:
PHS increased infectious risk**

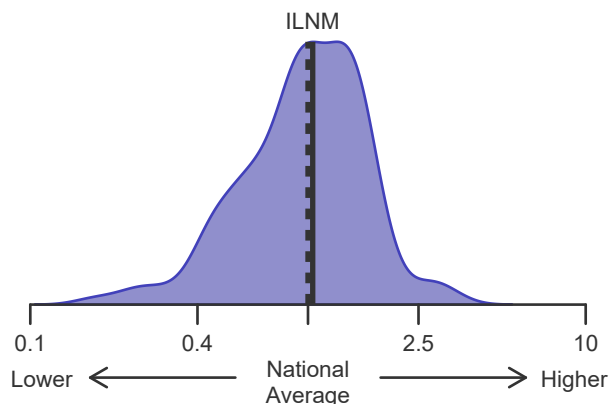


Figure B12. Offer acceptance: DCD Donor

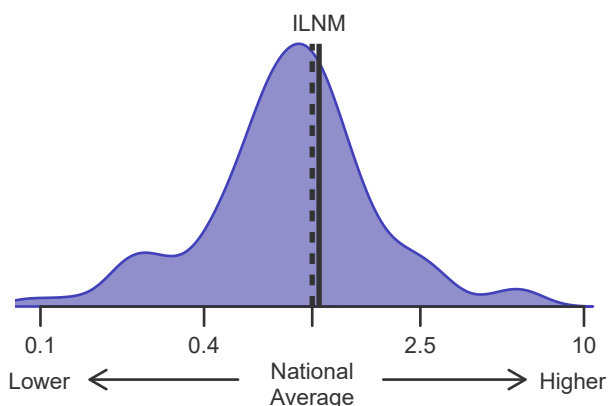


Figure B13. Offer acceptance: HCV+ Donor

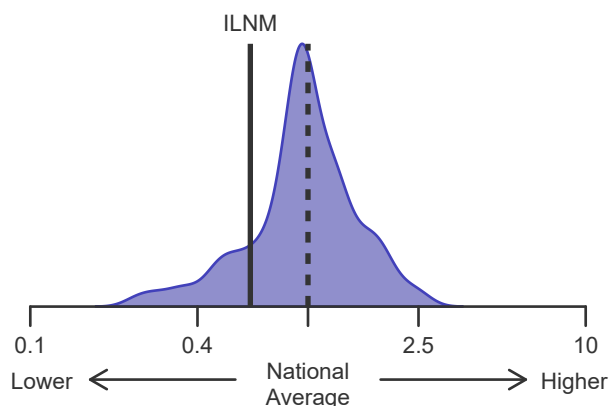
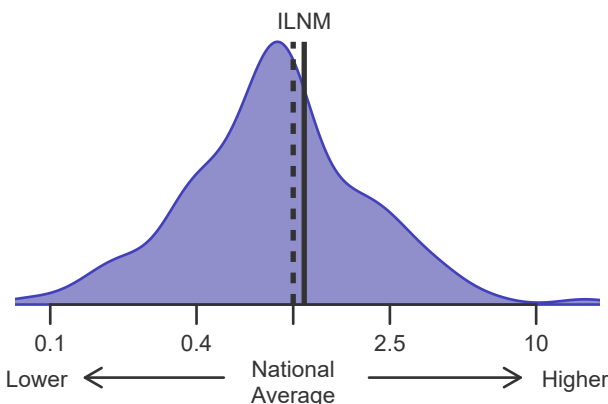
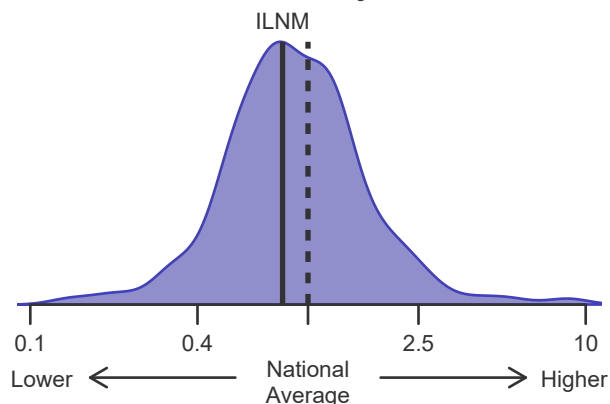


Figure B14. Offer acceptance: Offer number > 50



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





C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics**Patients transplanted between 01/01/2020 and 12/31/2020**

Characteristic	Percentage in each category		
	Center (N=91)	Region (N=754)	U.S. (N=8,415)
Ethnicity/Race (%)*			
White	72.5	72.7	68.2
African-American	6.6	7.0	8.1
Hispanic/Latino	17.6	14.5	17.5
Asian	3.3	3.6	4.6
Other	0.0	2.3	1.6
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	1.7	2.1
2-11 years	0.0	1.1	1.7
12-17	0.0	0.7	1.4
18-34	5.5	7.3	6.6
35-49 years	23.1	21.8	19.8
50-64 years	44.0	44.8	46.0
65-69 years	17.6	18.0	16.6
70+ years	9.9	4.6	5.8
Gender (%)			
Male	71.4	65.3	63.1
Female	28.6	34.7	36.9

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



C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics**Patients transplanted between 01/01/2020 and 12/31/2020**

Characteristic	Percentage in each category		
	Center (N=9)	Region (N=32)	U.S. (N=491)
Ethnicity/Race (%)*			
White	77.8	78.1	77.4
African-American	11.1	9.4	4.7
Hispanic/Latino	11.1	9.4	12.8
Asian	0.0	0.0	3.7
Other	0.0	3.1	1.4
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	9.4	7.5
2-11 years	0.0	3.1	5.1
12-17	0.0	0.0	0.8
18-34	11.1	12.5	10.8
35-49 years	22.2	31.2	16.9
50-64 years	22.2	28.1	37.5
65-69 years	33.3	9.4	13.4
70+ years	11.1	6.2	7.9
Gender (%)			
Male	44.4	59.4	51.5
Female	55.6	40.6	48.5

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



C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics
Patients transplanted between 01/01/2020 and 12/31/2020

Characteristic	Percentage in each category		
	Center (N=91)	Region (N=754)	U.S. (N=8,415)
Blood Type (%)			
O	47.3	41.2	45.2
A	33.0	38.6	36.3
B	14.3	14.5	13.5
AB	5.5	5.7	5.0
Previous Transplant (%)			
Yes	7.7	5.6	4.9
No	92.3	94.4	95.1
Body Mass Index (%)			
0-20	3.3	9.0	10.8
21-25	26.4	24.4	26.1
26-30	37.4	29.2	29.2
31-35	22.0	19.9	17.9
36-40	7.7	9.4	9.2
41+	2.2	5.2	4.4
Unknown	1.1	2.9	2.4
Primary Disease (%)			
Acute Hepatic Necrosis	1.1	8.0	4.9
Non-Cholestatic Cirrhosis	79.1	60.3	65.8
Cholestatic Liver Disease/Cirrhosis	14.3	7.4	7.4
Biliary Atresia	2.2	2.3	2.0
Metabolic Diseases	2.2	2.5	2.6
Malignant Neoplasms	0.0	16.6	13.7
Other	1.1	2.9	3.5
Missing	0.0	0.0	0.1
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	2.2	3.8	2.9
Status 1B	0.0	0.7	1.1
MELD 6-10	17.6	12.9	11.2
MELD 11-14	12.1	6.4	6.6
MELD 15-20	12.1	11.4	15.2
MELD 21-30	29.7	33.2	30.4
MELD 31-40	24.2	25.1	23.1
PELD less than or equal to 10	0.0	0.5	1.1
PELD 11-14	0.0	0.3	0.2
PELD 15-20	0.0	0.4	0.5
PELD 21-30	0.0	0.3	0.4
PELD 31 or greater	0.0	0.4	0.2
Temporarily Inactive	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	67.0	60.2	61.0
Hospitalized	23.1	23.3	23.5
ICU	9.9	16.4	15.2
Unknown	0.0	0.0	0.2

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



C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics
Patients transplanted between 01/01/2020 and 12/31/2020

Characteristic	Percentage in each category		
	Center (N=9)	Region (N=32)	U.S. (N=491)
Blood Type (%)			
O	22.2	37.5	44.6
A	77.8	56.2	44.8
B	0.0	6.2	8.1
AB	0.0	0.0	2.4
Previous Transplant (%)			
Yes	0.0	0.0	1.0
No	100.0	100.0	99.0
Body Mass Index (%)			
0-20	0.0	21.9	20.0
21-25	66.7	34.4	29.3
26-30	33.3	34.4	29.3
31-35	0.0	9.4	14.7
36-40	0.0	0.0	4.5
41+	0.0	0.0	1.6
Unknown	0.0	0.0	0.6
Primary Disease (%)			
Acute Hepatic Necrosis	0.0	6.2	1.6
Non-Cholestatic Cirrhosis	55.6	37.5	51.5
Cholestatic Liver Disease/Cirrhosis	44.4	31.2	20.0
Biliary Atresia	0.0	3.1	7.7
Metabolic Diseases	0.0	3.1	3.1
Malignant Neoplasms	0.0	12.5	11.2
Other	0.0	6.2	4.9
Missing	0.0	0.0	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	0.0	6.2	1.0
Status 1B	0.0	0.0	1.6
MELD 6-10	11.1	12.5	21.4
MELD 11-14	22.2	18.8	20.8
MELD 15-20	44.4	40.6	27.7
MELD 21-30	11.1	12.5	15.5
MELD 31-40	0.0	0.0	0.4
PELD less than or equal to 10	0.0	3.1	3.9
PELD 11-14	0.0	0.0	1.2
PELD 15-20	0.0	0.0	1.6
PELD 21-30	0.0	0.0	2.0
PELD 31 or greater	0.0	3.1	0.6
Temporarily Inactive	0.0	0.0	1.8
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	100.0	78.1	88.8
Hospitalized	0.0	6.2	8.4
ICU	0.0	15.6	2.9
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C3D. Deceased donor characteristics**Transplants performed between 01/01/2020 and 12/31/2020**

Donor Characteristic	Percentage in each category		
	Center (N=91)	Region (N=754)	U.S. (N=8,415)
Cause of Death (%)			
Deceased: Stroke	20.9	24.9	25.2
Deceased: MVA	9.9	10.1	12.5
Deceased: Other	69.2	65.0	62.3
Ethnicity/Race (%)*			
White	62.6	69.4	63.1
African-American	23.1	19.5	18.4
Hispanic/Latino	8.8	7.8	14.8
Asian	5.5	1.9	2.7
Other	0.0	1.5	1.0
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.3	1.0
2-11 years	1.1	1.5	2.1
12-17	2.2	4.4	4.3
18-34	38.5	32.8	33.7
35-49 years	26.4	25.9	27.7
50-64 years	27.5	27.5	24.3
65-69 years	3.3	3.3	3.8
70+ years	1.1	4.5	3.0
Gender (%)			
Male	73.6	61.0	61.5
Female	26.4	39.0	38.5
Blood Type (%)			
O	50.5	45.1	49.1
A	35.2	39.9	36.8
B	11.0	11.7	11.3
AB	3.3	3.3	2.8
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C3L. Living donor characteristics**Transplants performed between 01/01/2020 and 12/31/2020**

Donor Characteristic	Percentage in each category		
	Center (N=9)	Region (N=32)	U.S. (N=491)
Ethnicity/Race (%)*			
White	77.8	75.0	79.4
African-American	11.1	9.4	3.9
Hispanic/Latino	11.1	9.4	11.6
Asian	0.0	0.0	2.9
Other	0.0	6.2	2.2
Not Reported	0.0	0.0	0.0
Age (%)			
0-11 years	0.0	0.0	0.4
12-17	0.0	0.0	0.0
18-34	33.3	40.6	42.6
35-49 years	66.7	50.0	41.8
50-64 years	0.0	9.4	15.1
65-69 years	0.0	0.0	0.2
70+ years	0.0	0.0	0.0
Gender (%)			
Male	33.3	34.4	42.0
Female	66.7	65.6	58.0
Blood Type (%)			
O	66.7	53.1	61.9
A	33.3	43.8	33.0
B	0.0	3.1	3.9
AB	0.0	0.0	1.2
Unknown	0.0	0.0	0.0

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



C. Transplant Information

Table C4D. Deceased donor transplant characteristics
Transplants performed between 01/01/2020 and 12/31/2020

Transplant Characteristic	Percentage in each category		
	Center (N=91)	Region (N=754)	U.S. (N=8,415)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-5 hr	66.0	70.4	65.7
Deceased: 6-10 hr	34.0	27.4	31.6
Deceased: 11-15 hr	0.0	1.9	1.1
Deceased: 16-20 hr	0.0	0.3	0.1
Deceased: 21+ hr	0.0	0.0	0.0
Not Reported	0.0	0.0	1.4
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-5 hr	47.4	55.9	44.9
Deceased: 6-10 hr	44.7	40.0	51.1
Deceased: 11-15 hr	2.6	2.7	2.1
Deceased: 16-20 hr	0.0	0.2	0.1
Deceased: 21+ hr	0.0	0.2	0.1
Not Reported	5.3	0.9	1.6
Procedure Type (%)			
Single organ	93.4	90.2	89.5
Multi organ	6.6	9.8	10.5
Donor Location (%)			
Local Donation Service Area (DSA)	58.2	41.6	37.7
Another Donation Service Area (DSA)	41.8	58.4	62.3
Median Time in Hospital After Transplant*	6.0 Days	11.0 Days	10.0 Days

* Multi organ transplants are excluded from this statistic.



C. Transplant Information

Table C4L. Living donor transplant characteristics
Transplants performed between 01/01/2020 and 12/31/2020

Transplant Characteristic	Percentage in each category		
	Center (N=9)	Region (N=32)	U.S. (N=491)
Relation with Donor (%)			
Related	55.6	59.4	55.2
Unrelated	44.4	40.6	44.6
Not Reported	0.0	0.0	0.2
Procedure Type (%)			
Single organ	100.0	100.0	100.0
Multi organ	0.0	0.0	0.0
Median Time in Hospital After Transplant*	7.0 Days	12.0 Days	10.0 Days

* Multi organ transplants are excluded from this statistic.



C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	200	16,030
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	94.94%	96.79%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.60%	--
Number of observed graft failures (including deaths) during the first month after transplant	10	508
Number of expected graft failures (including deaths) during the first month after transplant	6.71	--
Estimated hazard ratio*	1.38	--
95% credible interval for the hazard ratio**	[0.71, 2.26]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, 2.26], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 38% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 29% reduced risk up to 126% increased risk.

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

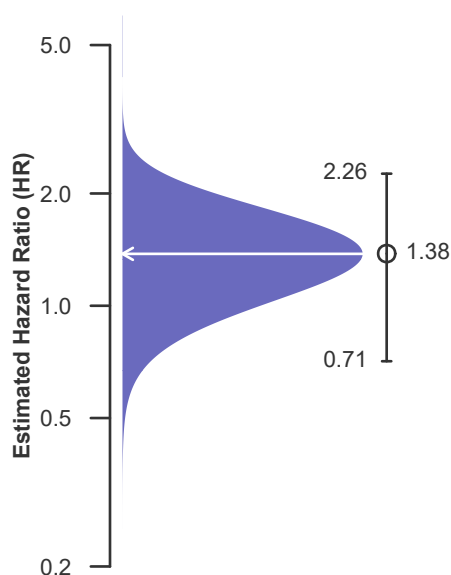
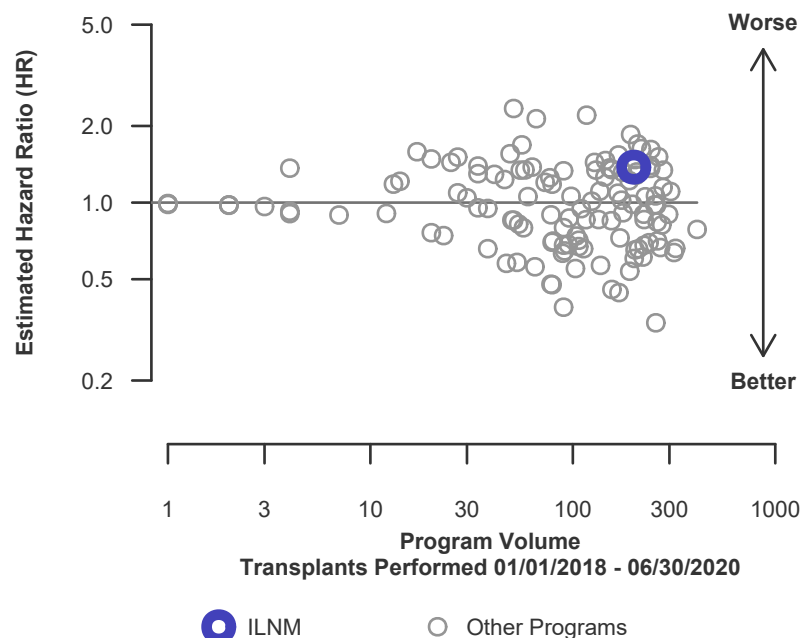


Figure C2. Adult (18+) 1-month graft failure HR program comparison





C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	184	15,160
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	94.50%	96.75%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.53%	--
Number of observed graft failures (including deaths) during the first month after transplant	10	486
Number of expected graft failures (including deaths) during the first month after transplant	6.29	--
Estimated hazard ratio*	1.45	--
95% credible interval for the hazard ratio**	[0.75, 2.37]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.75, 2.37], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 45% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 25% reduced risk up to 137% increased risk.

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

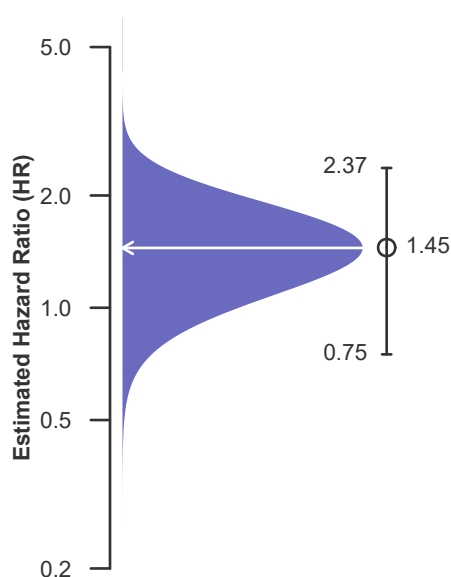
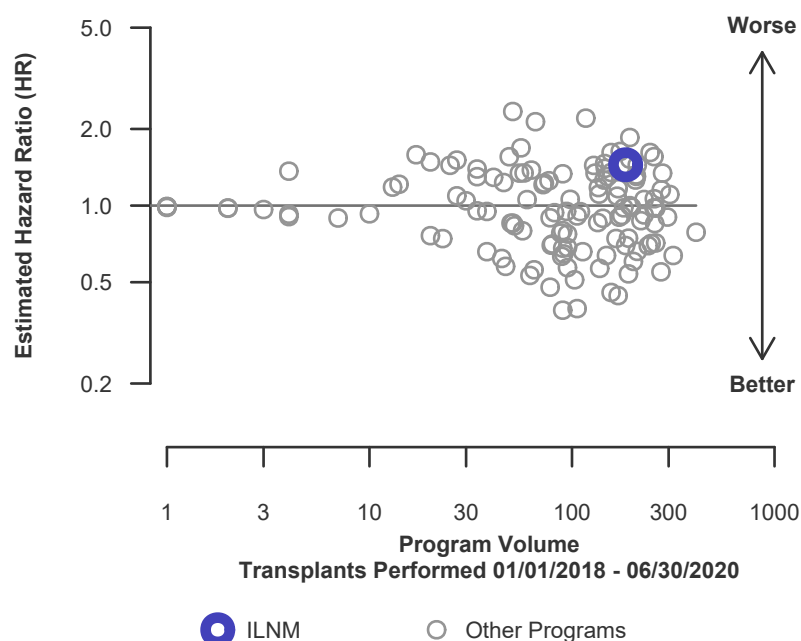


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	16	870
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.43%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.44%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	22
Number of expected graft failures (including deaths) during the first month after transplant	0.42	--
Estimated hazard ratio*	0.83	--
95% credible interval for the hazard ratio**	[0.10, 2.31]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, 2.31], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 90% reduced risk up to 131% increased risk.

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

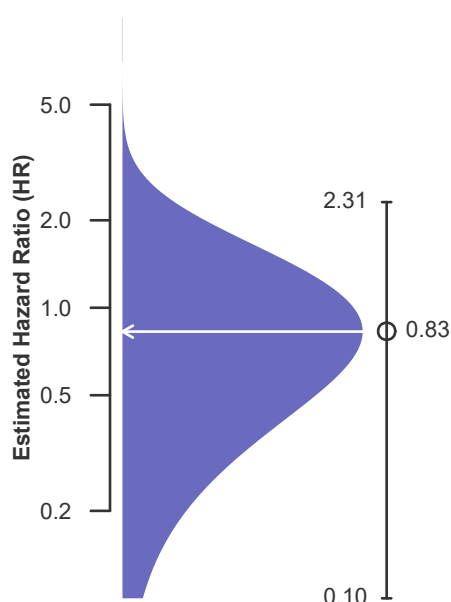
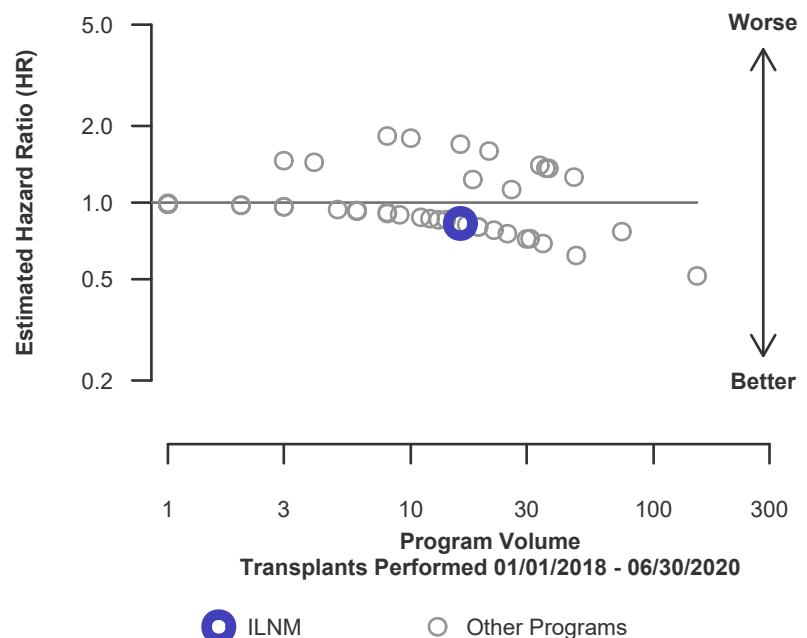


Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison





C. Transplant Information

Table C6. Adult (18+) 1-year survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	200	16,030
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	87.12%	92.14%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.26%	--
Number of observed graft failures (including deaths) during the first year after transplant	22	1,092
Number of expected graft failures (including deaths) during the first year after transplant	15.03	--
Estimated hazard ratio*	1.41	--
95% credible interval for the hazard ratio**	[0.90, 2.03]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.90, 2.03], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 41% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 10% reduced risk up to 103% increased risk.

Figure C3. Adult (18+) 1-year graft failure HR estimate

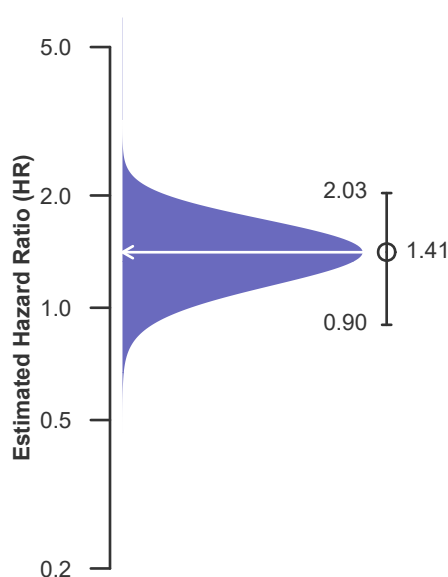
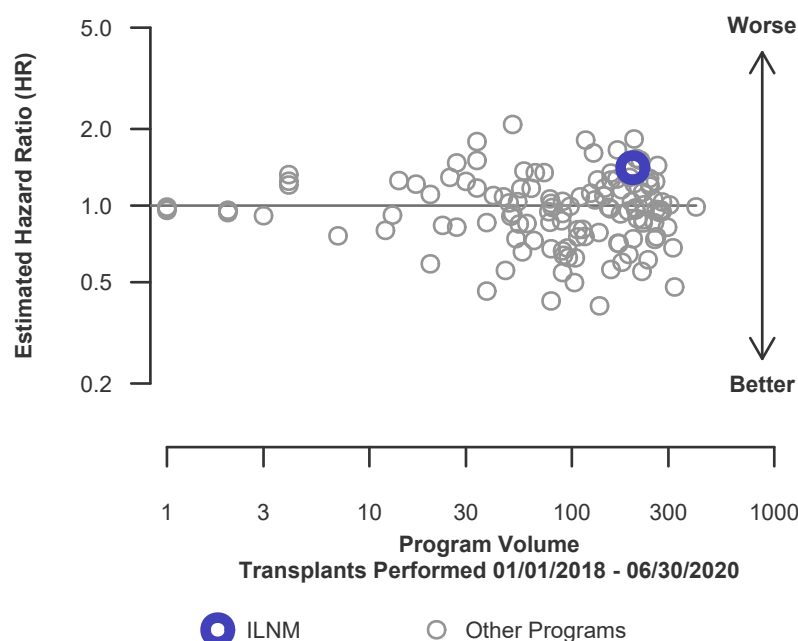


Figure C4. Adult (18+) 1-year graft failure HR program comparison





C. Transplant Information

Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	184	15,160
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	86.72%	92.09%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.11%	--
Number of observed graft failures (including deaths) during the first year after transplant	21	1,041
Number of expected graft failures (including deaths) during the first year after transplant	14.01	--
Estimated hazard ratio*	1.44	--
95% credible interval for the hazard ratio**	[0.91, 2.08]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.91, 2.08], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 44% higher risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 9% reduced risk up to 108% increased risk.

Figure C3D. Adult (18+) 1-year deceased donor graft failure HR estimate

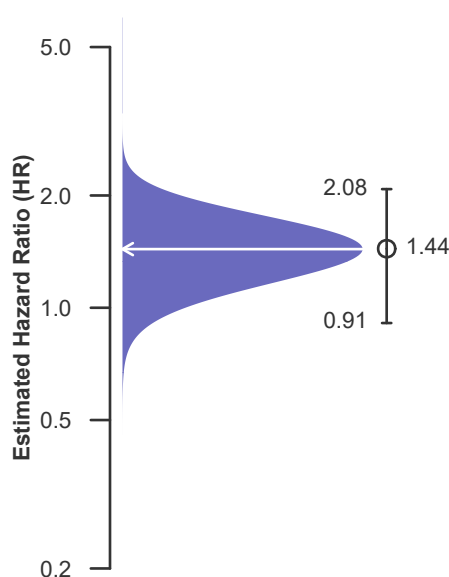
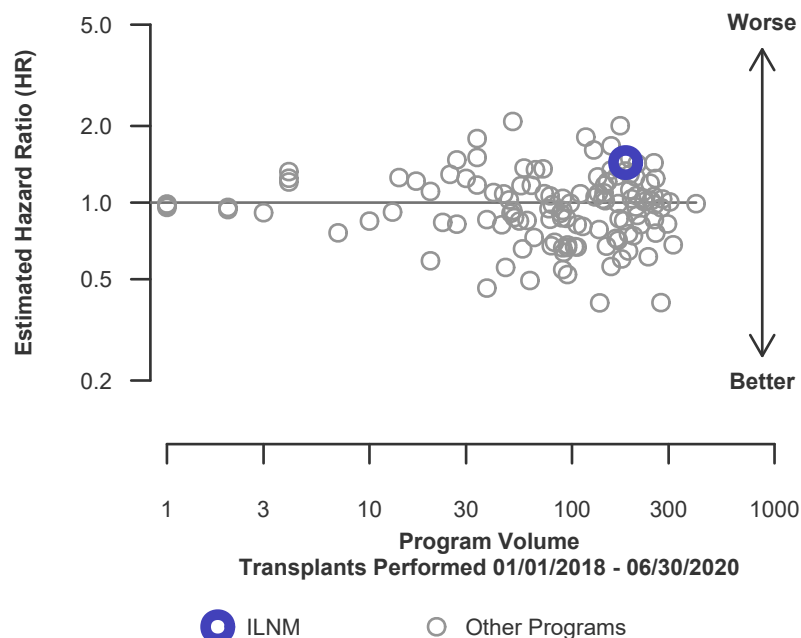


Figure C4D. Adult (18+) 1-year deceased donor graft failure HR program comparison





C. Transplant Information

Table C6L. Adult (18+) 1-year survival with a functioning living donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	16	870
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	92.31%	93.00%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.01%	--
Number of observed graft failures (including deaths) during the first year after transplant	1	51
Number of expected graft failures (including deaths) during the first year after transplant	1.02	--
Estimated hazard ratio*	0.99	--
95% credible interval for the hazard ratio**	[0.20, 2.39]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.20, 2.39], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 80% reduced risk up to 139% increased risk.

Figure C3L. Adult (18+) 1-year living donor graft failure HR estimate

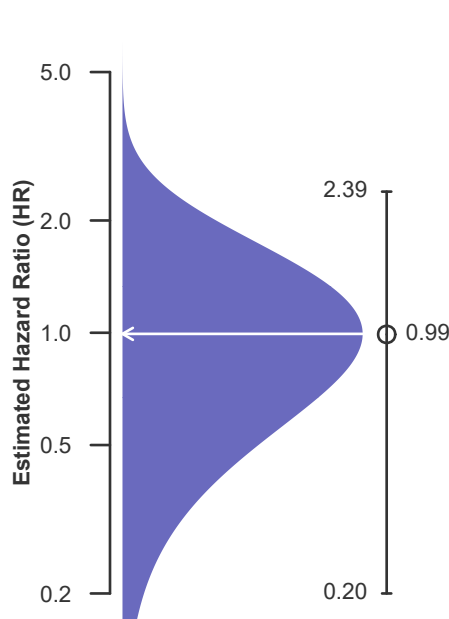
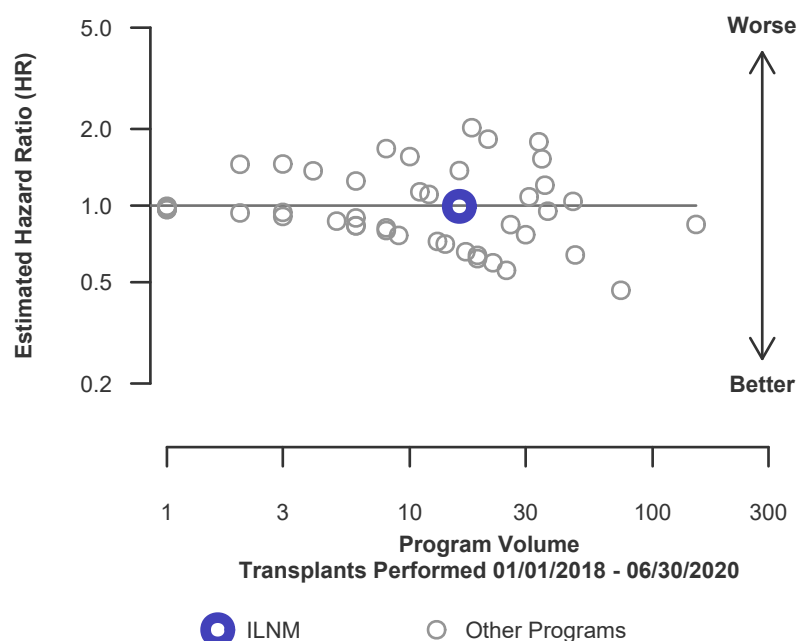


Figure C4L. Adult (18+) 1-year living donor graft failure HR program comparison





C. Transplant Information

Table C7. Adult (18+) 3-year survival with a functioning graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	211	16,132
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	87.51%	85.42%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	85.09%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	26	2,303
Number of expected graft failures (including deaths) during the first 3 years after transplant	31.19	--
Estimated hazard ratio*	0.84	--
95% credible interval for the hazard ratio**	[0.56, 1.18]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.56, 1.18], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 16% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 44% reduced risk up to 18% increased risk.

Figure C5. Adult (18+) 3-year graft failure HR estimate

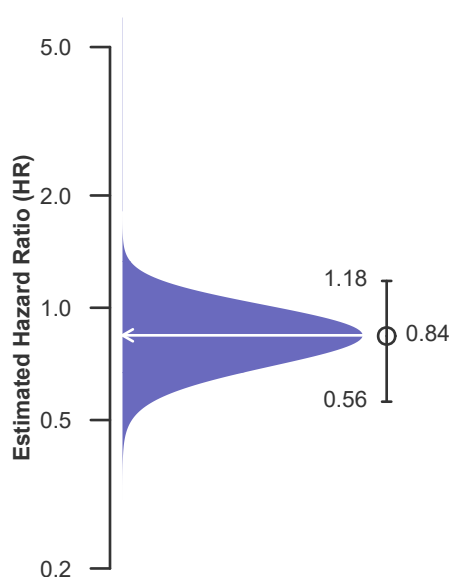
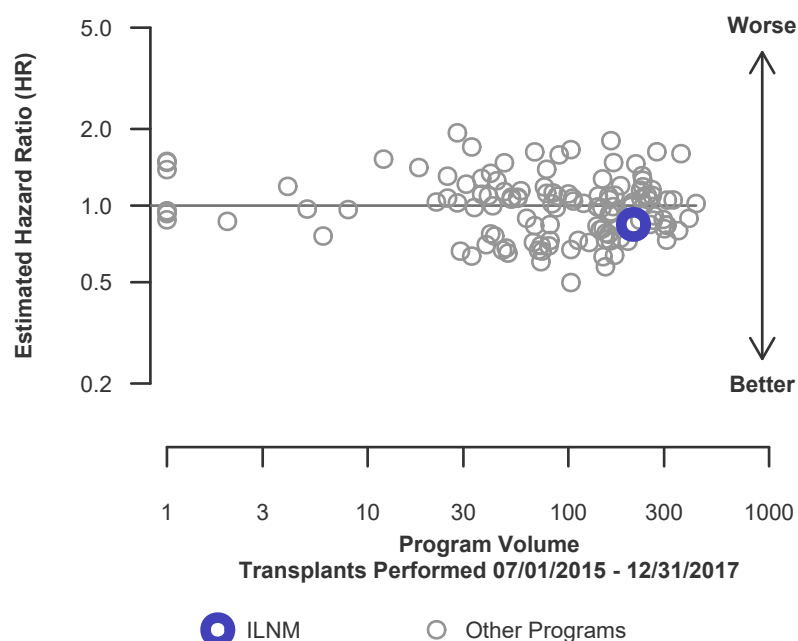


Figure C6. Adult (18+) 3-year graft failure HR program comparison





C. Transplant Information

Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	185	15,412
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	86.96%	85.39%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	84.96%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	24	2,204
Number of expected graft failures (including deaths) during the first 3 years after transplant	27.43	--
Estimated hazard ratio*	0.88	--
95% credible interval for the hazard ratio**	[0.58, 1.25]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.58, 1.25], 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 42% reduced risk up to 25% increased risk.

Figure C5D. Adult (18+) 3-year deceased donor graft failure HR estimate

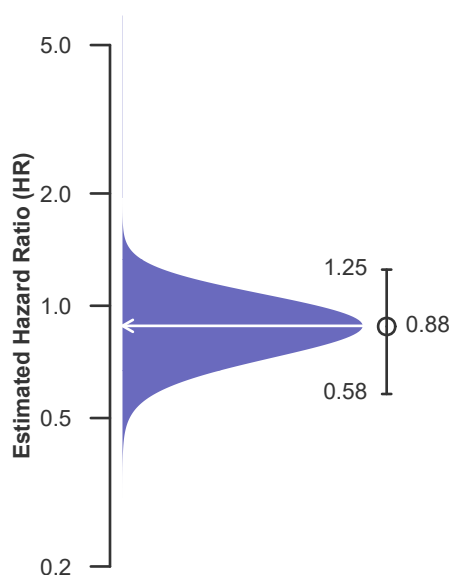
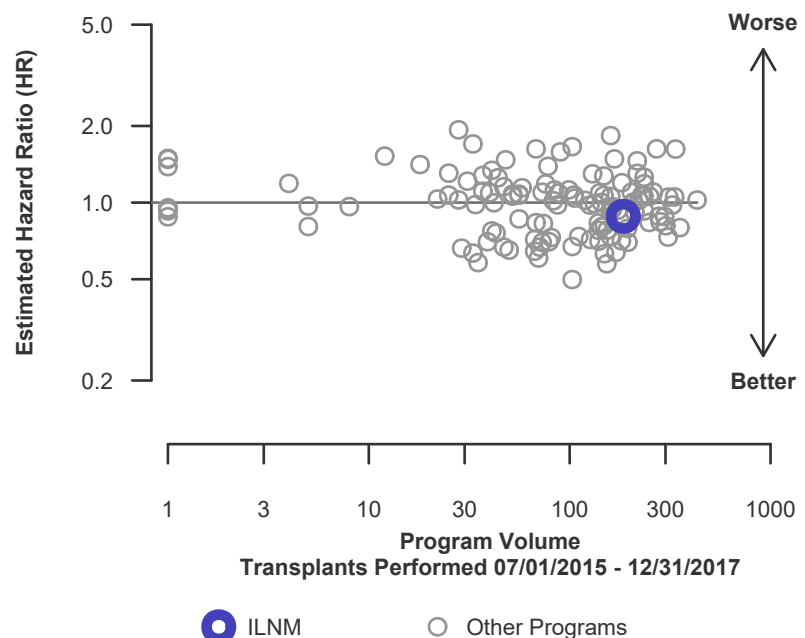


Figure C6D. Adult (18+) 3-year deceased donor graft failure HR program comparison





C. Transplant Information

Table C7L. Adult (18+) 3-year survival with a functioning living donor graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	26	720
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	91.78%	86.04%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.05%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	99
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.76	--
Estimated hazard ratio*	0.69	--
95% credible interval for the hazard ratio**	[0.19, 1.52]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.19, 1.52], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 31% lower risk of graft failure compared to an average program, but ILNM's performance could plausibly range from 81% reduced risk up to 52% increased risk.

Figure C5L. Adult (18+) 3-year living donor graft failure HR estimate

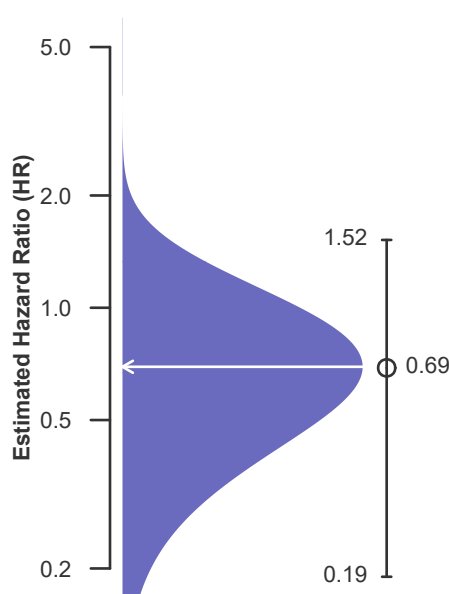
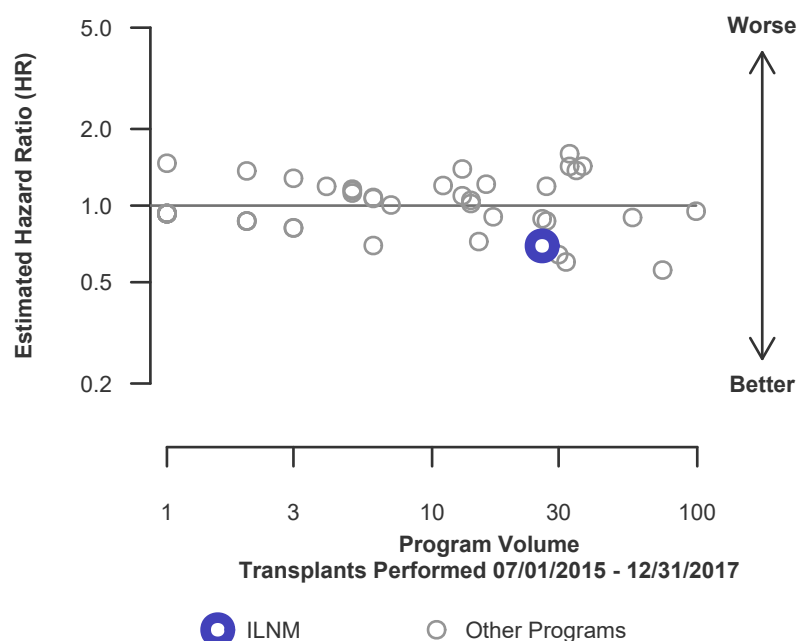


Figure C6L. Adult (18+) 3-year living donor graft failure HR program comparison





C. Transplant Information

Table C8. Pediatric (<18) 1-month survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C7. Pediatric (<18)
1-month graft failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C8. Pediatric (<18) 1-month graft failure HR program
comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C7D. Pediatric (<18)
1-month deceased donor graft
failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C8D. Pediatric (<18) 1-month deceased donor graft
failure HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C8L. Pediatric (<18) 1-month survival with a functioning living donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C7L. Pediatric (<18)
1-month living donor graft failure
HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C8L. Pediatric (<18) 1-month living donor graft failure
HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C9. Pediatric (<18) 1-year survival with a functioning graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C9. Pediatric (<18) 1-year
graft failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C10. Pediatric (<18) 1-year graft failure HR program
comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2018 and 03/12/2020
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C9D. Pediatric (<18)
1-year deceased donor graft
failure HR estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C10D. Pediatric (<18) 1-year deceased donor graft
failure HR program comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C9L. Pediatric (<18) 1-year survival with a functioning living donor graft

Single organ transplants performed between 01/01/2018 and 03/12/2020

Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C9L. Pediatric (<18) 1-year living donor graft failure HR estimate

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C10L. Pediatric (<18) 1-year living donor graft failure HR program comparison

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C10. Pediatric (<18) 3-year survival with a functioning graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	1	1,360
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	89.72%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.11%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	138
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.12	--
Estimated hazard ratio*	0.95	--
95% credible interval for the hazard ratio**	[0.11, 2.63]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.11, 2.63], 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 89% reduced risk up to 163% increased risk.

Figure C11. Pediatric (<18) 3-year graft failure HR estimate

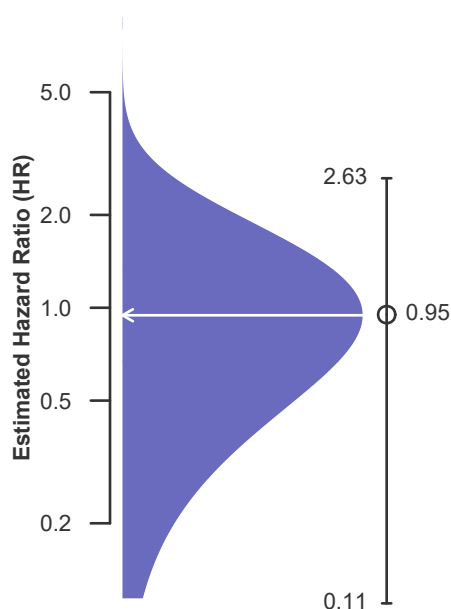
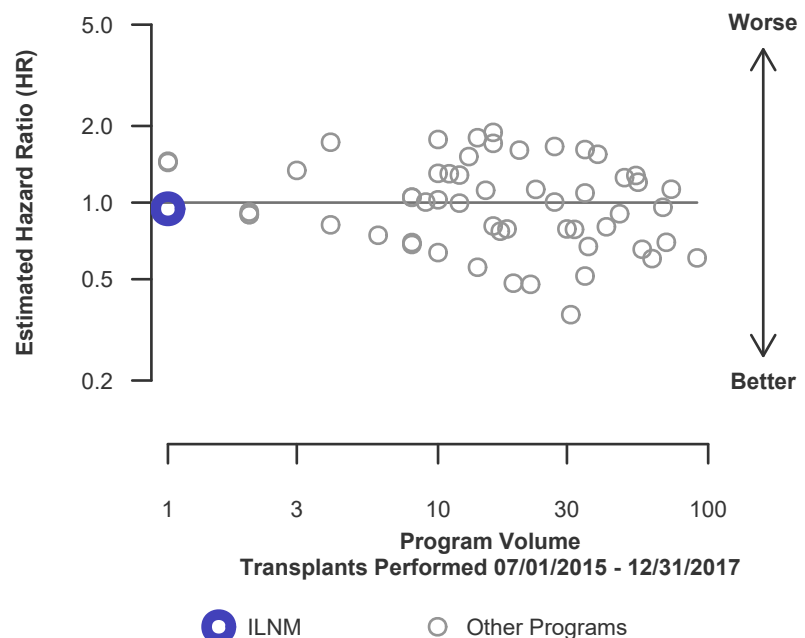


Figure C12. Pediatric (<18) 3-year graft failure HR program comparison





C. Transplant Information

Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

	ILNM	U.S.
Number of transplants evaluated	1	1,182
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	89.10%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.11%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	127
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.12	--
Estimated hazard ratio*	0.95	--
95% credible interval for the hazard ratio**	[0.11, 2.63]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.11, 2.63], 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 89% reduced risk up to 163% increased risk.

Figure C11D. Pediatric (<18) 3-year deceased donor graft failure HR estimate

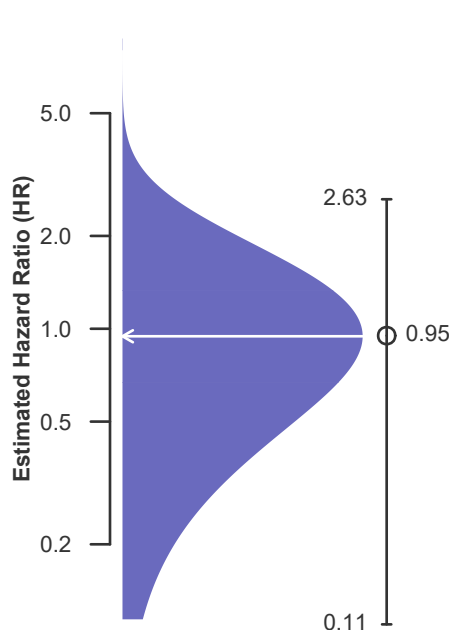
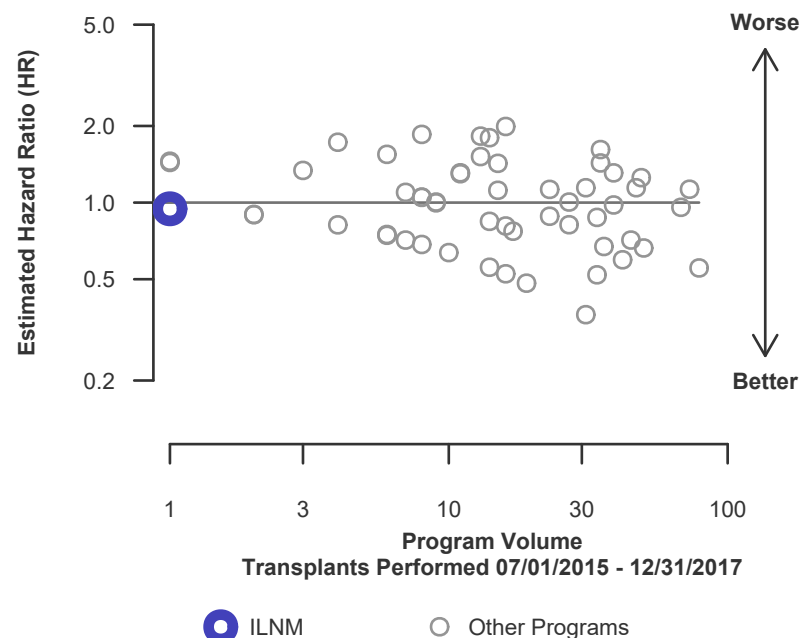


Figure C12D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison





C. Transplant Information

Table C10L. Pediatric (<18) 3-year survival with a functioning living donor graft
Single organ transplants performed between 07/01/2015 and 12/31/2017
Deaths and retransplants are considered graft failures

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

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

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

**Figure C12L. Pediatric (<18) 3-year living donor graft failure
HR program comparison**

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C11. Adult (18+) 1-month patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	192	15,447
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	95.78%	97.97%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.01%	--
Number of observed deaths during the first month after transplant	8	310
Number of expected deaths during the first month after transplant	3.75	--
Estimated hazard ratio*	1.74	--
95% credible interval for the hazard ratio**	[0.83, 2.97]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.83, 2.97], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 74% higher risk of patient death compared to an average program, but ILNM's performance could plausibly range from 17% reduced risk up to 197% increased risk.

Figure C13. Adult (18+) 1-month patient death HR estimate

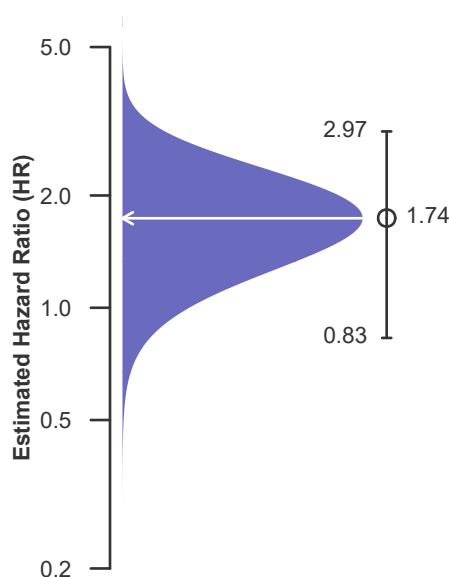
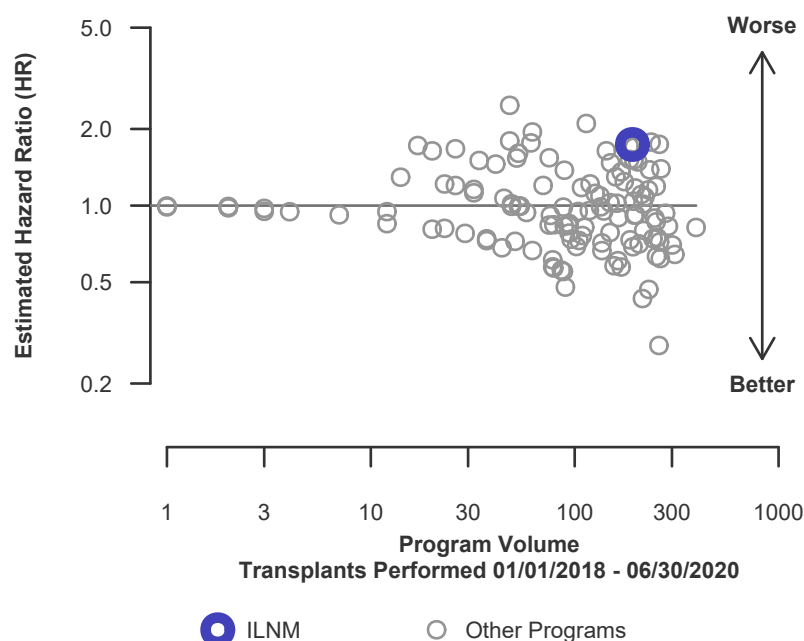


Figure C14. Adult (18+) 1-month patient death HR program comparison





C. Transplant Information

Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	177	14,587
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	95.42%	97.88%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.88%	--
Number of observed deaths during the first month after transplant	8	306
Number of expected deaths during the first month after transplant	3.68	--
Estimated hazard ratio*	1.76	--
95% credible interval for the hazard ratio**	[0.84, 3.01]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.84, 3.01], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 76% higher risk of patient death compared to an average program, but ILNM's performance could plausibly range from 16% reduced risk up to 201% increased risk.

Figure C13D. Adult (18+) 1-month patient death HR estimate (deceased donor grafts)

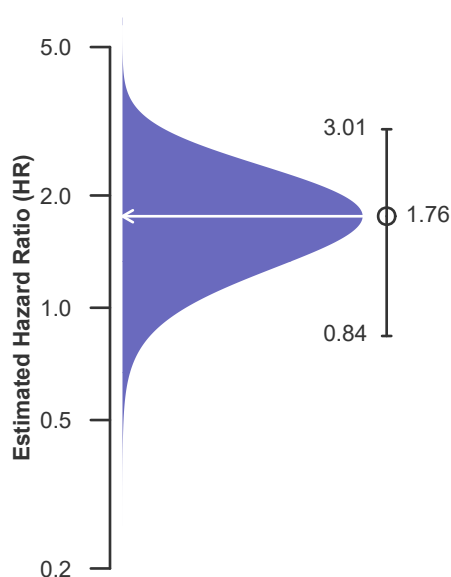
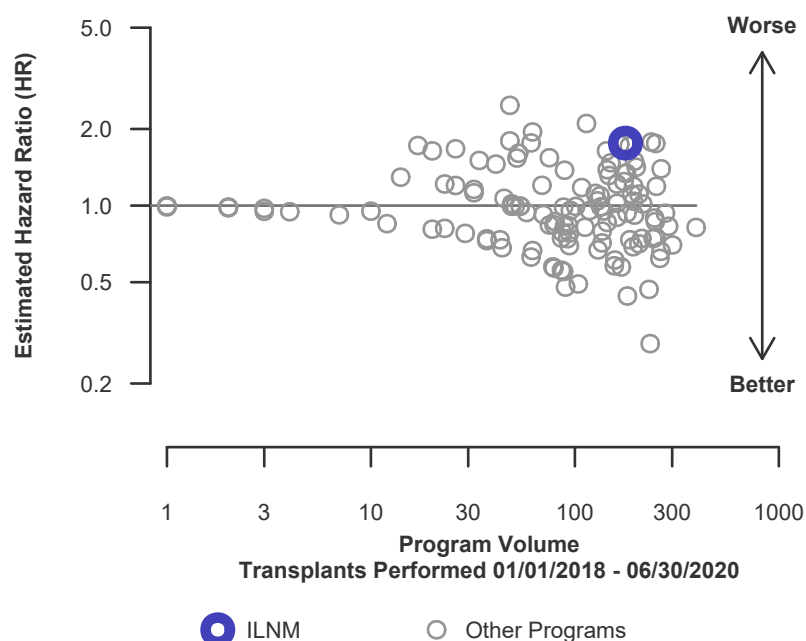


Figure C14D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C11L. Adult (18+) 1-month patient survival (living donor graft recipients)
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	15	860
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.53%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.53%	--
Number of observed deaths during the first month after transplant	0	4
Number of expected deaths during the first month after transplant	0.07	--
Estimated hazard ratio*	0.97	--
95% credible interval for the hazard ratio**	[0.12, 2.69]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.12, 2.69], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 88% reduced risk up to 169% increased risk.

Figure C13L. Adult (18+) 1-month patient death HR estimate (living donor grafts)

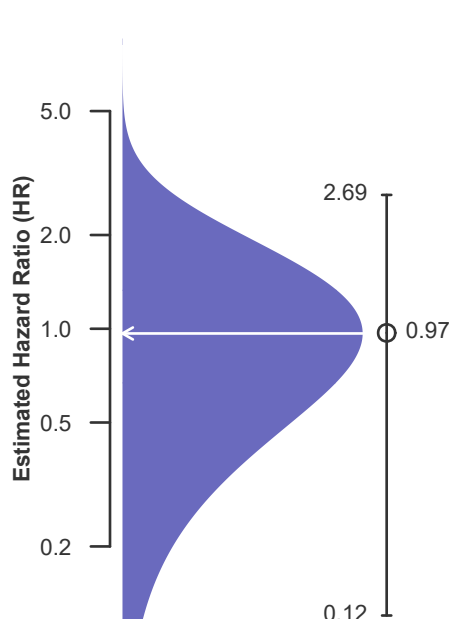
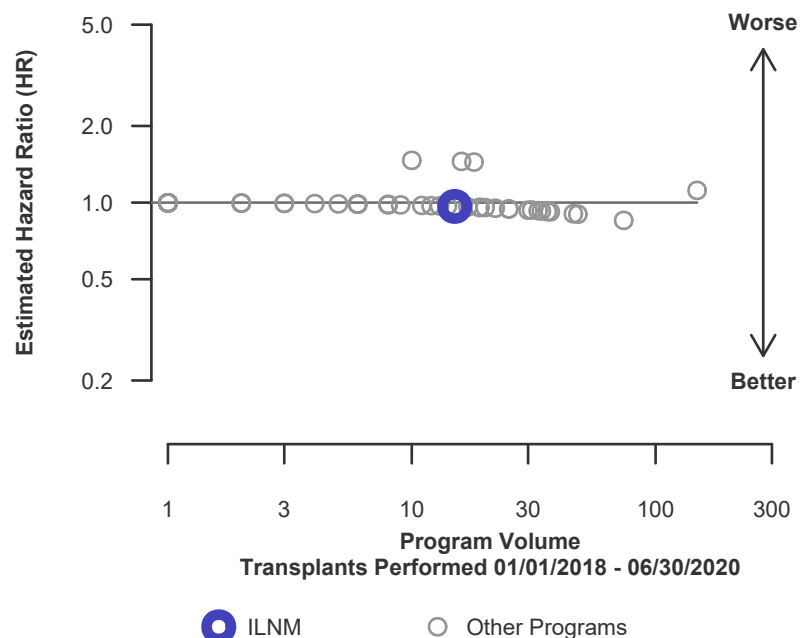


Figure C14L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





C. Transplant Information

Table C12. Adult (18+) 1-year patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	192	15,447
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	89.61%	93.92%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.65%	--
Number of observed deaths during the first year after transplant	17	796
Number of expected deaths during the first year after transplant	10.15	--
Estimated hazard ratio*	1.56	--
95% credible interval for the hazard ratio**	[0.94, 2.34]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.94, 2.34], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 56% higher risk of patient death compared to an average program, but ILNM's performance could plausibly range from 6% reduced risk up to 134% increased risk.

Figure C15. Adult (18+) 1-year patient death HR estimate

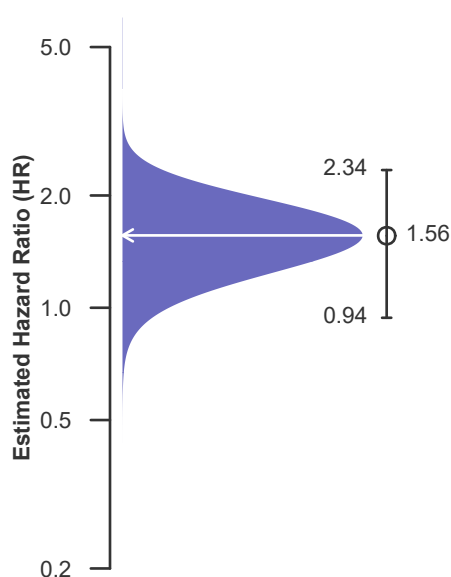
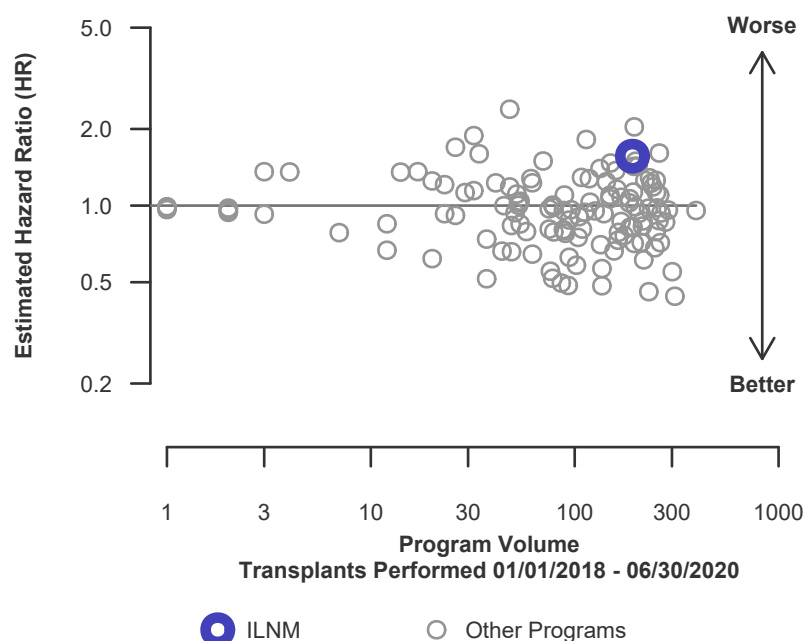


Figure C16. Adult (18+) 1-year patient death HR program comparison





C. Transplant Information

Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	177	14,587
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	89.51%	93.78%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.44%	--
Number of observed deaths during the first year after transplant	16	771
Number of expected deaths during the first year after transplant	9.69	--
Estimated hazard ratio*	1.54	--
95% credible interval for the hazard ratio**	[0.91, 2.33]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.91, 2.33], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 54% higher risk of patient death compared to an average program, but ILNM's performance could plausibly range from 9% reduced risk up to 133% increased risk.

Figure C15D. Adult (18+) 1-year patient death HR estimate (deceased donor grafts)

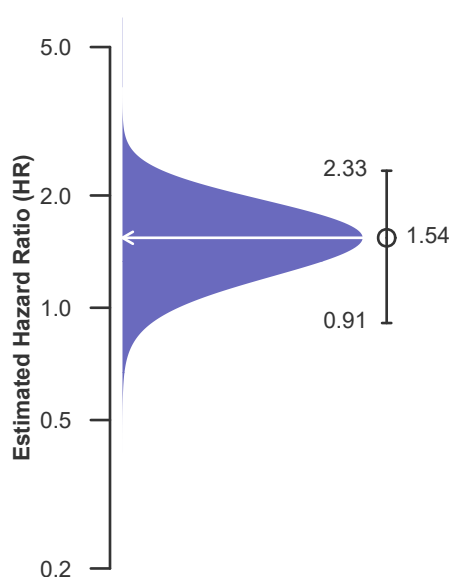
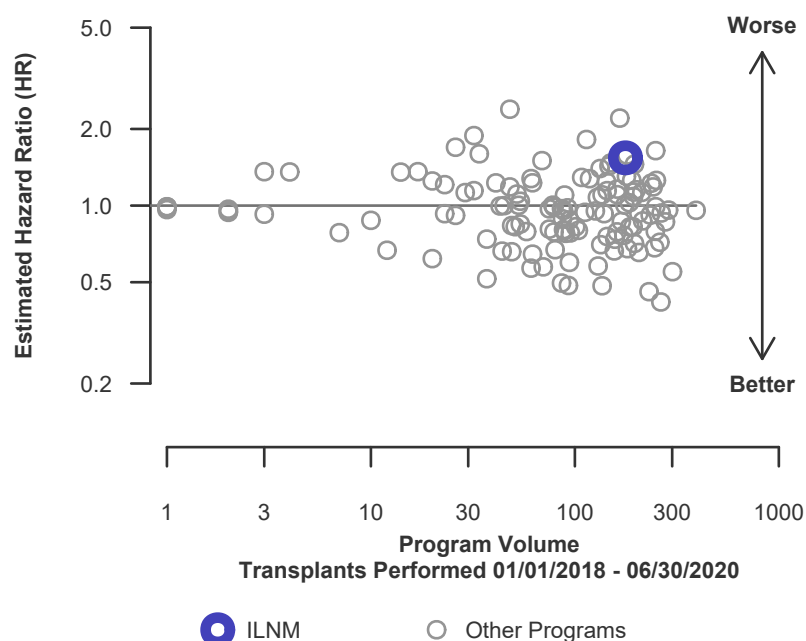


Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C12L. Adult (18+) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	15	860
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	91.67%	96.20%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.20%	--
Number of observed deaths during the first year after transplant	1	25
Number of expected deaths during the first year after transplant	0.47	--
Estimated hazard ratio*	1.22	--
95% credible interval for the hazard ratio**	[0.25, 2.93]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.25, 2.93], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 22% higher risk of patient death compared to an average program, but ILNM's performance could plausibly range from 75% reduced risk up to 193% increased risk.

Figure C15L. Adult (18+) 1-year patient death HR estimate (living donor grafts)

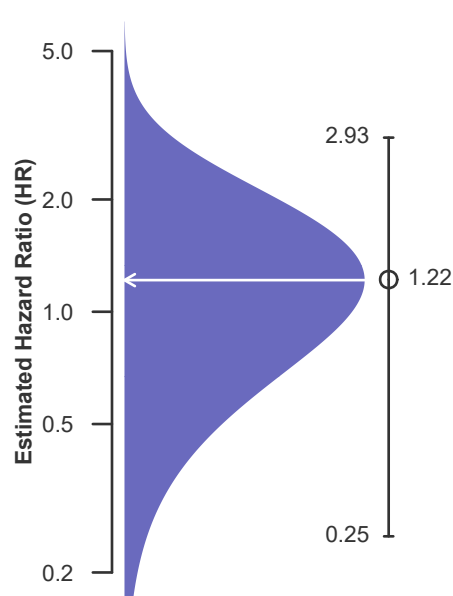
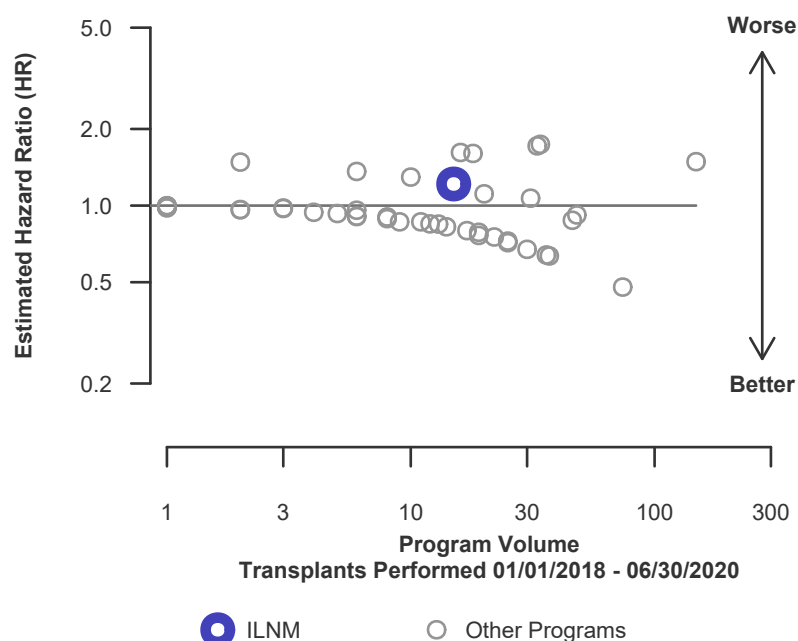


Figure C16L. Adult (18+) 1-year patient death HR program comparison (living donor grafts)





C. Transplant Information

Table C13. Adult (18+) 3-year patient survival

Single organ transplants performed between 07/01/2015 and 12/31/2017
Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	206	15,497
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	89.16%	87.73%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.11%	--
Number of observed deaths during the first 3 years after transplant	22	1,855
Number of expected deaths during the first 3 years after transplant	24.01	--
Estimated hazard ratio*	0.92	--
95% credible interval for the hazard ratio**	[0.59, 1.33]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.59, 1.33], 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 41% reduced risk up to 33% increased risk.

Figure C17. Adult (18+) 3-year patient death HR estimate

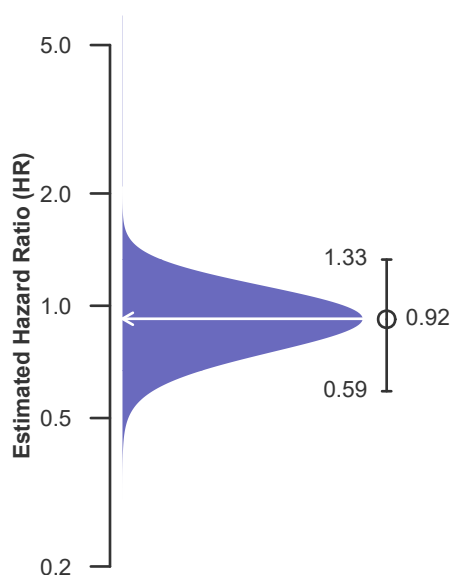
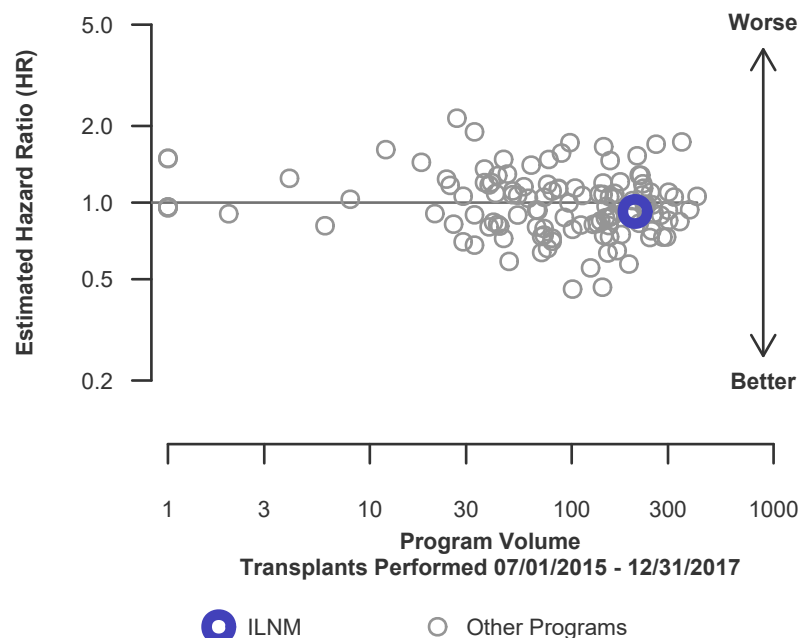


Figure C18. Adult (18+) 3-year patient death HR program comparison





C. Transplant Information

Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	180	14,781
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	88.83%	87.59%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	87.75%	--
Number of observed deaths during the first 3 years after transplant	20	1,789
Number of expected deaths during the first 3 years after transplant	21.56	--
Estimated hazard ratio*	0.93	--
95% credible interval for the hazard ratio**	[0.59, 1.36]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.59, 1.36], 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 41% reduced risk up to 36% increased risk.

Figure C17D. Adult (18+) 3-year patient death HR estimate (deceased donor grafts)

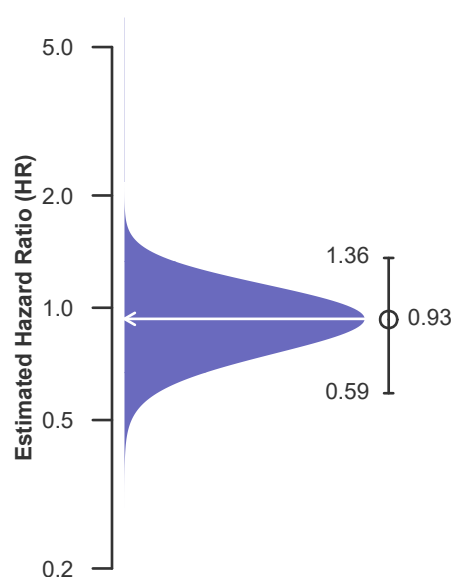
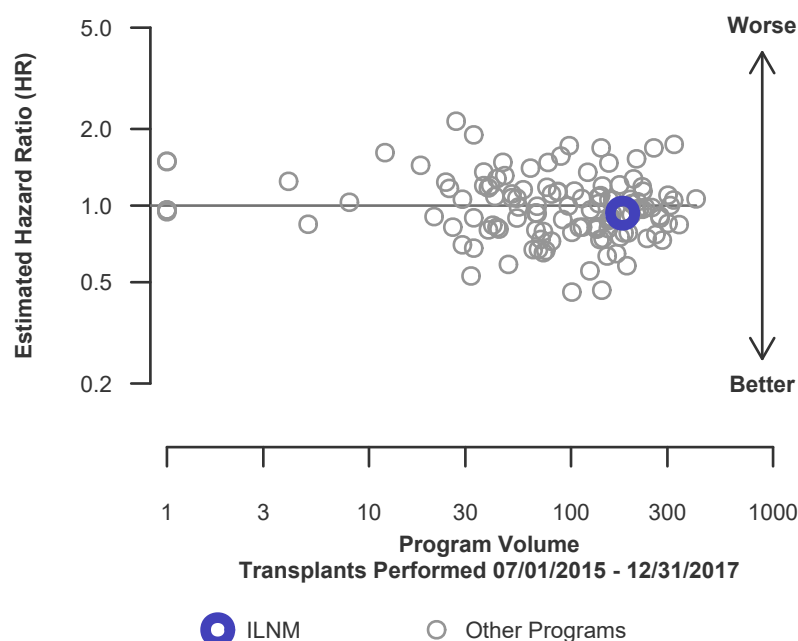


Figure C18D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C13L. Adult (18+) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	26	716
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	91.78%	90.62%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	90.63%	--
Number of observed deaths during the first 3 years after transplant	2	66
Number of expected deaths during the first 3 years after transplant	2.44	--
Estimated hazard ratio*	0.90	--
95% credible interval for the hazard ratio**	[0.25, 1.97]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.25, 1.97], 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 75% reduced risk up to 97% increased risk.

Figure C17L. Adult (18+) 3-year patient death HR estimate (living donor grafts)

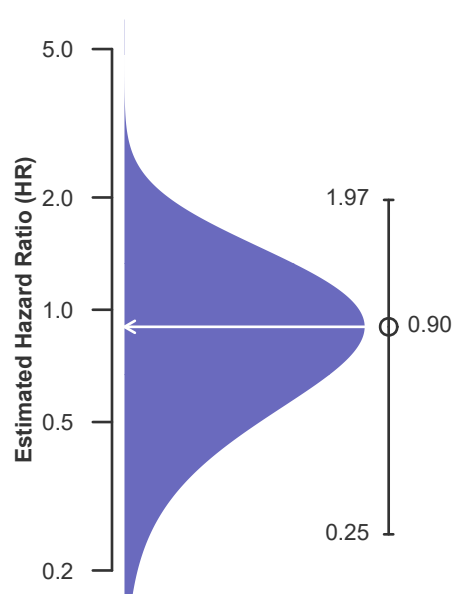
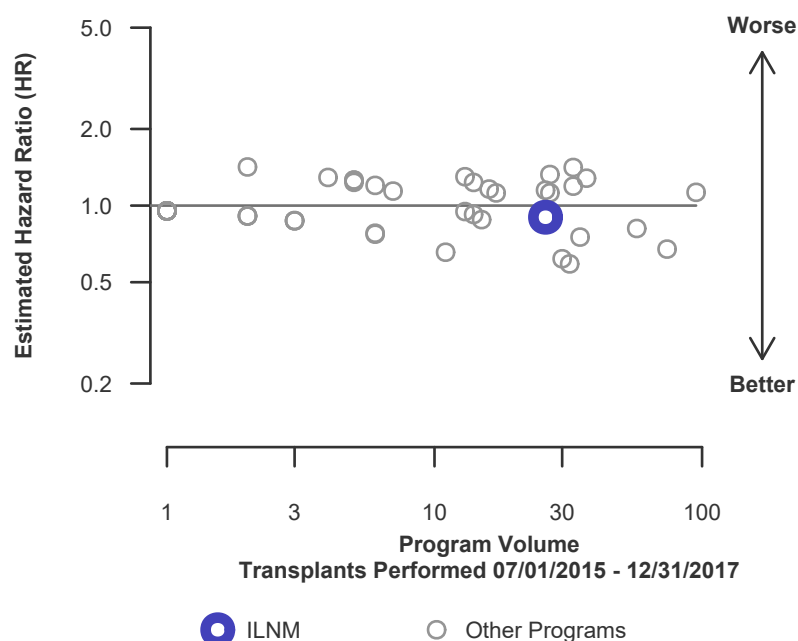


Figure C18L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





C. Transplant Information

Table C14. Pediatric (<18) 1-month patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C19. Pediatric (<18)
1-month patient death HR
estimate**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C20. Pediatric (<18) 1-month patient death HR program
comparison**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C19D. Pediatric (<18)
1-month patient death HR
estimate (deceased donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C20D. Pediatric (<18) 1-month patient death HR
program comparison (deceased donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C14L. Pediatric (<18) 1-month patient survival (living donor graft recipients)
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

**Figure C19L. Pediatric (<18)
1-month patient death HR
estimate (living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

**Figure C20L. Pediatric (<18) 1-month patient death HR
program comparison (living donor grafts)**

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C15. Pediatric (<18) 1-year patient survival

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C21. Pediatric (<18) 1-year patient death HR estimate

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C22. Pediatric (<18) 1-year patient death HR program comparison

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C21D. Pediatric (<18) 1-year patient death HR estimate (deceased donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C22D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C15L. Pediatric (<18) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2018 and 03/12/2020

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
01/01/2018-03/12/2020

Figure C21L. Pediatric (<18) 1-year patient death HR estimate (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020

Figure C22L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
01/01/2018-06/30/2020



C. Transplant Information

Table C16. Pediatric (<18) 3-year patient survival

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	1	1,269
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	92.78%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.16%	--
Number of observed deaths during the first 3 years after transplant	0	90
Number of expected deaths during the first 3 years after transplant	0.08	--
Estimated hazard ratio*	0.96	--
95% credible interval for the hazard ratio**	[0.12, 2.68]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.12, 2.68], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 88% reduced risk up to 168% increased risk.

Figure C23. Pediatric (<18) 3-year patient death HR estimate

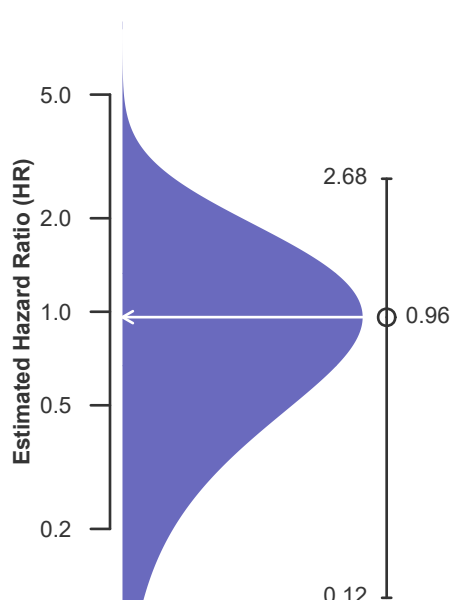
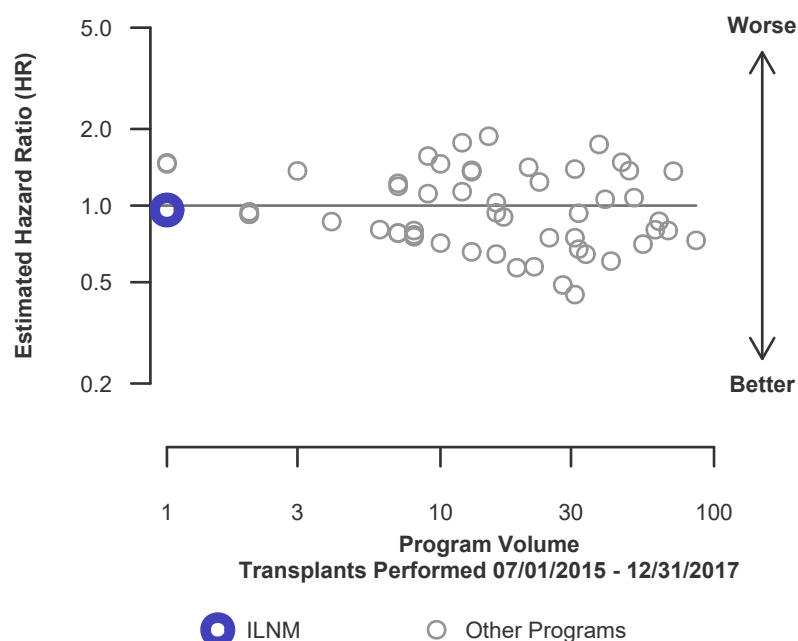


Figure C24. Pediatric (<18) 3-year patient death HR program comparison





C. Transplant Information

Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

	ILNM	U.S.
Number of transplants evaluated	1	1,092
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	92.16%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.16%	--
Number of observed deaths during the first 3 years after transplant	0	84
Number of expected deaths during the first 3 years after transplant	0.08	--
Estimated hazard ratio*	0.96	--
95% credible interval for the hazard ratio**	[0.12, 2.68]	--

* The hazard ratio provides an estimate of how Northwestern Memorial Hospital (ILNM)'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, [0.12, 2.68], indicates the location of ILNM's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but ILNM's performance could plausibly range from 88% reduced risk up to 168% increased risk.

Figure C23D. Pediatric (<18) 3-year patient death HR estimate (deceased donor grafts)

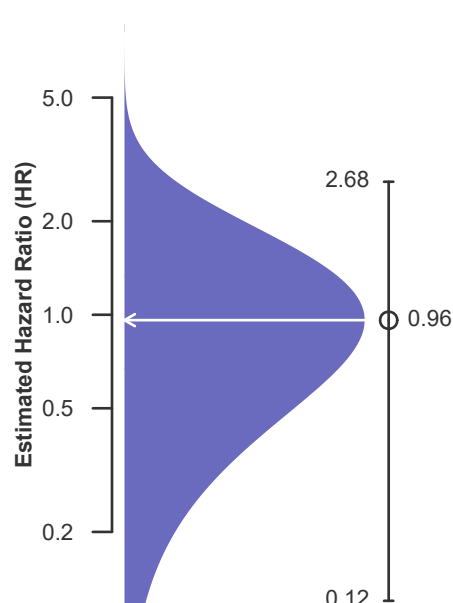
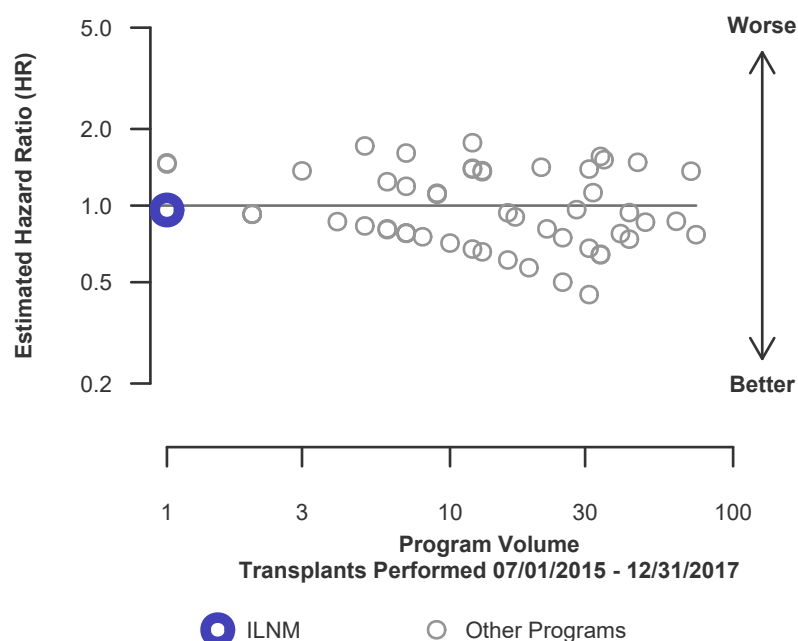


Figure C24D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)





C. Transplant Information

Table C16L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2015 and 12/31/2017

Retransplants excluded

This center did not perform any
transplants relevant to
this table during
07/01/2015-12/31/2017

Figure C23L. Pediatric (<18) 3-year patient death HR estimate (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017

Figure C24L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)

This center did not perform any
transplants relevant to
this figure during
07/01/2015-12/31/2017



C. Transplant Information

Table C17. Multi-organ transplant graft survival: 01/01/2018 - 06/30/2020

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Liver Graft Failures		Estimated Liver Graft Survival	
	ILNM-TX1	USA	ILNM-TX1	USA	ILNM-TX1	USA
Kidney-Liver	23	1,732	4	186	82.6%	89.3%
Liver-Heart	2	103	0	15	100.0%	85.4%
Liver-Lung	1	33	1	4	0.0%	87.9%

Pediatric (<18) Transplants

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

Table C18. Multi-organ transplant patient survival: 01/01/2018 - 06/30/2020

Adult (18+) Transplants

Transplant Type	First-Year Outcomes					
	Transplants Performed		Patient Deaths		Estimated Patient Survival	
	ILNM-TX1	USA	ILNM-TX1	USA	ILNM-TX1	USA
Kidney-Liver	23	1,732	4	172	82.6%	90.1%
Liver-Heart	2	103	0	15	100.0%	85.4%
Liver-Lung	1	33	1	4	0.0%	87.9%

Pediatric (<18) Transplants

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



D. Living Donor Information

Table D1. Living donor summary: 01/01/2018 - 12/31/2020

Living Donor Follow-Up	This Center			United States		
	01/2018- 12/2018	01/2019- 12/2019	01/2020- 06/2020	01/2018- 12/2018	01/2019- 12/2019	01/2020- 06/2020
Number of Living Donors	8	8	5	392	516	221
6-Month Follow-Up						
Donors due for follow-up	8	8	5	392	516	217
Timely clinical data	8 100.0%	6 75.0%	3 60.0%	347 88.5%	434 84.1%	181 83.4%
Timely lab data	7 87.5%	6 75.0%	3 60.0%	344 87.8%	425 82.4%	179 82.5%
12-Month Follow-Up						
Donors due for follow-up	8	8		392	516	
Timely clinical data	7 87.5%	7 87.5%		324 82.7%	403 78.1%	
Timely lab data	6 75.0%	7 87.5%		316 80.6%	381 73.8%	
24-Month Follow-Up						
Donors due for follow-up	8			392		
Timely clinical data	4 50.0%			255 65.1%		
Timely lab data	3 37.5%			220 56.1%		

Follow-up completion standards through 2 years post-donation were implemented in policy on February 1, 2013.