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## User Guide

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Due to the pandemic's effect on the transplant system, adjustments have been made for this data reporting cycle and potentially future reporting cycles as well. For transplant programs, this means that SRTR will not include patient follow-up starting from March 12, 2020, the day prior to the emergency declaration, i.e., waitlist survival, transplant rate, and outcomes will not be assessed after that date.

This report contains a wide range of useful information about the kidney transplant program at Hennepin County Medical Center (MNHC). The report has three main sections:

- A. Program Summary
- B. Waiting List Information
- C. Transplant Information

The Program Summary is a one-page summary highlighting characteristics of the program, including the number of candidates on the waiting list, the number of transplants performed at the program, the number of patients being cared for by the program, and patient outcomes, including outcomes while on the waiting list (the transplant rate and the death rate while on the waiting list) and outcomes after transplant (patient and graft survival probabilities). If the program performed transplants in both adults and children, survival probabilities for adults and children (pediatrics) are provided separately. For each of the outcomes measures presented, a comparison is provided showing what would be expected at this program if it were performing as similar programs around the country perform when treating similar patients. More details regarding these outcome measures are provided in Sections B and C of the report.

The Waiting List Information section contains more detailed information on how many candidates are on the waiting list at the program, the types of candidates on the waiting list, how long candidates typically have to wait for a transplant at this program, how frequently candidates successfully receive a transplant, and how often candidates on the waiting list die before receiving a transplant.

Table B1 shows the activity on this program's waiting list during two recent 1-year periods and provides comparisons to all programs within this program's OPTN region (see <http://optn.transplant.hrsa.gov/members/regions.asp> for information on OPTN regions) and the nation as a whole. Tables B2 and B3 describe the candidates on the waiting list at this program, with comparisons to candidates waiting in the same donor service area (OPO/DSA) the OPTN region, and the nation as a whole.

Table B4 shows how many candidates were removed from the waiting list because they received a transplant. The program's transplant rate is calculated as the number of candidates who received a transplant divided by the person-years observed at the program (person-years is a combination of how many candidates were on the waiting list along with how long each candidate was followed since some candidates are not on the waiting list for the entire year). The transplant rate and comparisons to what would be expected at this program are presented in Figures B1 and B2. Figure B1 shows the transplant rate compared to what was expected at this program. The expected transplant rate is an estimate of what we would expect at this program if it were performing transplants at rates similar to other programs in the US with similar candidates on their waiting lists. The expected rate is only an estimate, and is made with a certain level of uncertainty. This uncertainty is shown in Figure B2. Figure B2 displays the ratio of the observed to the expected transplant rate. A ratio of 1 indicates that the



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## User Guide

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observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 17.9 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at <http://www.srtr.org> for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2014 and 12/31/2019. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 1.7 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2020 to calculate a particular percentile of transplant times.



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## User Guide

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Table B11 contains a summary of the offer acceptance practices of the program. The offer acceptance ratio indicates whether the program is more or less likely to accept offers than the average program. If the offer acceptance ratio is greater than 1.0, then the program tends to accept more offers than average; if the offer acceptance ratio is less than 1.0, then the program tends to accept fewer offers than average. Figure B10 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B11 - B14 similarly show offer acceptance rates for subsets of offers.

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

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

While Tables C5-C10 present data on graft survival, Tables C11-C16 present information on patient survival. For these tables, patients are followed from the time of transplant until death, regardless of whether the transplant is functioning or the patient required another transplant to survive.

Tables C17 and C18 summarize the multiorgan transplant outcomes at this program. The summary statistics in these tables are descriptive and are not risk-adjusted for different donor and candidate characteristics.

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

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



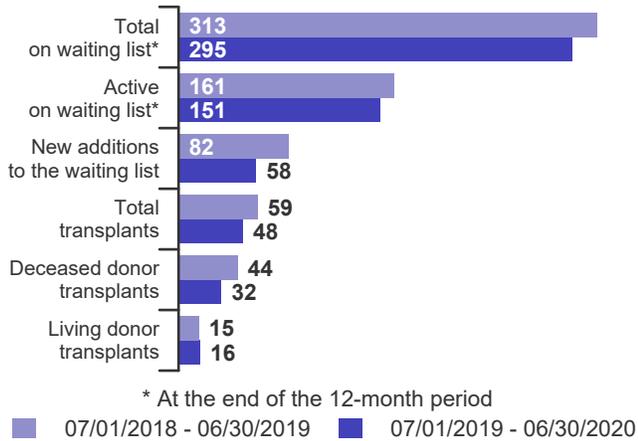
## Table of Contents

Section	Page
User Guide	i
<b>A. Program Summary</b>	
Program Summary	1
<b>B. Waiting List Information</b>	
Waiting list activity	2
Demographic characteristics of waiting list candidates	3
Medical characteristics of waiting list candidates	4
Transplant rates	5
Deceased donor transplant rates	6
Waiting list mortality rates	7
Patient survival from listing	8
Waiting list candidate status after listing	9
Percent of candidates with deceased donor transplants: demographic characteristics	10
Percent of candidates with deceased donor transplants: medical characteristics	11
Time to transplant for waiting list candidates	12
Offer acceptance practices	13
<b>C. Transplant Information</b>	
Deceased donor transplant recipient demographic characteristics	15
Living donor transplant recipient demographic characteristics	16
Deceased donor transplant recipient medical characteristics	17
Living donor transplant recipient medical characteristics	18
Deceased donor characteristics	19
Living donor characteristics	20
Deceased donor transplant characteristics	21
Living donor transplant characteristics	22
Graft survival	23
Patient survival	41
Multi-organ transplant graft survival	59
Multi-organ transplant patient survival	59
<b>D. Living Donor Information</b>	
Living donor follow-up summary	60



## A. Program Summary

**Figure A1. Waiting list and transplant activity**

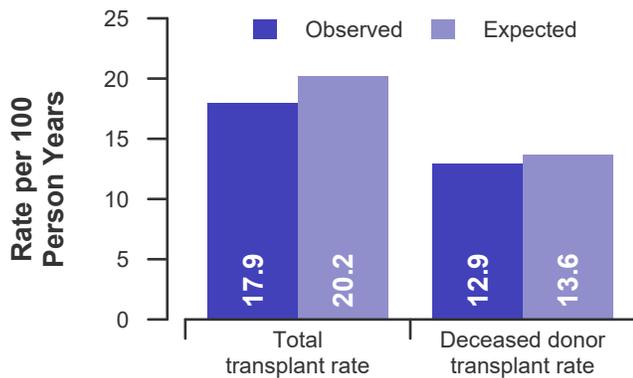


**Table A1. Census of transplant recipients**

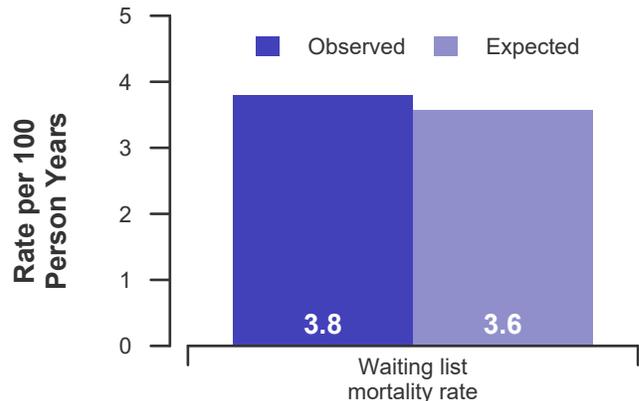
Recipients	07/01/2018-06/30/2019	07/01/2019-06/30/2020
Transplanted at this center	59	48
Followed by this center*	721	493
...transplanted at this program	719	491
...transplanted elsewhere	2	2

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

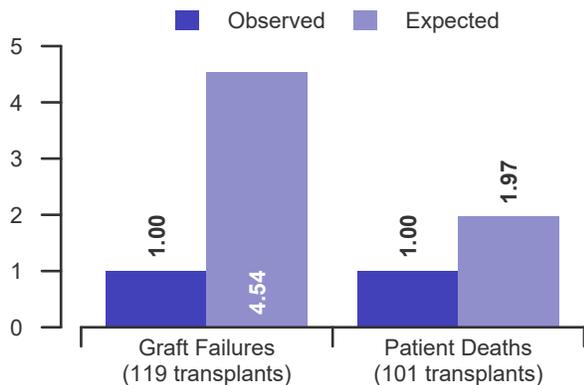
**Figure A2. Transplant rates  
07/01/2018 - 03/12/2020**



**Figure A3. Waiting list mortality rates  
07/01/2018 - 03/12/2020**



**Figure A4. First-year adult graft and patient survival: 07/01/2017 - 12/31/2019**



**Figure A5. First-year pediatric graft and patient survival: 07/01/2017 - 12/31/2019**

This center did not perform any transplants relevant to this figure during 07/01/2017-12/31/2019



## B. Waiting List Information

**Table B1. Waiting list activity summary: 07/01/2018 - 06/30/2020**

Waiting List Registrations	Counts for this center		Activity for 07/01/2019 to 06/30/2020 as percent of registrants on waiting list on 07/01/2019		
	07/01/2018-06/30/2019	07/01/2019-06/30/2020	This Center (%)	OPTN Region (%)	U.S. (%)
<b>On waiting list at start</b>	321	313	100.0	100.0	100.0
<b>Additions</b>					
New listings at this center	82	58	18.5	41.2	39.3
<b>Removals</b>					
Transferred to another center	3	7	2.2	0.8	1.7
Received living donor transplant*	15	16	5.1	9.3	5.7
Received deceased donor transplant*	44	32	10.2	15.1	16.6
Died	12	8	2.6	3.5	4.1
Transplanted at another center	1	2	0.6	4.1	3.8
Deteriorated	5	5	1.6	4.7	4.0
Recovered	0	1	0.3	0.4	0.2
Other reasons	10	5	1.6	5.7	5.0
<b>On waiting list at end of period</b>	313	295	94.2	97.5	98.2

\* 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 07/01/2019 and 06/30/2020

Demographic Characteristic	New Waiting List Registrations 07/01/2019 to 06/30/2020 (%)			All Waiting List Registrations on 06/30/2020 (%)		
	This Center	OPTN Region	U.S.	This Center	OPTN Region	U.S.
	(N=58)	(N=3,033)	(N=39,776)	(N=295)	(N=7,173)	(N=99,301)
<b>All (%)</b>	100.0	100.0	100.0	100.0	100.0	100.0
<b>Ethnicity/Race (%)*</b>						
White	37.9	52.6	41.7	39.0	47.8	35.2
African-American	34.5	22.9	28.5	27.1	27.4	32.1
Hispanic/Latino	12.1	13.9	19.7	11.9	13.0	21.0
Asian	13.8	7.8	8.1	15.9	8.7	9.9
Other	1.7	2.8	1.9	6.1	3.1	1.8
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
<b>Age (%)</b>						
<2 years	0.0	0.2	0.1	0.0	0.1	0.1
2-11 years	0.0	0.6	0.9	0.0	0.5	0.6
12-17 years	0.0	1.6	1.5	0.0	1.2	1.0
18-34 years	10.3	10.9	10.7	15.6	10.7	10.3
35-49 years	29.3	24.5	24.2	36.9	27.4	26.9
50-64 years	50.0	41.4	41.3	38.0	43.7	43.4
65-69 years	10.3	14.2	13.3	8.5	12.3	12.1
70+ years	0.0	6.5	8.1	1.0	4.0	5.6
<b>Gender (%)</b>						
Male	63.8	60.7	62.1	58.0	60.9	62.1
Female	36.2	39.3	37.9	42.0	39.1	37.9

\* 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%.



## B. Waiting List Information

**Table B3. Medical characteristics of waiting list candidates**

Candidates registered on the waiting list between 07/01/2019 and 06/30/2020

Medical Characteristic	New Waiting List Registrations 07/01/2019 to 06/30/2020 (%)			All Waiting List Registrations on 06/30/2020 (%)		
	This Center	OPTN Region	U.S.	This Center	OPTN Region	U.S.
	(N=58)	(N=3,033)	(N=39,776)	(N=295)	(N=7,173)	(N=99,301)
<b>All (%)</b>	100.0	100.0	100.0	100.0	100.0	100.0
<b>Blood Type (%)</b>						
O	48.3	46.7	49.1	56.6	53.9	53.8
A	29.3	35.3	32.4	21.7	28.0	27.2
B	17.2	14.2	14.8	19.7	15.9	16.5
AB	5.2	3.8	3.8	2.0	2.2	2.5
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
<b>Previous Transplant (%)</b>						
Yes	12.1	15.8	12.7	10.2	18.6	13.7
No	87.9	84.2	87.3	89.8	81.4	86.3
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
<b>Initial CPRA (%)</b>						
0-9%	72.4	82.1	80.5	71.5	80.0	80.0
10-79%	15.5	11.7	12.4	22.0	13.1	12.6
80+%	12.1	6.2	6.9	6.4	6.9	7.3
Unknown	0.0	0.0	0.2	0.0	0.0	0.1
<b>Primary Disease (%)*</b>						
Glomerular Diseases	22.4	21.1	18.8	24.4	21.3	18.8
Tubular and Interstitial Diseases	1.7	4.6	3.8	4.7	4.9	3.6
Polycystic Kidneys	6.9	8.2	7.5	8.1	7.9	6.9
Congenital, Familial, Metabolic	0.0	2.2	2.1	1.0	2.2	1.8
Diabetes	25.9	27.4	35.4	26.8	28.9	36.9
Renovascular & Vascular Diseases	0.0	0.1	0.2	0.0	0.2	0.2
Neoplasms	0.0	0.4	0.3	0.3	0.3	0.3
Hypertensive Nephrosclerosis	17.2	21.5	19.8	14.6	21.5	21.2
Other	25.9	14.2	11.7	19.3	12.1	9.9
Missing*	0.0	0.3	0.4	0.7	0.6	0.4

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



## B. Waiting List Information

Table B4. Transplant rates: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
<b>All Candidates</b>				
Count on waiting list at start*	321	2,457	7,668	100,697
Person Years**	535.3	4,228.1	12,681.3	171,846.3
Removals for Transplant	96	988	3,204	38,985
<b>Adult (18+) Candidates</b>				
Count on waiting list at start*	321	2,418	7,540	99,206
Person Years**	535.3	4,165.8	12,458.7	169,185.1
Removals for transplant	96	943	3,088	37,536
<b>Pediatric (&lt;18) Candidates</b>				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Removals for transplant	--	--	--	--

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

\*\* Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, removal from the waiting list or March 12, 2020.

Figure B1. Observed and expected transplant rates: 07/01/2018 - 03/12/2020

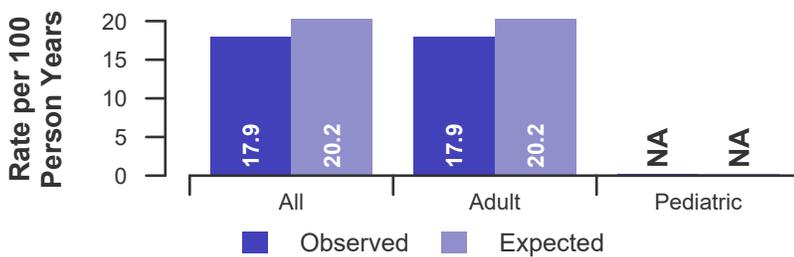


Figure B2. Transplant rate ratio estimate

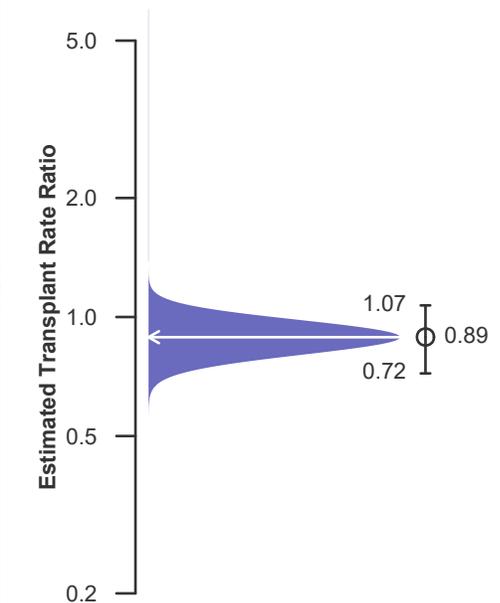
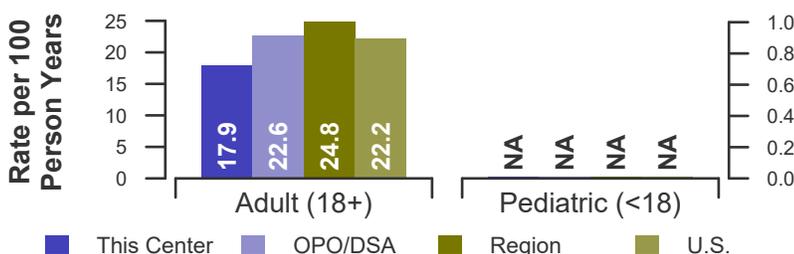


Figure B3. Observed adult (18+) and pediatric (<18) transplant rates: 07/01/2018 - 03/12/2020





## B. Waiting List Information

Table B4D. Deceased donor transplant rates: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
<b>All Candidates</b>				
Count on waiting list at start*	321	2,457	7,668	100,697
Person Years**	535.3	4,228.1	12,681.3	171,846.3
Removals for Transplant	69	465	1,903	27,603
<b>Adult (18+) Candidates</b>				
Count on waiting list at start*	321	2,418	7,540	99,206
Person Years**	535.3	4,165.8	12,458.7	169,185.1
Removals for transplant	69	446	1,843	26,609
<b>Pediatric (&lt;18) Candidates</b>				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Removals for transplant	--	--	--	--

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

\*\* Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, removal from the waiting list or March 12, 2020.

Figure B1D. Observed and expected deceased donor transplant rates: 07/01/2018 - 03/12/2020

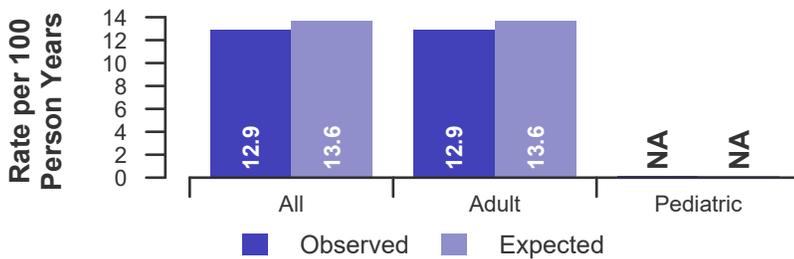


Figure B2D. Deceased donor transplant rate ratio estimate

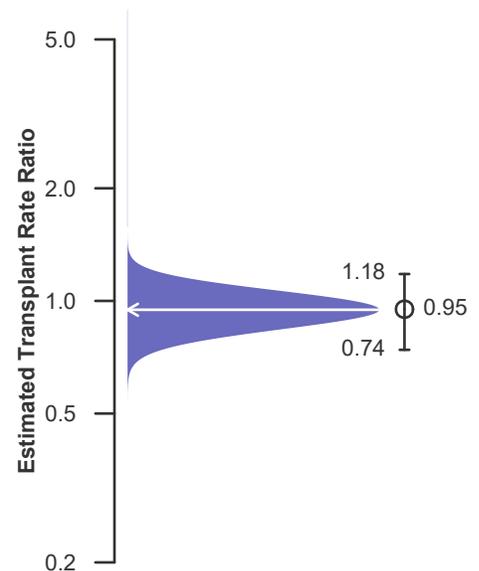
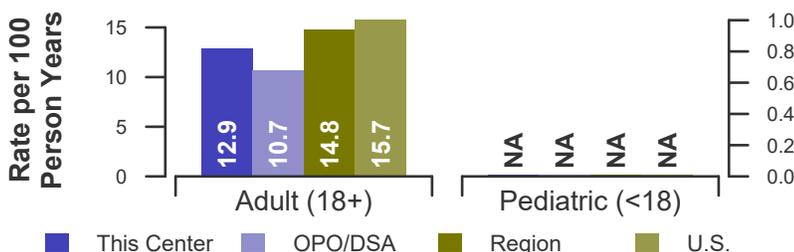


Figure B3D. Observed adult (18+) and pediatric (<18) deceased donor transplant rates: 07/01/2018 - 03/12/2020





## B. Waiting List Information

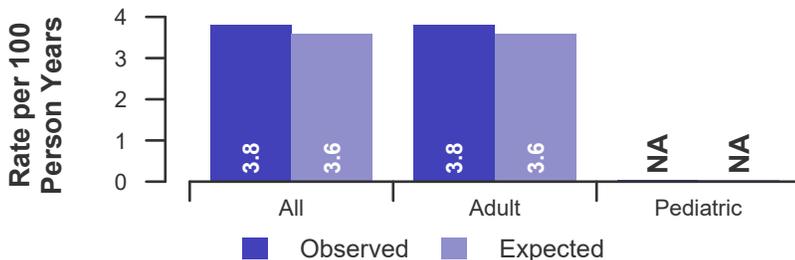
**Table B5. Waiting list mortality rates: 07/01/2018 - 03/12/2020**

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
<b>All Candidates</b>				
Count on waiting list at start*	321	2,457	7,668	100,697
Person Years**	553.6	4,466.6	13,655.5	184,662.2
Number of deaths	21	204	626	8,721
<b>Adult (18+) Candidates</b>				
Count on waiting list at start*	321	2,418	7,540	99,206
Person Years**	553.6	4,403.4	13,430.5	181,914.0
Number of deaths	21	204	625	8,686
<b>Pediatric (&lt;18) Candidates</b>				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Number of deaths	--	--	--	--

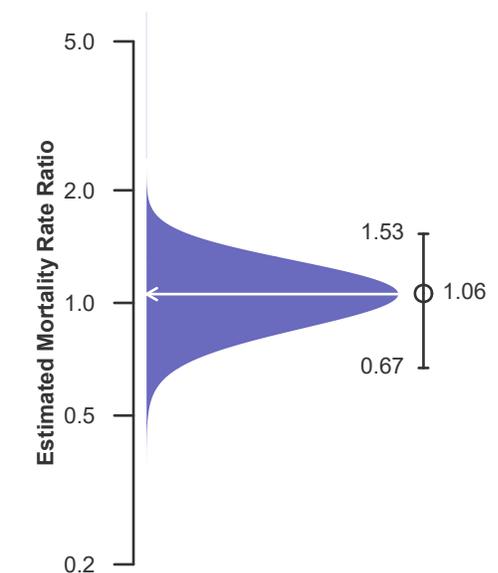
\* Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of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

\*\* Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or March 12, 2020.

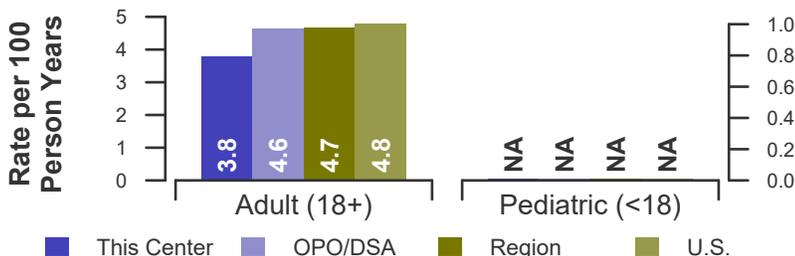
**Figure B4. Observed and expected waiting list mortality rates: 07/01/2018 - 03/12/2020**



**Figure B5. Waiting list mortality rate ratio estimate**



**Figure B6. Observed adult (18+) and pediatric (<18) waiting list mortality rates: 07/01/2018 - 03/12/2020**





## B. Waiting List Information

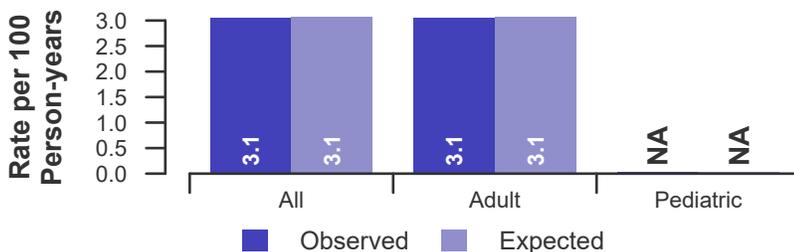
**Table B6. Rates of patient mortality after listing: 07/01/2018 - 03/12/2020**

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
<b>All Patients</b>				
Count at risk during the evaluation period	677	7,320	23,260	288,816
Person-years*	884.0	9,840.2	30,765.5	381,306.4
Number of Deaths	27	345	1,232	16,073
<b>Adult (18+) Patients</b>				
Count at risk during the evaluation period	677	7,040	22,563	280,336
Person-years*	884.0	9,439.3	29,814.0	369,696.7
Number of Deaths	27	340	1,226	16,004
<b>Pediatric (&lt;18) Patients</b>				
Count at risk during the evaluation period	0	280	697	8,480
Person-years*	0.0	400.8	951.4	11,609.7
Number of Deaths	0	5	6	69

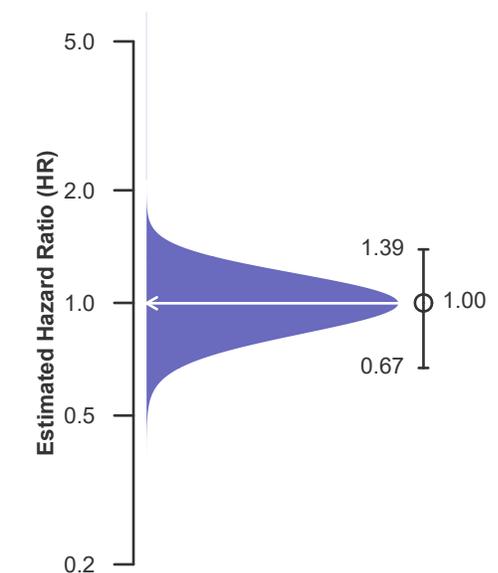
\* Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2018, or from the date of first wait listing until death, reaching 7 years after listing or March 12, 2020.

\*\* 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.

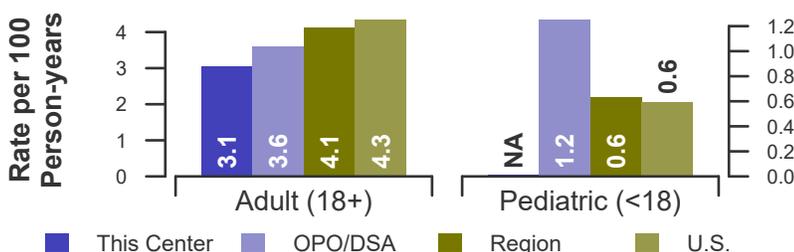
**Figure B7. Observed and expected rates of patient mortality after listing: 07/01/2018 - 03/12/2020**



**Figure B8. HR estimate of patient mortality after listing**



**Figure B9. Observed adult (18+) and pediatric (<18) rates of patient mortality after listing: 07/01/2018 - 03/12/2020**





## B. Waiting List Information

**Table B7. Waiting list candidate status after listing**  
Candidates registered on waiting list between 01/01/2018 and 12/31/2018

Waiting list status (survival status)	This Center (N=79)			U.S. (N=39,987)		
	Months Since Listing			Months Since Listing		
	6	12	18	6	12	18
<b>Alive on waiting list (%)</b>	82.3	72.2	64.6	77.4	64.2	54.1
<b>Died on the waiting list without transplant (%)</b>	0.0	2.5	3.8	1.0	1.9	2.8
<b>Removed without transplant (%):</b>						
Condition worsened (status unknown)	0.0	0.0	0.0	0.6	1.4	2.4
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.1	0.2
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.2
Other	0.0	0.0	0.0	0.8	1.6	2.6
<b>Transplant (living donor from waiting list only) (%):</b>						
Functioning (alive)	3.8	6.3	1.3	6.7	10.1	7.7
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.0	0.1	0.1
Status Yet Unknown**	0.0	0.0	7.6	0.1	0.6	5.0
<b>Transplant (deceased donor) (%):</b>						
Functioning (alive)	13.9	19.0	6.3	11.1	14.6	11.6
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	0.1
Died	0.0	0.0	0.0	0.2	0.4	0.7
Status Yet Unknown*	0.0	0.0	15.2	1.7	4.0	11.4
<b>Lost or Transferred (status unknown) (%)</b>	0.0	0.0	1.3	0.2	0.7	1.3
<b>TOTAL (%)</b>	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	2.5	3.8	1.2	2.4	3.6
Total % known died or removed as unstable	0.0	2.5	3.8	1.9	3.8	6.0
Total % removed for transplant	17.7	25.3	30.4	19.9	29.9	36.5
Total % with known functioning transplant (alive)	17.7	25.3	7.6	17.8	24.7	19.3

\* 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 07/01/2014 and 06/30/2017

Characteristic	N	Percent transplanted at time periods since listing								
		This Center				United States				
		30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
<b>All</b>	188	1.6	5.3	12.8	17.0	93,662	3.6	16.0	22.6	27.8
<b>Ethnicity/Race*</b>										
White	74	2.7	6.8	9.5	13.5	37,390	3.9	17.0	23.7	28.8
African-American	54	0.0	1.9	13.0	18.5	29,527	3.5	16.2	22.7	27.9
Hispanic/Latino	14	0.0	0.0	7.1	21.4	17,534	3.7	15.6	22.0	27.4
Asian	27	3.7	14.8	22.2	22.2	7,645	2.0	11.2	17.6	23.0
Other	19	0.0	0.0	15.8	15.8	1,566	4.5	19.5	25.9	31.6
Unknown	0	--	--	--	--	0	--	--	--	--
<b>Age</b>										
<2 years	0	--	--	--	--	128	5.5	36.7	53.9	68.0
2-11 years	0	--	--	--	--	852	8.3	48.4	62.0	70.8
12-17 years	0	--	--	--	--	1,407	7.8	49.3	62.2	67.9
18-34 years	34	2.9	5.9	17.6	20.6	9,563	3.5	17.6	25.9	32.9
35-49 years	56	1.8	7.1	8.9	16.1	23,762	3.3	15.0	21.9	27.7
50-64 years	81	1.2	3.7	14.8	17.3	40,111	3.6	14.8	20.7	25.5
65-69 years	15	0.0	6.7	6.7	13.3	12,262	3.7	14.8	20.6	25.1
70+ years	2	0.0	0.0	0.0	0.0	5,577	3.3	15.3	20.9	25.1
<b>Gender</b>										
Male	117	1.7	6.0	12.8	17.9	58,067	3.8	15.6	21.7	26.8
Female	71	1.4	4.2	12.7	15.5	35,595	3.4	16.8	24.0	29.5

\* 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 B9. Percent of candidates with deceased donor transplants: medical characteristics**  
Candidates registered on the waiting list between 07/01/2014 and 06/30/2017

Characteristic	N	Percent transplanted at time periods since listing								
		This Center				United States				
		30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
<b>All</b>	188	1.6	5.3	12.8	17.0	93,662	3.6	16.0	22.6	27.8
<b>Blood Type</b>										
O	92	2.2	3.3	8.7	9.8	46,625	3.3	14.0	19.5	24.0
A	53	1.9	11.3	20.8	28.3	29,375	4.4	19.0	26.9	33.2
B	32	0.0	3.1	12.5	18.8	14,175	2.4	13.1	19.2	24.0
AB	11	0.0	0.0	9.1	18.2	3,487	6.0	30.6	41.5	49.3
<b>Previous Transplant</b>										
Yes	23	0.0	13.0	21.7	34.8	12,856	2.7	16.4	24.4	29.8
No	165	1.8	4.2	11.5	14.5	80,806	3.8	16.0	22.3	27.5
<b>Peak PRA/CPRA</b>										
0-9%	134	2.2	4.5	10.4	14.2	75,317	3.9	15.5	21.6	26.8
10-79%	37	0.0	5.4	13.5	18.9	10,787	2.5	15.7	22.8	28.2
80+%	17	0.0	11.8	29.4	35.3	7,475	2.6	22.4	32.3	37.4
Unknown	0	--	--	--	--	7	100.0	100.0	100.0	100.0
<b>Primary Disease*</b>										
Glomerular Diseases	50	2.0	8.0	16.0	26.0	17,106	2.9	16.8	25.0	31.6
Tubular & Interstitial Diseases	8	0.0	0.0	0.0	0.0	3,474	4.6	19.5	27.3	32.6
Polycystic Kidneys	13	0.0	7.7	7.7	15.4	6,196	2.1	14.6	22.1	28.9
Congenital, Familial, Metabolic	1	0.0	0.0	0.0	0.0	1,840	4.9	29.2	39.0	46.6
Diabetes	53	1.9	1.9	3.8	3.8	32,973	2.4	11.7	16.6	20.7
Renovascular & Vascular Diseases	1	0.0	0.0	0.0	0.0	142	6.3	20.4	27.5	33.8
Neoplasms	1	0.0	0.0	0.0	0.0	288	5.6	22.2	28.5	34.7
Hypertensive Nephrosclerosis	26	3.8	7.7	26.9	34.6	20,390	3.4	15.9	22.6	28.2
Other	34	0.0	2.9	14.7	14.7	10,889	9.1	25.7	32.9	37.5
Missing*	1	0.0	100.0	100.0	100.0	364	1.4	11.0	16.5	20.9

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



## B. Waiting List Information

**Table B10. Time to transplant for waiting list candidates\***

Candidates registered on the waiting list between 07/01/2014 and 12/31/2019

Percentile	Center	Months to Transplant**		U.S.
		OPO/DSA	Region	
5th	1.7	0.5	0.6	0.9
10th	5.0	2.1	2.1	2.5
25th	17.6	7.2	7.9	9.7
50th (median time to transplant)	56.1	27.1	32.4	42.4
75th	Not Observed	Not Observed	Not Observed	Not Observed

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

\*\* Censored on 06/30/2020. 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: 07/01/2019 - 03/12/2020**

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
<b>Overall</b>				
Number of Offers	3,081	19,981	76,196	1,489,166
Number of Acceptances	25	196	754	11,332
Expected Acceptances	28.4	220.5	806.3	11,315.1
Offer Acceptance Ratio*	0.89	0.89	0.94	1.00
95% Credible Interval**	[0.59, 1.25]	--	--	--
<b>Low-KDRI Donors (KDRI &lt; 1.05)</b>				
Number of Offers	398	2,644	9,710	148,107
Number of Acceptances	11	79	222	3,735
Expected Acceptances	13.4	89.9	247.3	3,727.8
Offer Acceptance Ratio*	0.84	0.88	0.90	1.00
95% Credible Interval**	[0.45, 1.36]	--	--	--
<b>Medium-KDRI Donors (1.05 &lt; KDRI &lt; 1.75)</b>				
Number of Offers	2,006	12,852	49,028	1,024,741
Number of Acceptances	14	98	410	6,217
Expected Acceptances	11.2	100.7	443.4	6,209.0
Offer Acceptance Ratio*	1.21	0.97	0.92	1.00
95% Credible Interval**	[0.69, 1.87]	--	--	--
<b>High-KDRI Donors (KDRI &gt; 1.75)</b>				
Number of Offers	677	4,485	17,458	316,318
Number of Acceptances	0	19	122	1,380
Expected Acceptances	3.8	29.9	115.6	1,378.3
Offer Acceptance Ratio*	0.35	0.66	1.05	1.00
95% Credible Interval**	[0.04, 0.97]	--	--	--
<b>Hard-to-Place Kidneys (Over 100 Offers)</b>				
Number of Offers	2,617	16,822	59,627	1,289,977
Number of Acceptances	2	12	80	1,603
Expected Acceptances	3.7	24.9	92.8	1,598.9
Offer Acceptance Ratio*	0.70	0.52	0.86	1.00
95% Credible Interval**	[0.19, 1.53]	--	--	--

\* The offer acceptance ratio estimates the relative offer acceptance practice of Hennepin County Medical Center (MNHC) 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, [0.59, 1.25], indicates the location of MNHC's true offer acceptance ratio with 95% probability. The best estimate is 11% less likely to accept an offer compared to national acceptance behavior, but MNHC's performance could plausibly range from 41% reduced acceptance up to 25% higher acceptance.



## B. Waiting List Information

Figure B10. Offer acceptance: Overall

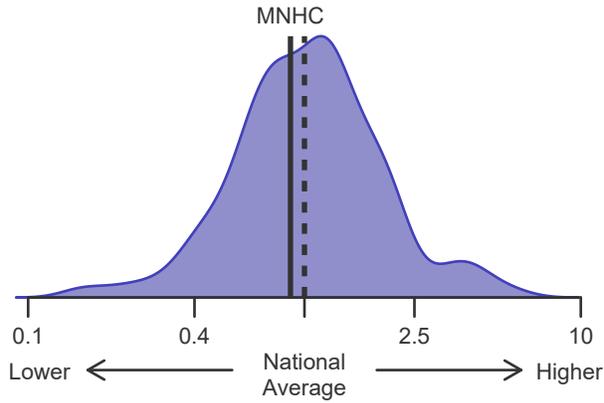


Figure B11. Offer acceptance: Low-KDRI

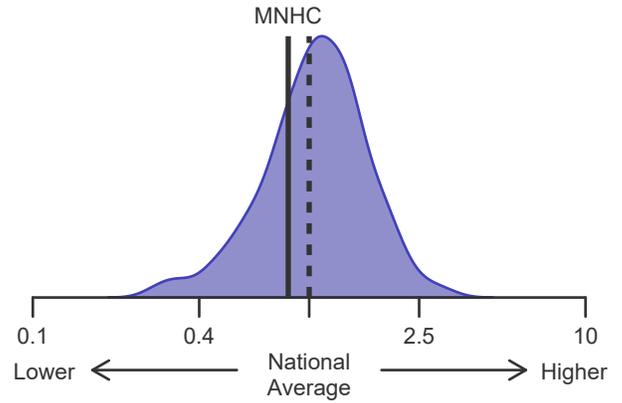


Figure B12. Offer acceptance: Medium-KDRI

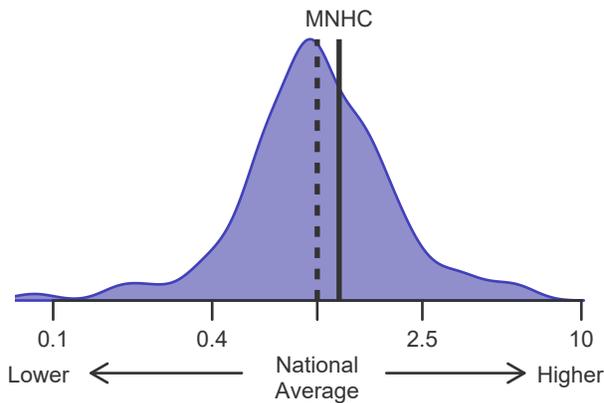


Figure B13. Offer acceptance: High-KDRI

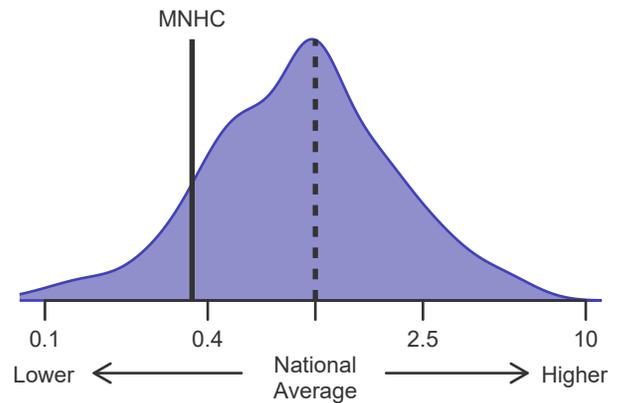
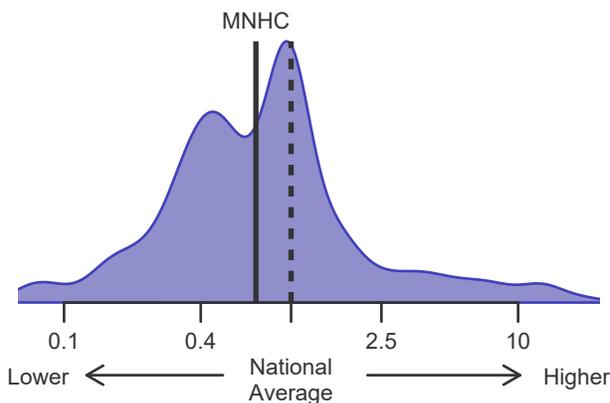


Figure B14. Offer acceptance: Offer number > 100





## C. Transplant Information

**Table C1D. Deceased donor transplant recipient demographic characteristics**  
Patients transplanted between 07/01/2019 and 06/30/2020

Characteristic	Percentage in each category		
	Center (N=32)	Region (N=1,120)	U.S. (N=16,870)
<b>Ethnicity/Race (%)*</b>			
White	43.8	44.4	37.8
African-American	37.5	26.5	32.2
Hispanic/Latino	9.4	17.3	20.3
Asian	6.2	8.9	7.8
Other	3.1	2.9	1.9
Unknown	0.0	0.0	0.0
<b>Age (%)</b>			
<2 years	0.0	0.2	0.1
2-11 years	0.0	1.2	1.2
12-17	0.0	2.1	1.6
18-34	18.8	9.6	10.3
35-49 years	21.9	23.8	23.9
50-64 years	43.8	39.5	40.3
65-69 years	6.2	14.5	13.2
70+ years	9.4	9.3	9.5
<b>Gender (%)</b>			
Male	68.8	57.9	60.4
Female	31.2	42.1	39.6

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



## C. Transplant Information

**Table C1L. Living donor transplant recipient demographic characteristics**  
Patients transplanted between 07/01/2019 and 06/30/2020

Characteristic	Percentage in each category		
	Center (N=16)	Region (N=697)	U.S. (N=5,777)
<b>Ethnicity/Race (%)*</b>			
White	87.5	71.7	65.1
African-American	12.5	9.6	12.4
Hispanic/Latino	0.0	10.8	14.7
Asian	0.0	6.2	6.4
Other	0.0	1.7	1.4
Unknown	0.0	0.0	0.0
<b>Age (%)</b>			
<2 years	0.0	0.3	0.2
2-11 years	0.0	1.7	1.7
12-17	0.0	1.4	1.7
18-34	6.2	13.9	15.9
35-49 years	37.5	24.4	25.7
50-64 years	37.5	36.3	35.3
65-69 years	18.8	13.2	10.9
70+ years	0.0	8.8	8.7
<b>Gender (%)</b>			
Male	62.5	61.1	62.3
Female	37.5	38.9	37.7

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



## C. Transplant Information

**Table C2D. Deceased donor transplant recipient medical characteristics**  
Patients transplanted between 07/01/2019 and 06/30/2020

Characteristic	Percentage in each category		
	Center (N=32)	Region (N=1,120)	U.S. (N=16,870)
<b>Blood Type (%)</b>			
O	46.9	43.7	45.5
A	31.2	36.6	35.2
B	9.4	14.0	14.1
AB	12.5	5.7	5.3
<b>Previous Transplant (%)</b>			
Yes	6.2	15.2	12.6
No	93.8	84.8	87.4
<b>Peak PRA/CPRA Prior to Transplant (%)</b>			
0-9%	59.4	61.6	61.2
10-79%	34.4	21.1	22.8
80+ %	6.2	17.3	16.0
Unknown	0.0	0.0	0.0
<b>Body Mass Index (%)</b>			
0-20	12.5	10.4	9.4
21-25	18.8	27.1	27.1
26-30	37.5	26.6	30.6
31-35	18.8	21.3	21.1
36-40	12.5	8.8	8.1
41+	0.0	2.7	1.5
Unknown	0.0	3.2	2.2
<b>Primary Disease (%)*</b>			
Glomerular Diseases	34.4	20.9	21.2
Tubular and Interstitial Disease	0.0	4.8	4.0
Polycystic Kidneys	9.4	7.6	7.5
Congenital, Familial, Metabolic	0.0	2.9	2.6
Diabetes	21.9	29.0	30.1
Renovascular & Vascular Diseases	0.0	0.2	0.2
Neoplasms	0.0	0.4	0.4
Hypertensive Nephrosclerosis	12.5	20.5	23.0
Other Kidney	21.9	13.3	10.7
Missing*	0.0	0.4	0.2

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



## C. Transplant Information

**Table C2L. Living donor transplant recipient medical characteristics**  
Patients transplanted between 07/01/2019 and 06/30/2020

Characteristic	Percentage in each category		
	Center (N=16)	Region (N=697)	U.S. (N=5,777)
<b>Blood Type (%)</b>			
O	31.2	40.9	43.4
A	43.8	42.3	38.8
B	25.0	13.3	14.1
AB	0.0	3.4	3.7
<b>Previous Transplant (%)</b>			
Yes	6.2	12.3	10.3
No	93.8	87.7	89.7
<b>Peak PRA/CPRA Prior to Transplant (%)</b>			
0-9%	75.0	73.2	74.8
10-79%	25.0	22.1	20.0
80+ %	0.0	4.7	5.2
Unknown	0.0	0.0	0.0
<b>Body Mass Index (%)</b>			
0-20	6.2	11.0	11.3
21-25	25.0	27.3	27.7
26-30	31.2	30.8	31.6
31-35	12.5	19.4	19.5
36-40	25.0	8.6	7.7
41+	0.0	2.7	1.1
Unknown	0.0	0.1	1.1
<b>Primary Disease (%)*</b>			
Glomerular Diseases	18.8	28.4	28.0
Tubular and Interstitial Disease	0.0	5.6	5.5
Polycystic Kidneys	37.5	13.9	13.1
Congenital, Familial, Metabolic	0.0	4.2	3.8
Diabetes	25.0	25.0	24.8
Renovascular & Vascular Diseases	0.0	0.1	0.3
Neoplasms	6.2	0.6	0.4
Hypertensive Nephrosclerosis	6.2	12.3	15.1
Other Kidney	6.2	9.6	8.9
Missing*	0.0	0.3	0.2

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



## C. Transplant Information

**Table C3D. Deceased donor characteristics**  
Transplants performed between 07/01/2019 and 06/30/2020

Donor Characteristic	Percentage in each category		
	Center (N=32)	Region (N=1,120)	U.S. (N=16,870)
<b>Cause of Death (%)</b>			
Deceased: Stroke	6.2	23.6	22.7
Deceased: MVA	12.5	10.1	13.3
Deceased: Other	81.2	66.3	63.9
<b>Ethnicity/Race (%)*</b>			
White	68.8	71.2	66.8
African-American	12.5	13.6	13.2
Hispanic/Latino	9.4	12.1	15.8
Asian	0.0	1.7	2.9
Other	9.4	1.5	1.2
Not Reported	0.0	0.0	0.0
<b>Age (%)</b>			
<2 years	0.0	1.1	0.8
2-11 years	6.2	3.0	2.5
12-17	0.0	5.4	3.8
18-34	50.0	29.0	33.6
35-49 years	21.9	27.9	31.7
50-64 years	21.9	30.4	25.2
65-69 years	0.0	2.4	2.0
70+ years	0.0	0.8	0.5
<b>Gender (%)</b>			
Male	71.9	64.6	63.0
Female	28.1	35.4	37.0
<b>Blood Type (%)</b>			
O	46.9	45.8	47.2
A	37.5	37.9	37.6
B	9.4	12.1	11.7
AB	6.2	4.2	3.5
Unknown	0.0	0.0	0.0

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



## C. Transplant Information

**Table C3L. Living donor characteristics**  
Transplants performed between 07/01/2019 and 06/30/2020

Donor Characteristic	Percentage in each category		
	Center (N=16)	Region (N=697)	U.S. (N=5,777)
<b>Ethnicity/Race (%)*</b>			
White	93.8	77.5	71.5
African-American	6.2	6.5	7.9
Hispanic/Latino	0.0	11.0	14.0
Asian	0.0	3.4	4.9
Other	0.0	1.6	1.6
Not Reported	0.0	0.0	0.0
<b>Age (%)</b>			
0-11 years	0.0	0.0	0.0
12-17	0.0	0.0	0.0
18-34	18.8	21.5	25.9
35-49 years	25.0	37.0	38.3
50-64 years	37.5	33.9	29.8
65-69 years	18.8	5.2	4.5
70+ years	0.0	2.4	1.5
<b>Gender (%)</b>			
Male	43.8	33.4	35.1
Female	56.2	66.6	64.9
<b>Blood Type (%)</b>			
O	75.0	58.5	62.6
A	18.8	31.9	27.4
B	6.2	8.3	8.6
AB	0.0	1.3	1.4
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 07/01/2019 and 06/30/2020

Transplant Characteristic	Percentage in each category		
	Center (N=32)	Region (N=1,120)	U.S. (N=16,870)
<b>Cold Ischemic Time (Hours): Local (%)</b>			
Deceased: 0-11 hr	13.0	40.7	34.3
Deceased: 12-21 hr	78.3	49.7	47.8
Deceased: 22-31 hr	8.7	8.7	14.6
Deceased: 32-41 hr	0.0	0.1	1.6
Deceased: 42+ hr	0.0	0.0	0.5
Not Reported	0.0	0.8	1.2
<b>Cold Ischemic Time (Hours): Shared (%)</b>			
Deceased: 0-11 hr	22.2	17.5	9.2
Deceased: 12-21 hr	33.3	50.6	36.3
Deceased: 22-31 hr	44.4	29.6	38.4
Deceased: 32-41 hr	0.0	1.2	11.7
Deceased: 42+ hr	0.0	0.4	3.1
Not Reported	0.0	0.8	1.3
<b>Level of Mismatch (%)</b>			
<b>A Locus Mismatches (%)</b>			
0	21.9	11.1	11.2
1	34.4	38.7	39.7
2	43.8	49.4	48.9
Not Reported	0.0	0.9	0.2
<b>B Locus Mismatches (%)</b>			
0	6.2	7.0	7.0
1	9.4	22.6	25.0
2	84.4	69.6	67.7
Not Reported	0.0	0.9	0.2
<b>DR Locus Mismatches (%)</b>			
0	12.5	14.6	16.0
1	65.6	48.4	47.7
2	21.9	36.2	36.1
Not Reported	0.0	0.9	0.2
<b>Total Mismatches (%)</b>			
0	6.2	4.5	4.5
1	0.0	1.5	1.1
2	6.2	4.4	4.7
3	12.5	13.3	13.9
4	25.0	25.4	27.3
5	40.6	32.3	33.0
6	9.4	17.8	15.2
Not Reported	0.0	0.9	0.2
<b>Procedure Type (%)</b>			
Kidney alone	100.0	92.1	93.8
Kidney and another organ	0.0	7.9	6.2
<b>Dialysis in First Week After Transplant (%)</b>			
Yes	28.1	24.1	28.6
No	71.9	75.8	70.9
Not Reported	0.0	0.1	0.5
<b>Sharing (%)</b>			
Local	71.9	77.1	69.6
Shared	28.1	22.9	30.4
<b>Median Time in Hospital After Transplant*</b>	5.0 Days	5.0 Days	5.0 Days

\* Multiple organ transplants are excluded from this statistic.



## C. Transplant Information

**Table C4L. Living donor transplant characteristics**  
Transplants performed between 07/01/2019 and 06/30/2020

Transplant Characteristic	Percentage in each category		
	Center (N=16)	Region (N=697)	U.S. (N=5,777)
<b>Relation with Donor (%)</b>			
Related	12.5	35.7	37.9
Unrelated	87.5	64.3	61.7
Not Reported	0.0	0.0	0.3
<b>Level of Mismatch (%)</b>			
<b>A Locus Mismatches (%)</b>			
0	12.5	17.8	16.2
1	56.2	49.5	48.6
2	31.2	32.7	31.6
Not Reported	0.0	0.0	3.5
<b>B Locus Mismatches (%)</b>			
0	6.2	10.9	9.7
1	43.8	42.2	41.6
2	50.0	46.8	45.1
Not Reported	0.0	0.1	3.6
<b>DR Locus Mismatches (%)</b>			
0	6.2	17.2	15.1
1	37.5	49.1	48.4
2	56.2	33.7	33.0
Not Reported	0.0	0.0	3.5
<b>Total Mismatches (%)</b>			
0	6.2	5.7	4.3
1	0.0	4.0	4.1
2	0.0	11.3	11.5
3	12.5	23.4	23.0
4	43.8	20.1	18.2
5	25.0	22.2	22.8
6	12.5	13.1	12.5
Not Reported	0.0	0.1	3.6
<b>Procedure Type (%)</b>			
Kidney alone	100.0	100.0	100.0
Kidney and another organ	0.0	0.0	0.0
<b>Dialysis in First Week After Transplant (%)</b>			
Yes	0.0	2.2	2.7
No	100.0	97.8	96.8
Not Reported	0.0	0.0	0.5
<b>Median Time in Hospital After Transplant*</b>	4.0 Days	4.0 Days	4.0 Days

\* Multiple organ transplants are excluded from this statistic.



## C. Transplant Information

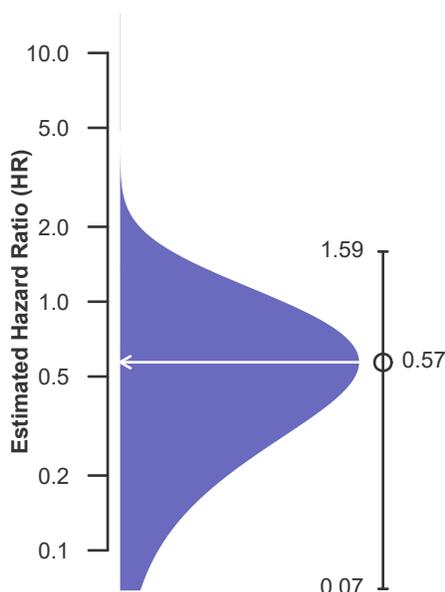
**Table C5. Adult (18+) 1-month survival with a functioning graft**  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Deaths and retransplants are considered graft failures

	MNHC	U.S.
Number of transplants evaluated	119	50,251
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.67%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.75%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	669
Number of expected graft failures (including deaths) during the first month after transplant	1.50	--
Estimated hazard ratio*	0.57	--
95% credible interval for the hazard ratio**	[0.07, 1.59]	--

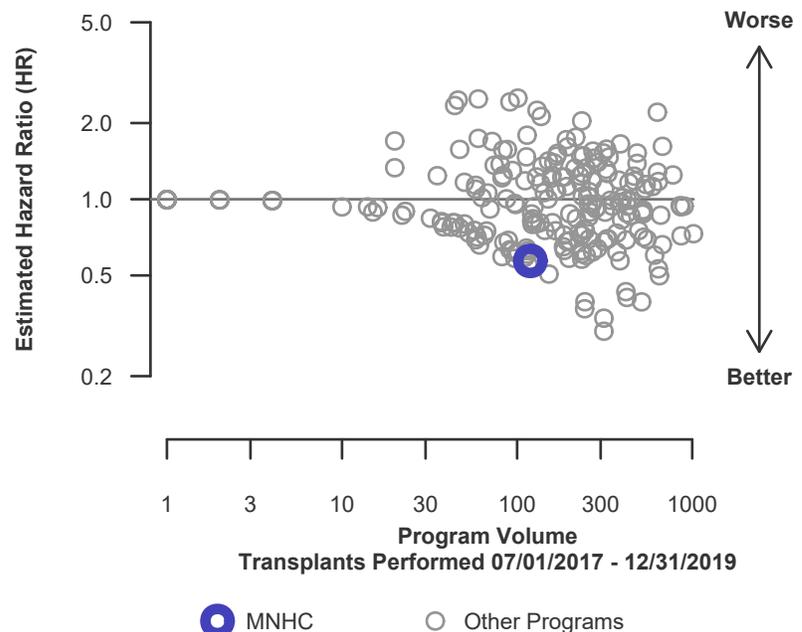
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.07, 1.59], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 43% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 93% reduced risk up to 59% 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

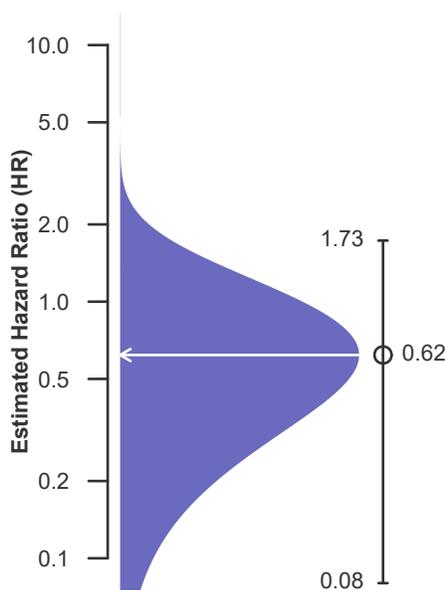
**Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

	MNHC	U.S.
Number of transplants evaluated	86	34,632
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.42%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.58%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	547
Number of expected graft failures (including deaths) during the first month after transplant	1.23	--
Estimated hazard ratio*	0.62	--
95% credible interval for the hazard ratio**	[0.08, 1.73]	--

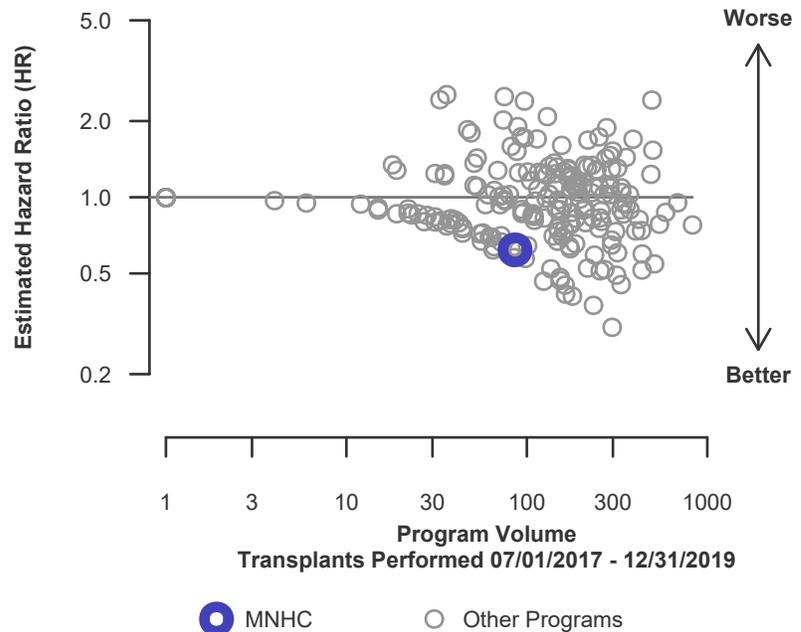
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.08, 1.73], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 38% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 92% reduced risk up to 73% 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

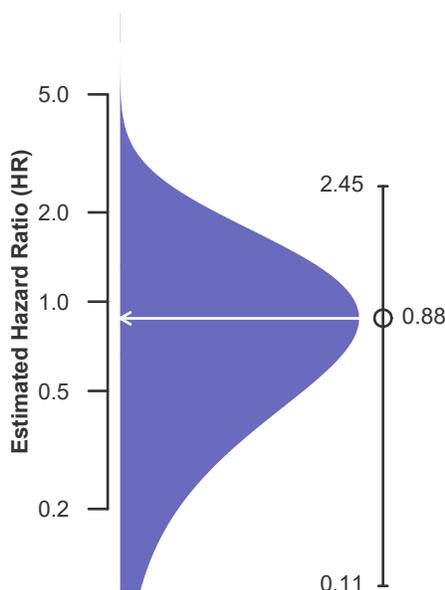
**Table C5L. Adult (18+) 1-month survival with a functioning living donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

	MNHC	U.S.
Number of transplants evaluated	33	15,619
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.22%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.17%	--
Number of observed graft failures (including deaths) during the first month after transplant	0	122
Number of expected graft failures (including deaths) during the first month after transplant	0.28	--
Estimated hazard ratio*	0.88	--
95% credible interval for the hazard ratio**	[0.11, 2.45]	--

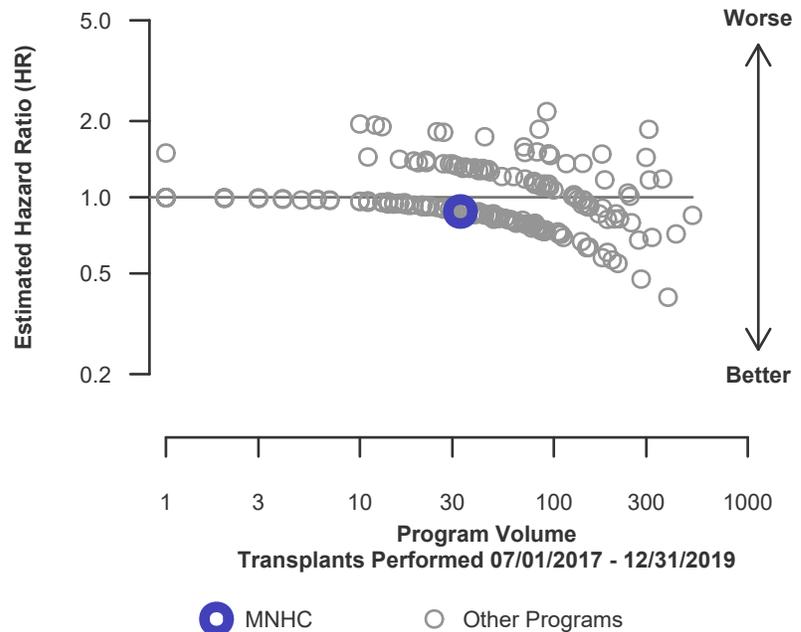
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

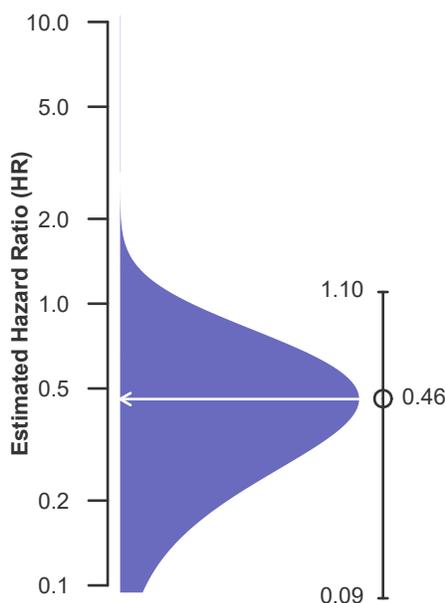
**Table C6. Adult (18+) 1-year survival with a functioning graft**  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Deaths and retransplants are considered graft failures

	MNHC	U.S.
Number of transplants evaluated	119	50,251
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	99.14%	95.75%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.98%	--
Number of observed graft failures (including deaths) during the first year after transplant	1	1,946
Number of expected graft failures (including deaths) during the first year after transplant	4.54	--
Estimated hazard ratio*	0.46	--
95% credible interval for the hazard ratio**	[0.09, 1.10]	--

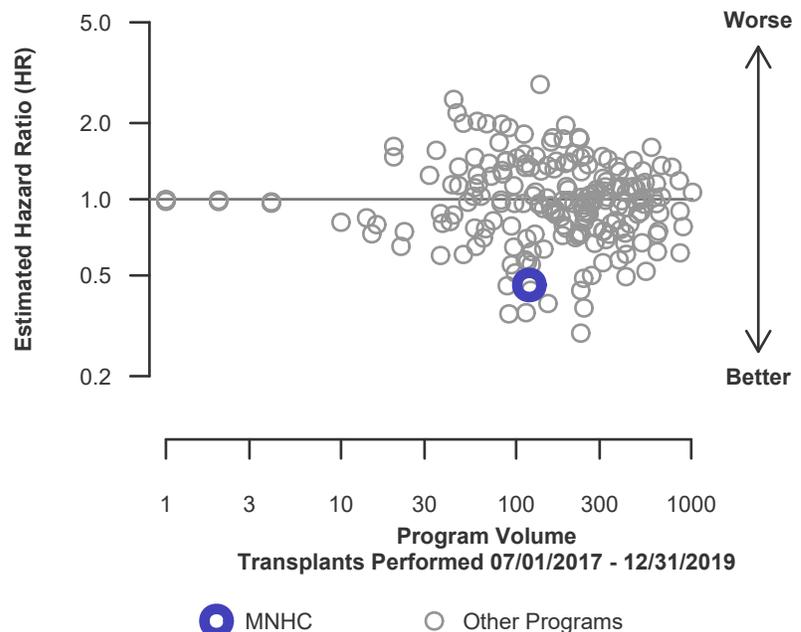
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.09, 1.10], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 54% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 91% reduced risk up to 10% 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

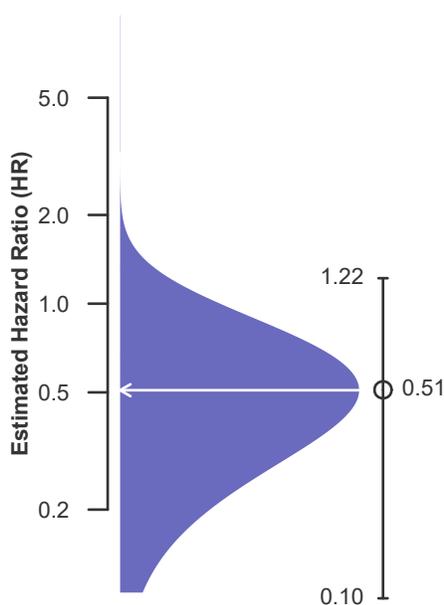
**Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

	MNHC	U.S.
Number of transplants evaluated	86	34,632
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	98.80%	94.73%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.25%	--
Number of observed graft failures (including deaths) during the first year after transplant	1	1,661
Number of expected graft failures (including deaths) during the first year after transplant	3.90	--
Estimated hazard ratio*	0.51	--
95% credible interval for the hazard ratio**	[0.10, 1.22]	--

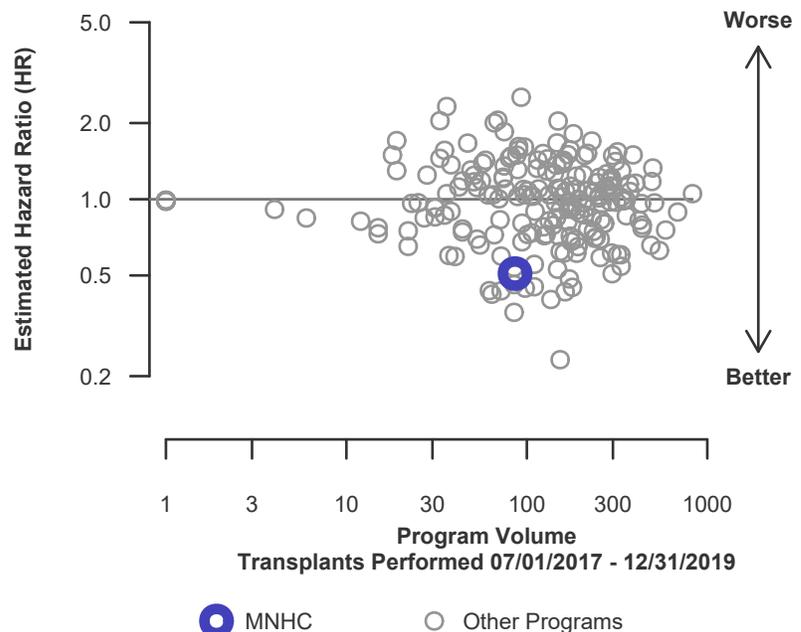
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.10, 1.22], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 49% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 90% reduced risk up to 22% 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

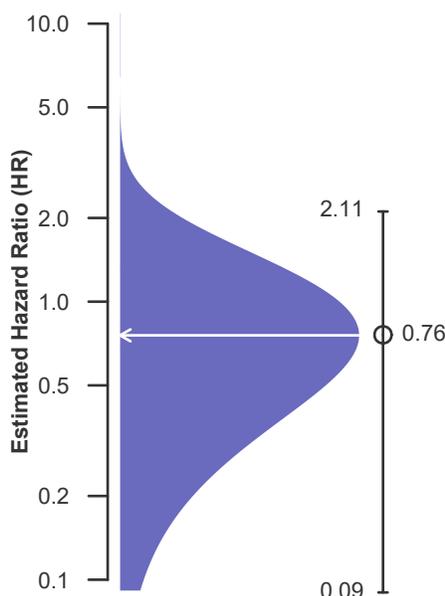
**Table C6L. Adult (18+) 1-year survival with a functioning living donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

	MNHC	U.S.
Number of transplants evaluated	33	15,619
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.02%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.88%	--
Number of observed graft failures (including deaths) during the first year after transplant	0	285
Number of expected graft failures (including deaths) during the first year after transplant	0.64	--
Estimated hazard ratio*	0.76	--
95% credible interval for the hazard ratio**	[0.09, 2.11]	--

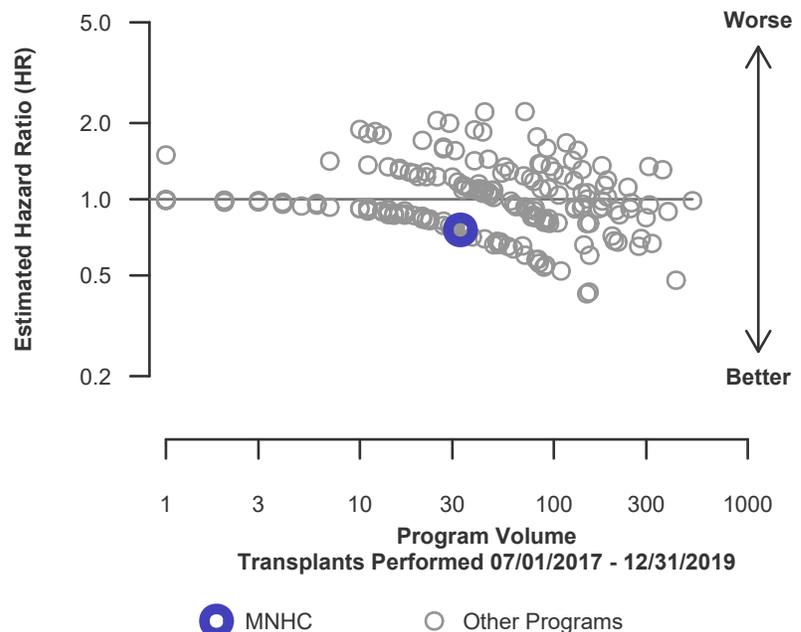
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.09, 2.11], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 24% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 91% reduced risk up to 111% 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

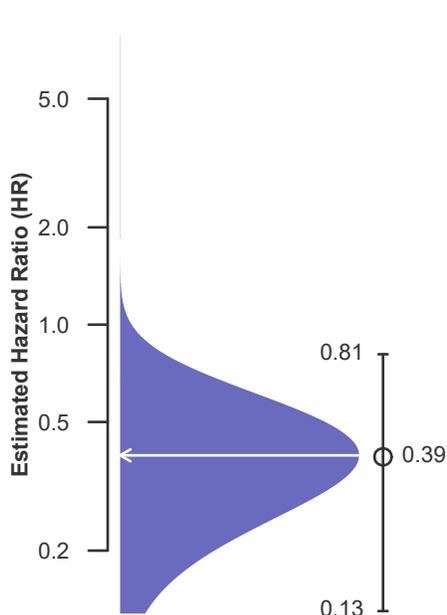
**Table C7. Adult (18+) 3-year survival with a functioning graft**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Deaths and retransplants are considered graft failures**

	MNHC	U.S.
Number of transplants evaluated	126	42,472
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	97.62%	89.69%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.52%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	4,352
Number of expected graft failures (including deaths) during the first 3 years after transplant	10.68	--
Estimated hazard ratio*	0.39	--
95% credible interval for the hazard ratio**	[0.13, 0.81]	--

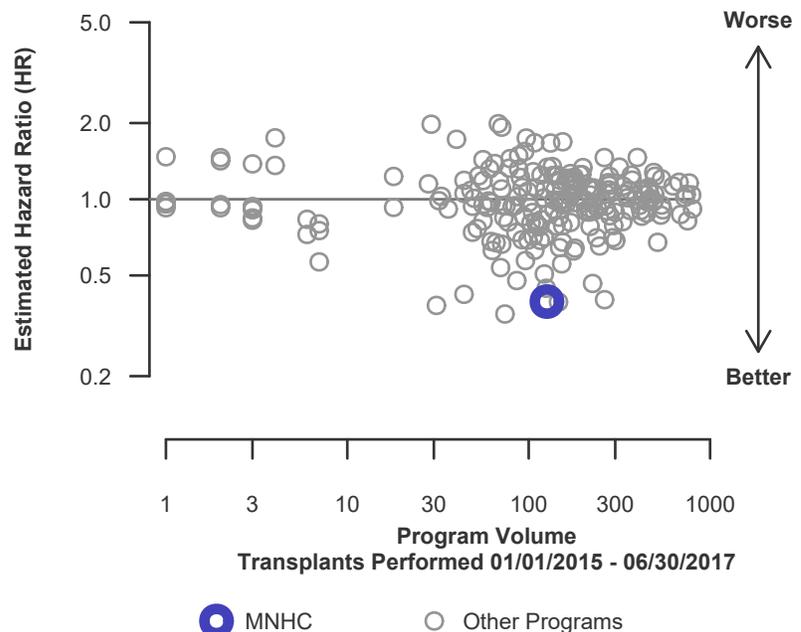
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.13, 0.81], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 61% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 87% reduced risk up to 19% reduced 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

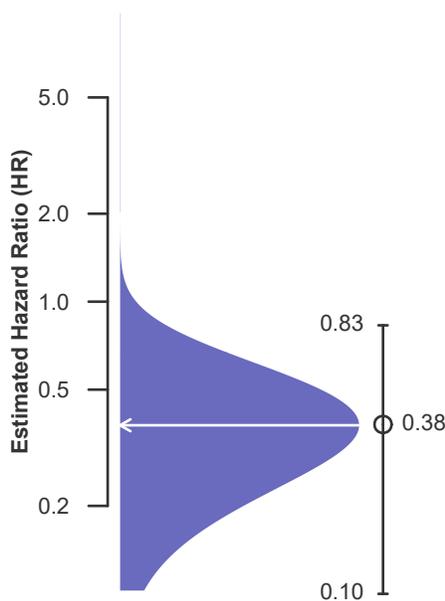
**Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Deaths and retransplants are considered graft failures**

	MNHC	U.S.
Number of transplants evaluated	83	29,060
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	97.59%	87.51%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.69%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	3,610
Number of expected graft failures (including deaths) during the first 3 years after transplant	8.59	--
Estimated hazard ratio*	0.38	--
95% credible interval for the hazard ratio**	[0.10, 0.83]	--

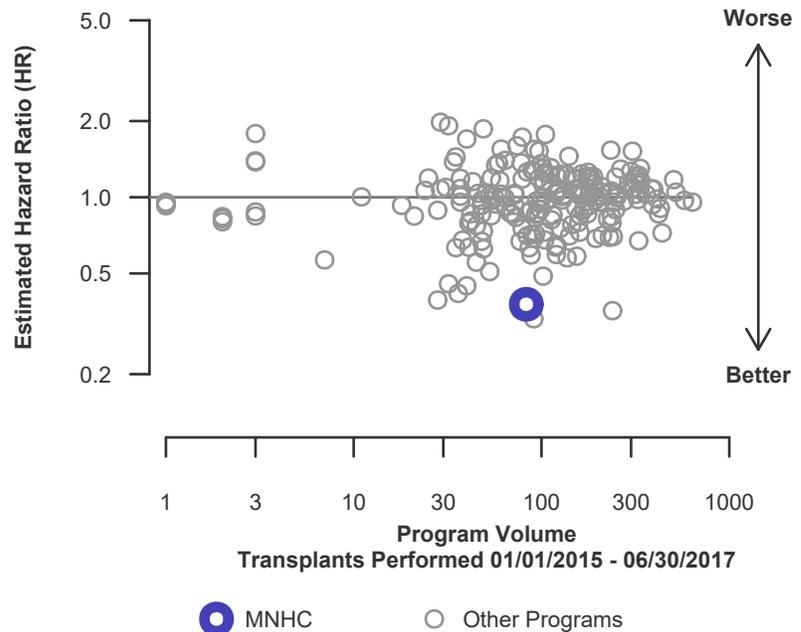
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.10, 0.83], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 62% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 90% reduced risk up to 17% reduced 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

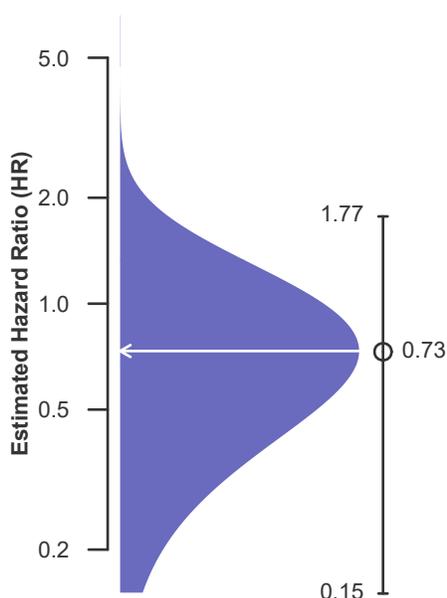
**Table C7L. Adult (18+) 3-year survival with a functioning living donor graft**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Deaths and retransplants are considered graft failures**

	MNHC	U.S.
Number of transplants evaluated	43	13,412
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	97.67%	94.42%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.04%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	742
Number of expected graft failures (including deaths) during the first 3 years after transplant	2.09	--
Estimated hazard ratio*	0.73	--
95% credible interval for the hazard ratio**	[0.15, 1.77]	--

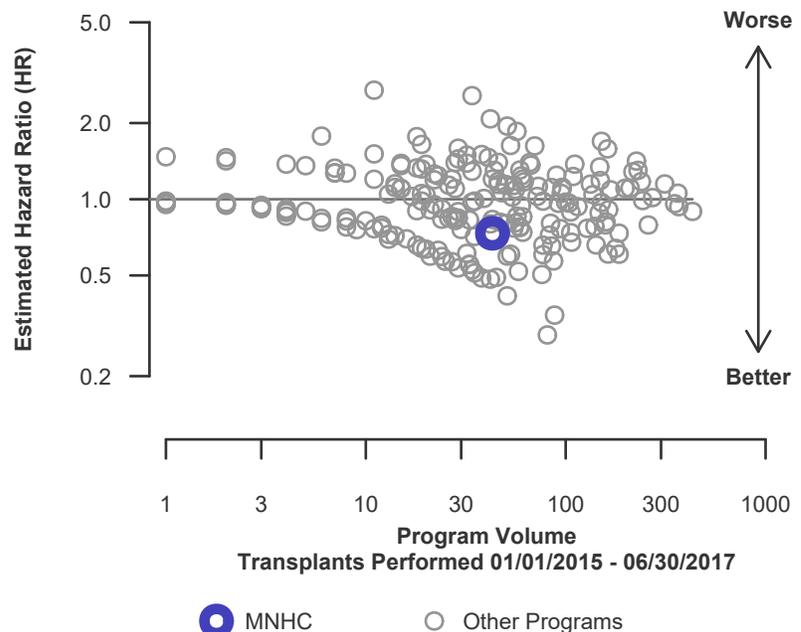
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.15, 1.77], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 27% lower risk of graft failure compared to an average program, but MNHC's performance could plausibly range from 85% reduced risk up to 77% 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 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C8L. Pediatric (<18) 1-month survival with a functioning living donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C9. Pediatric (<18) 1-year survival with a functioning graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C9L. Pediatric (<18) 1-year survival with a functioning living donor graft**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C10. Pediatric (<18) 3-year survival with a functioning graft**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017



## C. Transplant Information

**Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017



## C. Transplant Information

**Table C10L. Pediatric (<18) 3-year survival with a functioning living donor graft**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Deaths and retransplants are considered graft failures**

This center did not perform any  
transplants relevant to  
this table during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017

**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  
01/01/2015-06/30/2017



## C. Transplant Information

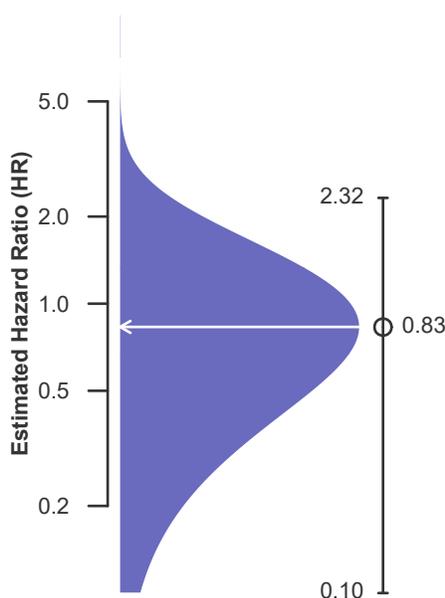
**Table C11. Adult (18+) 1-month patient survival**  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded

	MNHC	U.S.
Number of transplants evaluated	101	44,658
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.56%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.60%	--
Number of observed deaths during the first month after transplant	0	198
Number of expected deaths during the first month after transplant	0.41	--
Estimated hazard ratio*	0.83	--
95% credible interval for the hazard ratio**	[0.10, 2.32]	--

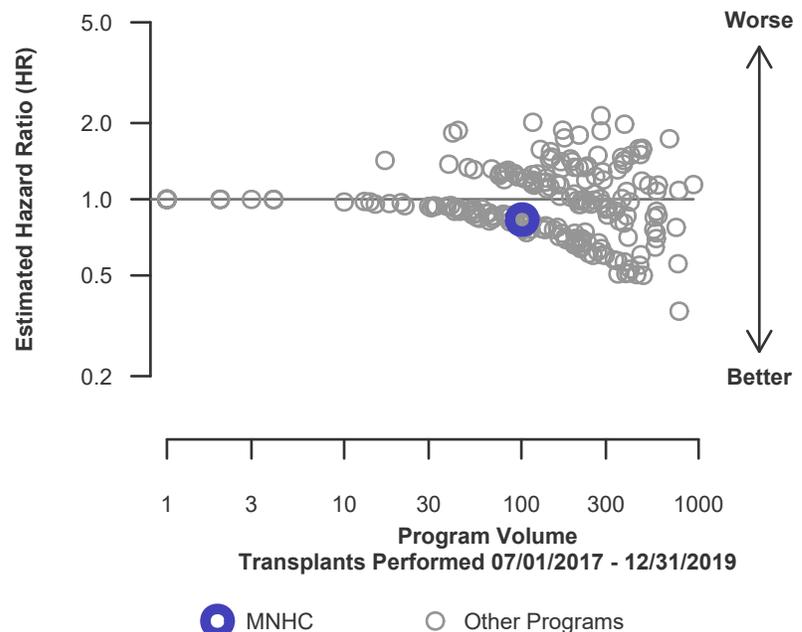
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.10, 2.32], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 17% lower risk of patient death compared to an average program, but MNHC's performance could plausibly range from 90% reduced risk up to 132% 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

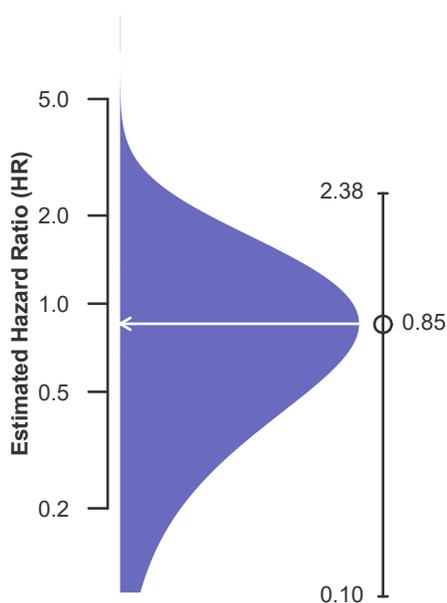
**Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients)**  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded

	MNHC	U.S.
Number of transplants evaluated	74	30,522
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.45%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.54%	--
Number of observed deaths during the first month after transplant	0	167
Number of expected deaths during the first month after transplant	0.34	--
Estimated hazard ratio*	0.85	--
95% credible interval for the hazard ratio**	[0.10, 2.38]	--

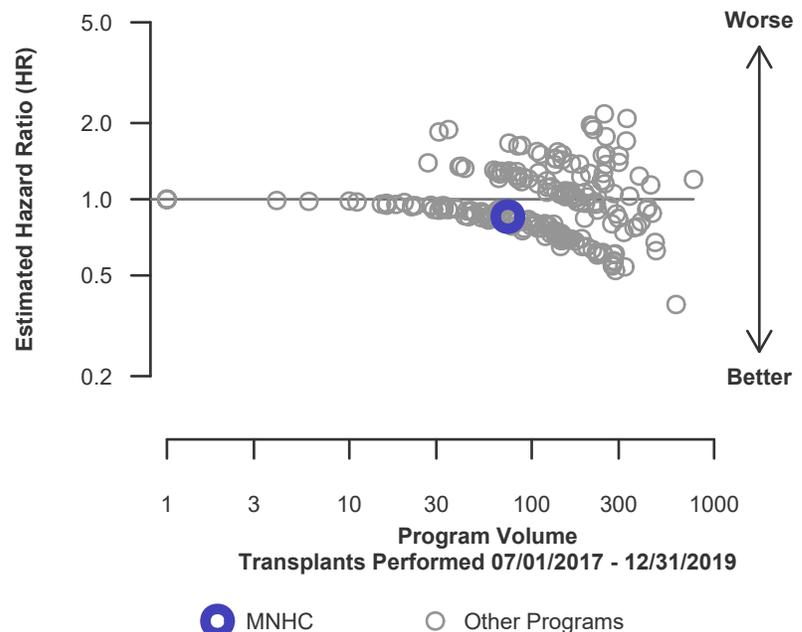
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.10, 2.38], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 15% lower risk of patient death compared to an average program, but MNHC's performance could plausibly range from 90% reduced risk up to 138% 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

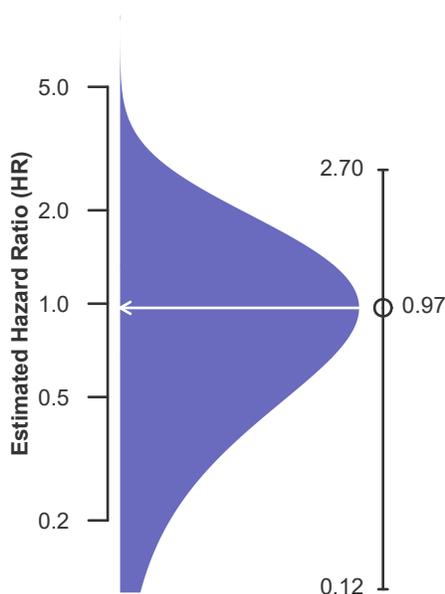
**Table C11L. Adult (18+) 1-month patient survival (living donor graft recipients)**  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded

	MNHC	U.S.
Number of transplants evaluated	27	14,136
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.78%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.76%	--
Number of observed deaths during the first month after transplant	0	31
Number of expected deaths during the first month after transplant	0.06	--
Estimated hazard ratio*	0.97	--
95% credible interval for the hazard ratio**	[0.12, 2.70]	--

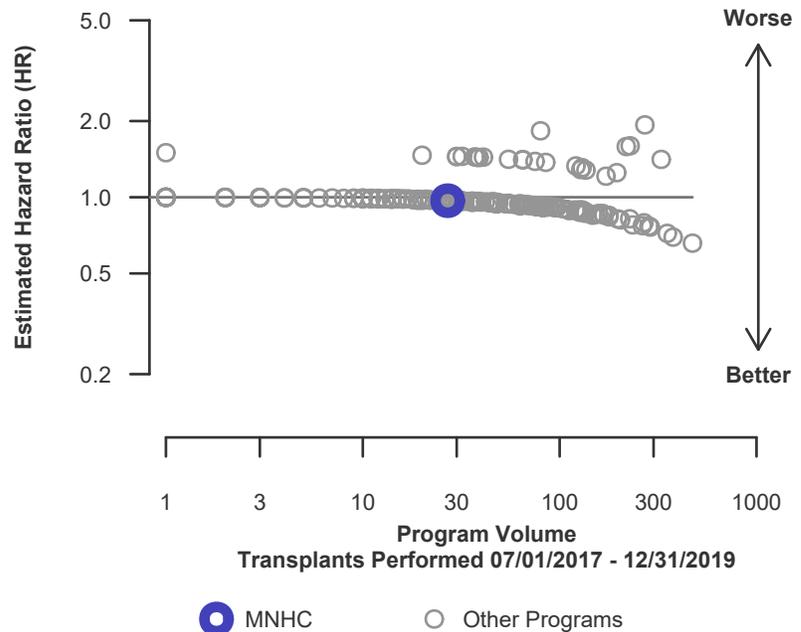
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.12, 2.70], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but MNHC's performance could plausibly range from 88% reduced risk up to 170% 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

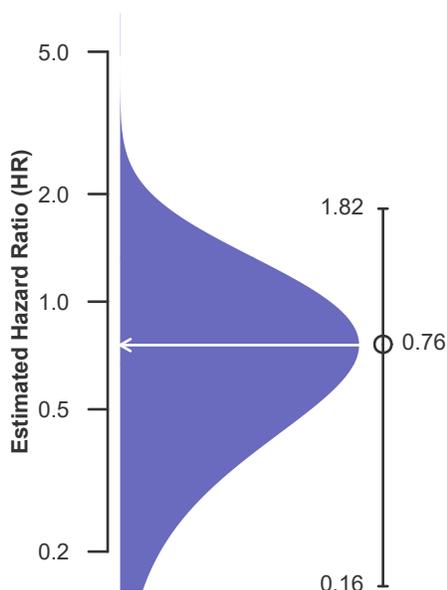
**Table C12. Adult (18+) 1-year patient survival**  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded

	MNHC	U.S.
Number of transplants evaluated	101	44,658
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.98%	97.61%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.82%	--
Number of observed deaths during the first year after transplant	1	943
Number of expected deaths during the first year after transplant	1.97	--
Estimated hazard ratio*	0.76	--
95% credible interval for the hazard ratio**	[0.16, 1.82]	--

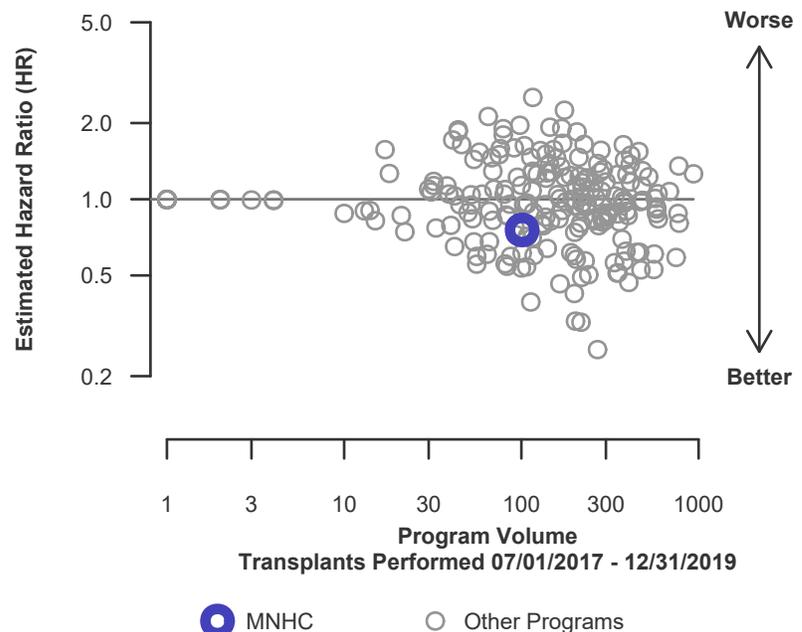
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.16, 1.82], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 24% lower risk of patient death compared to an average program, but MNHC's performance could plausibly range from 84% reduced risk up to 82% 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

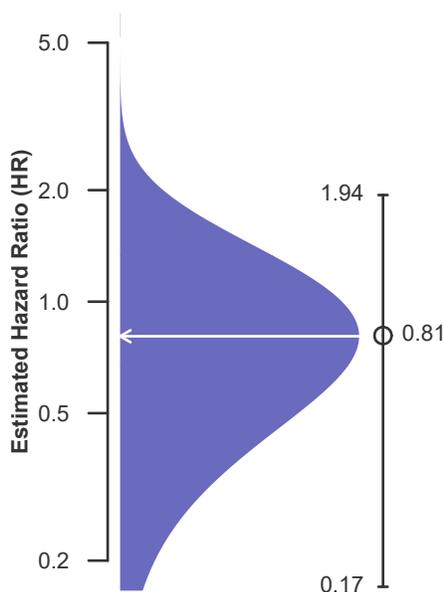
**Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Retransplants excluded**

	MNHC	U.S.
Number of transplants evaluated	74	30,522
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.59%	96.96%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.41%	--
Number of observed deaths during the first year after transplant	1	818
Number of expected deaths during the first year after transplant	1.72	--
Estimated hazard ratio*	0.81	--
95% credible interval for the hazard ratio**	[0.17, 1.94]	--

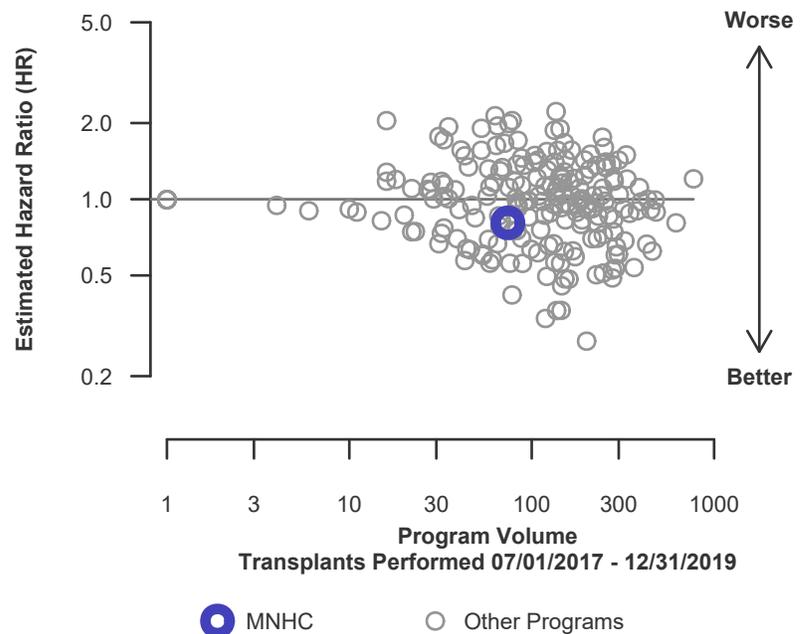
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.17, 1.94], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 19% lower risk of patient death compared to an average program, but MNHC's performance could plausibly range from 83% reduced risk up to 94% 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

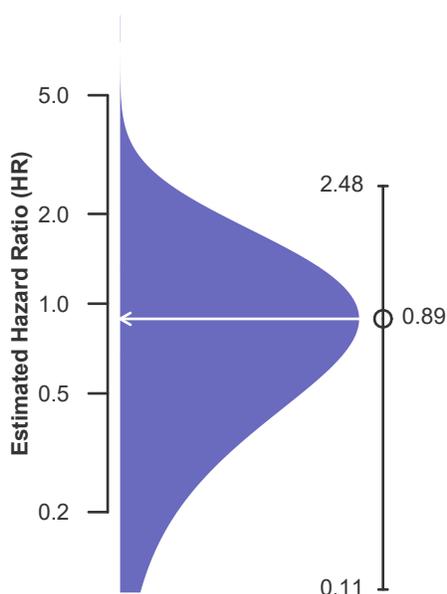
**Table C12L. Adult (18+) 1-year patient survival (living donor graft recipients)  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded**

	MNHC	U.S.
Number of transplants evaluated	27	14,136
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.01%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	98.93%	--
Number of observed deaths during the first year after transplant	0	125
Number of expected deaths during the first year after transplant	0.25	--
Estimated hazard ratio*	0.89	--
95% credible interval for the hazard ratio**	[0.11, 2.48]	--

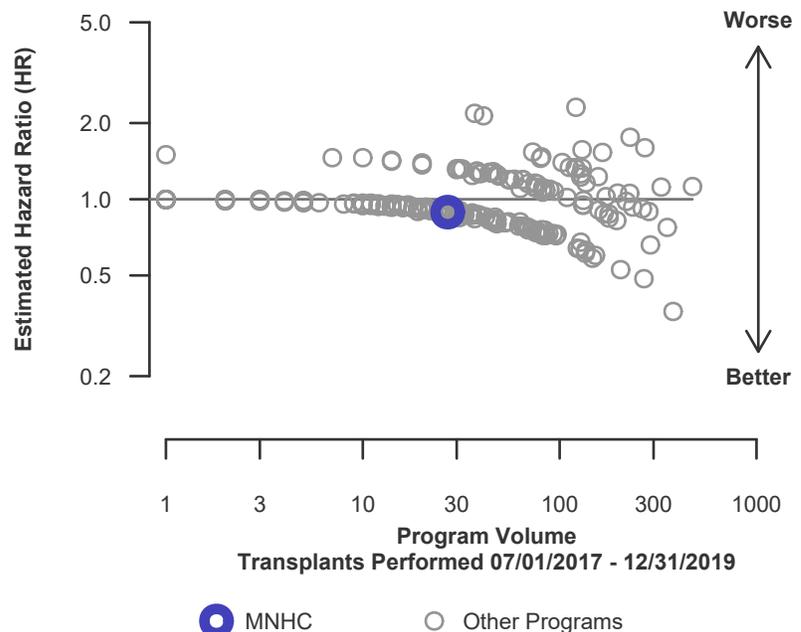
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.11, 2.48], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 11% lower risk of patient death compared to an average program, but MNHC's performance could plausibly range from 89% reduced risk up to 148% 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

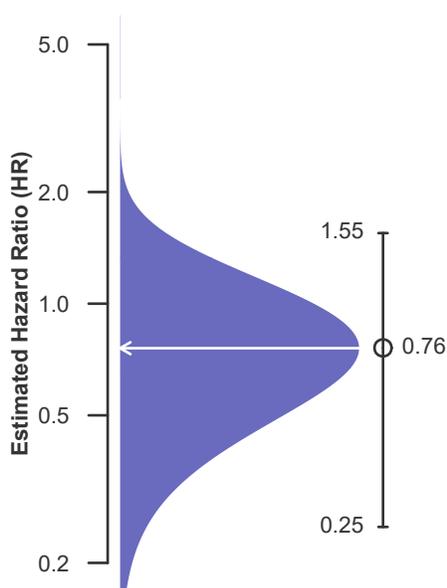
**Table C13. Adult (18+) 3-year patient survival**  
Single organ transplants performed between 01/01/2015 and 06/30/2017  
Retransplants excluded

	MNHC	U.S.
Number of transplants evaluated	110	36,746
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	97.27%	94.00%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	95.60%	--
Number of observed deaths during the first 3 years after transplant	3	2,189
Number of expected deaths during the first 3 years after transplant	4.59	--
Estimated hazard ratio*	0.76	--
95% credible interval for the hazard ratio**	[0.25, 1.55]	--

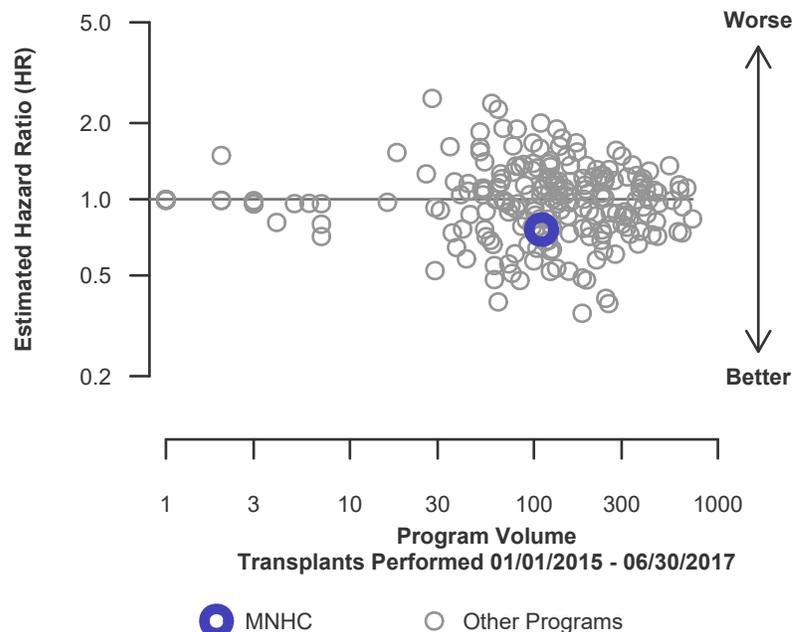
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

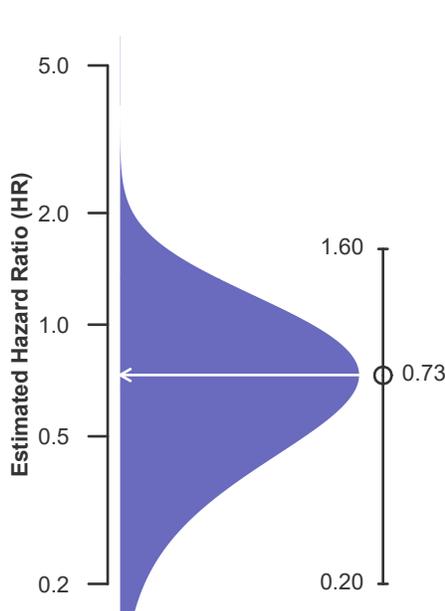
**Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients)**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Retransplants excluded**

	MNHC	U.S.
Number of transplants evaluated	70	24,671
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	97.14%	92.54%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.79%	--
Number of observed deaths during the first 3 years after transplant	2	1,829
Number of expected deaths during the first 3 years after transplant	3.47	--
Estimated hazard ratio*	0.73	--
95% credible interval for the hazard ratio**	[0.20, 1.60]	--

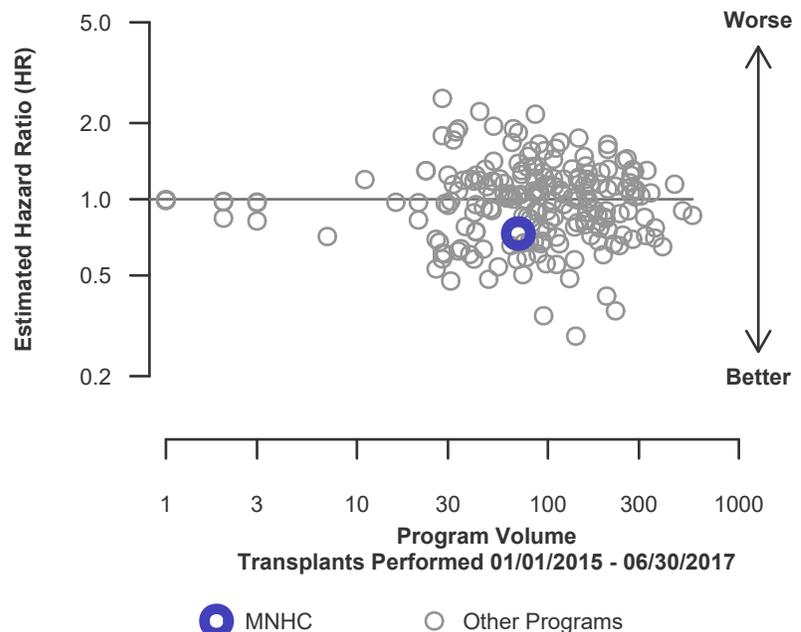
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

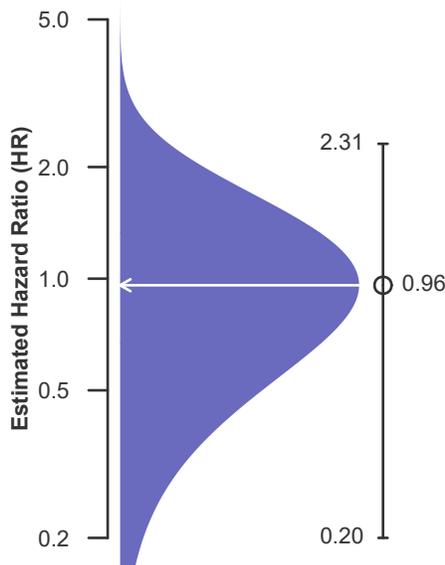
**Table C13L. Adult (18+) 3-year patient survival (living donor graft recipients)  
Single organ transplants performed between 01/01/2015 and 06/30/2017  
Retransplants excluded**

	MNHC	U.S.
Number of transplants evaluated	40	12,075
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	97.50%	96.99%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	97.02%	--
Number of observed deaths during the first 3 years after transplant	1	360
Number of expected deaths during the first 3 years after transplant	1.12	--
Estimated hazard ratio*	0.96	--
95% credible interval for the hazard ratio**	[0.20, 2.31]	--

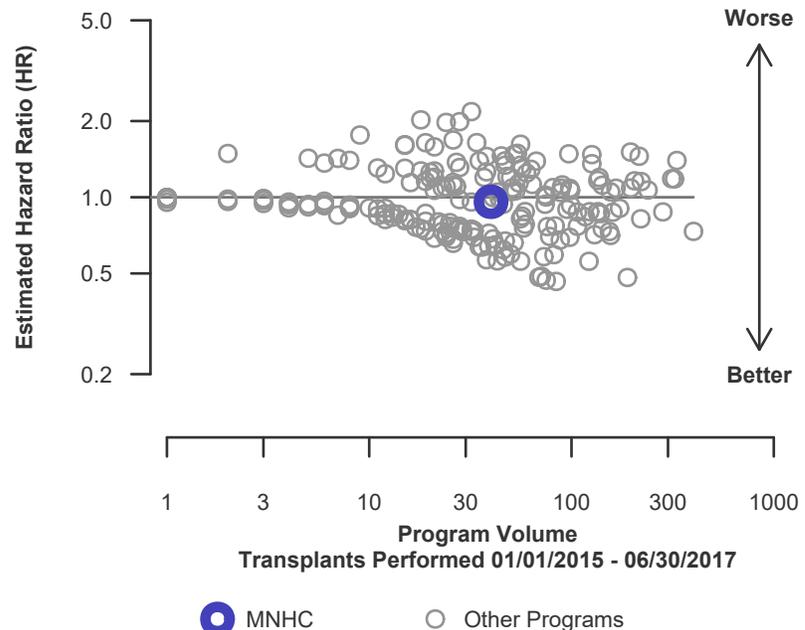
\* The hazard ratio provides an estimate of how Hennepin County Medical Center (MNHC)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 MNHC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.20, 2.31], indicates the location of MNHC's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but MNHC's performance could plausibly range from 80% reduced risk up to 131% 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 07/01/2017 and 12/31/2019  
Retransplants excluded

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C14L. Pediatric (<18) 1-month patient survival (living donor graft recipients)  
Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019  
Retransplants excluded

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019

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

This center did not perform any  
transplants relevant to  
this figure during  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Retransplants excluded**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

**Table C15L. Pediatric (<18) 1-year patient survival (living donor graft recipients)**  
**Single organ transplants performed between 07/01/2017 and 12/31/2019**  
**Retransplants excluded**

This center did not perform any  
transplants relevant to  
this table during  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019

**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  
07/01/2017-12/31/2019



## C. Transplant Information

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

Single organ transplants performed between 01/01/2015 and 06/30/2017  
Retransplants excluded

This center did not perform any  
transplants relevant to  
this table during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017



## C. Transplant Information

**Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)**  
**Single organ transplants performed between 01/01/2015 and 06/30/2017**  
**Retransplants excluded**

This center did not perform any  
transplants relevant to  
this table during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017

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

This center did not perform any  
transplants relevant to  
this figure during  
01/01/2015-06/30/2017



## C. Transplant Information

**Table C16L. Pediatric (<18) 3-year patient survival (living donor graft recipients)**  
Single organ transplants performed between 01/01/2015 and 06/30/2017  
Retransplants excluded

This center did not perform any  
transplants relevant to  
this table during  
01/01/2015-06/30/2017

**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  
01/01/2015-06/30/2017

**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  
01/01/2015-06/30/2017



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## C. Transplant Information

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**Table C17. Multi-organ transplant graft survival: 07/01/2017 - 12/31/2019**

### Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

### Pediatric (<18) Transplants

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

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**Table C18. Multi-organ transplant patient survival: 07/01/2017 - 12/31/2019**

### Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

### Pediatric (<18) Transplants

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



## D. Living Donor Information

**Table D1. Living donor summary: 07/01/2017 - 06/30/2020**

Living Donor Follow-Up	This Center			United States		
	07/2017-06/2018	07/2018-06/2019	07/2019-12/2019	07/2017-06/2018	07/2018-06/2019	07/2019-12/2019
<b>Number of Living Donors</b>	11	15	7	6,151	6,685	3,483
<b>6-Month Follow-Up</b>						
Donors due for follow-up	11	15	7	6,150	6,682	3,468
Timely clinical data	8 72.7%	10 66.7%	1 14.3%	5,395 87.7%	5,832 87.3%	2,529 72.9%
Timely lab data	10 90.9%	11 73.3%	1 14.3%	5,213 84.8%	5,629 84.2%	2,252 64.9%
<b>12-Month Follow-Up</b>						
Donors due for follow-up	11	15		6,148	6,681	
Timely clinical data	7 63.6%	7 46.7%		5,095 82.9%	5,075 76.0%	
Timely lab data	8 72.7%	7 46.7%		4,818 78.4%	4,562 68.3%	
<b>24-Month Follow-Up</b>						
Donors due for follow-up	11			6,147		
Timely clinical data	4 36.4%			4,134 67.3%		
Timely lab data	5 45.5%			3,575 58.2%		

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