

SCIENTIFIC REGISTRY OF Center Code: MNSM TRANSPLANT RECIPIENTS

Saint Marys Hospital (Mayo Clinic)

Transplant Program (Organ): Heart-Lung Release Date: January 7, 2020 Based on Data Available: October 31, 2019

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User Guide

This report contains a wide range of useful information about the heart-lung transplant program at Saint Marys Hospital (Mayo Clinic) (MNSM). The report has three main sections:

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

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

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

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

Table B4 shows how many candidates were removed from the waiting list because they received a transplant. The program's transplant rate is calculated as the number of candidates who received a transplant divided by the person-years observed at the program (person-years is a combination of how many candidates were on the waiting list along with how long each candidate was followed since some candidates are not on the waiting list for the entire year). The transplant rate and comparisons to what would be expected at this program are presented in Figures B1 and B2. Figure B1 shows the transplant rate compared to what was expected at this program. The expected transplant rate is an estimate of what we would expect at this program if it were performing transplants at rates similar to other programs in the US with similar candidates on their waiting lists. The expected rate is only an estimate, and is made with a certain level of uncertainty. This uncertainty is shown in Figure B2. Figure B2 displays the ratio of the observed to the expected transplant rate. A ratio of 1 indicates that the observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed deceased donor transplant rate at this program was 31.0 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. 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 these tables and figures is to describe risk of death once candidates are listed rather than while they are listed. 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.

Table B6 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 B7 and B8 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 B7 and B8 presents the percent of candidates who received a deceased donor transplant by each time point. Table B9 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2013 and 12/31/2018. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 2.2 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2019 to calculate a particular percentile of transplant times.

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



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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.

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



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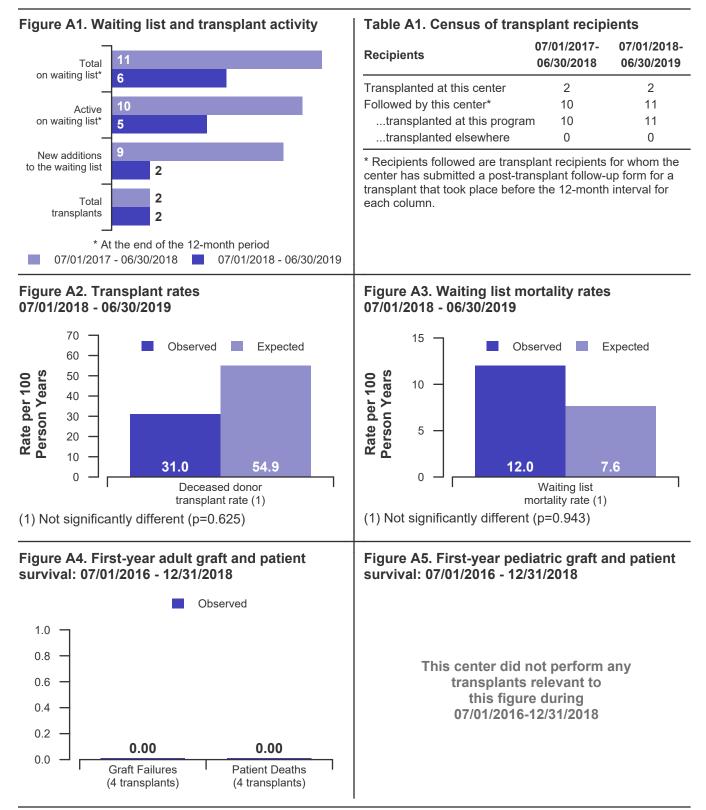
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A. Program Summary



The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA).



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B. Waiting List Information

Table B1. Waiting list activity summary: 07/01/2017 - 06/30/2019

		ts for enter	Activity for 07/01/2018 to 06/30/2019 as percent of registrants on waiting lis on 07/01/2018			
Waiting List Registrations	07/01/2017- 06/30/2018	07/01/2018- 06/30/2019	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	5	11	100.0	100.0	100.0	
New listings at this center	9	2	18.2	27.3	125.0	
Removals						
Transferred to another center	0	2	18.2	18.2	6.2	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	2	2	18.2	18.2	79.2	
Died	1	0	0.0	0.0	10.4	
Transplanted at another center	0	0	0.0	0.0	0.0	
Deteriorated	0	0	0.0	0.0	14.6	
Recovered	0	0	0.0	0.0	4.2	
Other reasons	0	3	27.3	27.3	18.8	
On waiting list at end of period	11	6	54.5	63.6	91.7	

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



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B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2018 and 06/30/2019

Demographic Characteristic		ting List Regis 018 to 06/30/20		All Waiting List Registrations on 06/30/2019 (%)			
	This Center (N=2)	OPTN Region (N=3)	U.S. (N=60)	This Center (N=6)	OPTN Region (N=7)	U.S. (N=44)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	100.0	100.0	48.3	66.7	71.4	50.0	
African-American	0.0	0.0	23.3	16.7	14.3	15.9	
Hispanic/Latino	0.0	0.0	16.7	16.7	14.3	27.3	
Asian	0.0	0.0	11.7	0.0	0.0	6.8	
Other	0.0	0.0	0.0	0.0	0.0	0.0	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	0.0	1.7	0.0	0.0	2.3	
2-11 years	0.0	0.0	6.7	0.0	0.0	4.5	
12-17 years	0.0	0.0	5.0	0.0	0.0	2.3	
18-34 years	50.0	33.3	20.0	33.3	28.6	29.5	
35-49 years	50.0	33.3	35.0	66.7	57.1	34.1	
50-64 years	0.0	33.3	30.0	0.0	14.3	25.0	
65-69 years	0.0	0.0	1.7	0.0	0.0	2.3	
70+ years	0.0	0.0	0.0	0.0	0.0	0.0	
Gender (%)							
Male	100.0	66.7	40.0	33.3	28.6	40.9	
Female	0.0	33.3	60.0	66.7	71.4	59.1	

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



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B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 07/01/2018 and 06/30/2019

Medical Characteristic	07/01/20	ting List Regis	019 (%)	All Waiting List Registrations on 06/30/2019 (%)			
	This Center (N=2)	OPTN Region (N=3)	U.S. (N=60)	(N=6)	OPTN Region (N=7)	U.S. (N=44)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	100.0	100.0	51.7	33.3	42.9	52.3	
A	0.0	0.0	33.3	16.7	14.3	31.8	
В	0.0	0.0	10.0	50.0	42.9	13.6	
AB	0.0	0.0	5.0	0.0	0.0	2.3	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	0.0	0.0	1.7	0.0	0.0	4.5	
No	100.0	100.0	98.3	100.0	100.0	95.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Congenital Disease	0.0	0.0	28.3	33.3	28.6	47.7	
Retransplant/Graft Failure	0.0	0.0	1.7	0.0	0.0	2.3	
Idiopathic Pulmonary Arterial Hypertension	0.0	0.0	0.0	0.0	0.0	0.0	
Cystic Fibrosis	0.0	0.0	0.0	0.0	0.0	0.0	
Idiopathic Pulmonary Fibrosis	0.0	0.0	0.0	0.0	0.0	0.0	
Emphysema/COPD	0.0	0.0	0.0	0.0	0.0	0.0	
Other	100.0	100.0	70.0	66.7	71.4	50.0	
Missing	0.0	0.0	0.0	0.0	0.0	0.0	



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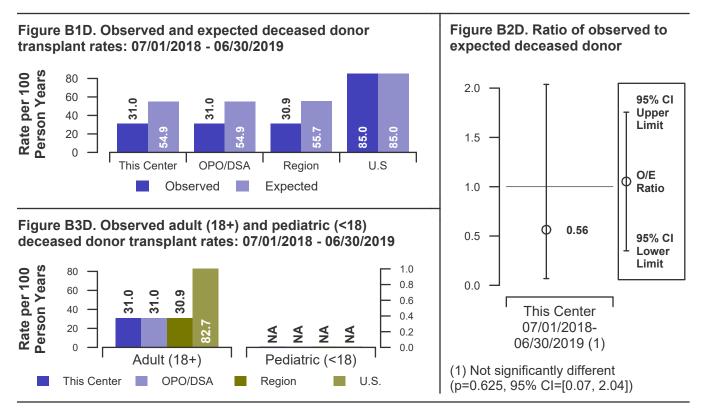
B. Waiting List Information

Table B4D. Deceased donor transplant rates: 07/01/2018 - 06/30/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	11	11	11	48
Person Years**	6.5	6.5	6.5	44.7
Removals for Transplant	2	2	2	38
Adult (18+) Candidates				
Count on waiting list at start*	11	11	11	47
Person Years**	6.5	6.5	6.5	42.3
Removals for transpant	2	2	2	35
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

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

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



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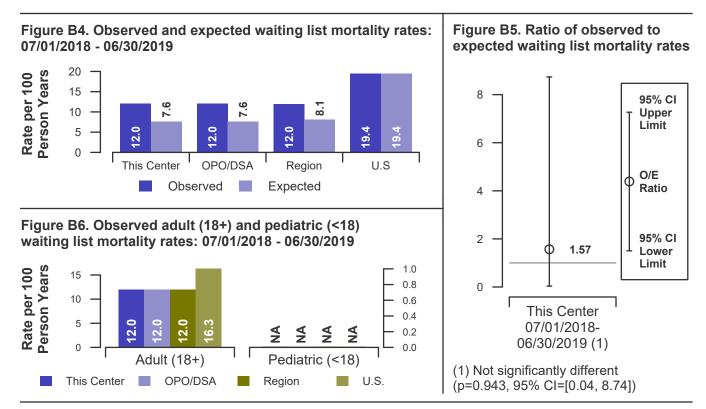
B. Waiting List Information

Table B5. Waiting list mortality rates: 07/01/2018 - 06/30/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	11	11	11	48
Person Years**	8.3	8.3	8.4	51.5
Number of deaths	1	1	1	10
Adult (18+) Candidates				
Count on waiting list at start*	11	11	11	47
Person Years**	8.3	8.3	8.4	49.2
Number of deaths	1	1	1	8
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Number of deaths				

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

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



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B. Waiting List Information

Table B6. Waiting list candidate status after listingCandidates registered on waiting list between 01/01/2017 and 12/31/2017

Waiting list status (survival status)		Center (I Is Since L			J.S. (N=47 ns Since L	
	6	12	18	6	12	18
Alive on waiting list (%)	60.0	0.0	0.0	29.8	10.6	10.6
Died on the waiting list without transplant (%)	20.0	20.0	20.0	17.0	17.0	17.0
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	10.6	10.6	10.6
Condition improved (status unknown)	0.0	0.0	0.0	2.1	2.1	2.1
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	40.0	40.0	0.0	4.3	4.3
Transplant (living or deceased donor) (%):						
Functioning (alive)	20.0	20.0	0.0	36.2	44.7	23.4
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	4.3	6.4	10.6
Status Yet Unknown*	0.0	0.0	20.0	0.0	2.1	19.1
Lost or Transferred (status unknown) (%)	0.0	20.0	20.0	0.0	2.1	2.1
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	20.0	20.0	20.0	21.3	23.4	27.7
Total % known died or removed as unstable	20.0	20.0	20.0	31.9	34.0	38.3
Total % removed for transplant	20.0	20.0	20.0	40.4	53.2	53.2
Total % with known functioning transplant (alive)	20.0	20.0	0.0	36.2	44.7	23.4

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



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B. Waiting List Information

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Table B7. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2013 and 06/30/2016

Characteristic		Percent transplanted at time periods since listing This Center United States									
onaracteristic	Ν				3 years	Ν				3 years	
All	16	6.2	18.8	25.0	25.0	142	9.9	34.5	37.3	37.3	
Ethnicity/Race*											
White	14	7.1	21.4	28.6	28.6	86	11.6	36.0	38.4	38.4	
African-American	2	0.0	0.0	0.0	0.0	27	0.0	22.2	25.9	25.9	
Hispanic/Latino	0					20	15.0	40.0	45.0	45.0	
Asian	0					9	11.1	44.4	44.4	44.4	
Other	0					0					
Unknown	0					0					
Age											
<2 years	0					5	0.0	0.0	0.0	0.0	
2-11 years	0					5	0.0	40.0	40.0	40.0	
12-17 years	2	50.0	50.0	50.0	50.0	12	16.7	58.3	58.3	58.3	
18-34 years	5	0.0	0.0	20.0	20.0	32	12.5	43.8	50.0	50.0	
35-49 years	3	0.0	0.0	0.0	0.0	39	7.7	28.2	28.2	28.2	
50-64 years	6	0.0	33.3	33.3	33.3	45	8.9	31.1	35.6	35.6	
65-69 years	0					4	25.0	25.0	25.0	25.0	
70+ years	0					0					
Gender											
Male	4	0.0	0.0	0.0	0.0	63	6.3	30.2	33.3	33.3	
Female	12	8.3	25.0	33.3	33.3	79	12.7	38.0	40.5	40.5	

* 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%.



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B. Waiting List Information

 Table B8. Percent of candidates with deceased donor transplants: medical characteristics

 Candidates registered on the waiting list between 07/01/2013 and 06/30/2016

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Characteristic	Percent transplanted at time periods since listing This Center United States										
onaracteristic	N 30 day 1 year 2 years 3 years N					Ν				3 years	
All	16	6.2	18.8	25.0	25.0	142	9.9	34.5	37.3	37.3	
Blood Type											
0	4	0.0	0.0	0.0	0.0	68	4.4	22.1	23.5	23.5	
A	7	14.3	42.9	42.9	42.9	46	19.6	54.3	56.5	56.5	
В	4	0.0	0.0	0.0	0.0	24	8.3	37.5	41.7	41.7	
AB	1	0.0	0.0	100.0	100.0	4	0.0	0.0	25.0	25.0	
Previous Transplant											
Yes	0					6	16.7	33.3	33.3	33.3	
No	16	6.2	18.8	25.0	25.0	136	9.6	34.6	37.5	37.5	
Primary Disease											
Congenital Disease	0					0					
Retransplant/Graft Failure	0					4	25.0	50.0	50.0	50.0	
Idiopathic Pulmonary Arterial Hypertension	0					0					
Cystic Fibrosis	0					0					
Idiopathic Pulmonary Fibrosis	0					0					
Alpha-1-Antitrypsin Deficiency	0					0					
Emphysema/COPD	0					0					
Other	16	6.2	18.8	25.0	25.0	138	9.4	34.1	37.0	37.0	
Missing	0					0					



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B. Waiting List Information

Table B9. Time to transplant for waiting list candidates*Candidates registered on the waiting list between 07/01/2013 and 12/31/2018

	Months to Transplant**							
Percentile	Center	OPO/DSA	Region	U.S.				
5th	2.2	2.2	2.2	0.5				
10th	4.6	4.6	4.6	0.9				
25th	12.9	12.9	13.7	3.7				
50th (median time to transplant)	Not Observed	Not Observed	Not Observed	Not Observed				
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 06/30/2019. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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TRANSPLANT

RECIPIENTS

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2018 and 06/30/2019

	Percentage in each category					
Characteristic	Center (N=2)	Region (N=2)	U.S. (N=38)			
Ethnicity/Race (%)*						
White	100.0	100.0	52.6			
African-American	0.0	0.0	28.9			
Hispanic/Latino	0.0	0.0	10.5			
Asian	0.0	0.0	7.9			
Other	0.0	0.0	0.0			
Unknown	0.0	0.0	0.0			
Age (%)						
<2 years	0.0	0.0	0.0			
2-11 years	0.0	0.0	2.6			
12-17	0.0	0.0	5.3			
18-34	50.0	50.0	18.4			
35-49 years	50.0	50.0	36.8			
50-64 years	0.0	0.0	31.6			
65-69 years	0.0	0.0	5.3			
70+ years	0.0	0.0	0.0			
Gender (%)						
Male	50.0	50.0	44.7			
Female	50.0	50.0	55.3			

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



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Table C2D. Deceased donor transplant recipient medical characteristicsPatients transplanted between 07/01/2018 and 06/30/2019

	Percei	Percentage in each category					
Characteristic	Center (N=2)	Region (N=2)	U.S. (N=38)				
Blood Type (%)							
0	50.0	50.0	42.1				
A	0.0	0.0	31.6				
В	50.0	50.0	15.8				
AB	0.0	0.0	10.5				
Previous Transplant (%)							
Yes	0.0	0.0	0.0				
No	100.0	100.0	100.0				
Body Mass Index (%)							
0-20	0.0	0.0	34.2				
21-25	100.0	100.0	31.6				
26-30	0.0	0.0	26.3				
31-35	0.0	0.0	7.9				
36-40	0.0	0.0	0.0				
41+	0.0	0.0	0.0				
Unknown	0.0	0.0	0.0				
Primary Disease (%)							
Congenital Disease	0.0	0.0	13.2				
Retransplant/Graft Failure	0.0	0.0	0.0				
Idiopathic Pulmonary Arterial Hypertension	50.0	50.0	44.7				
Cystic Fibrosis	0.0	0.0	0.0				
Idiopathic Pulmonary Fibrosis	50.0	50.0	21.1				
Emphysema/COPD	0.0	0.0	2.6				
Other	0.0	0.0	18.4				
Missing	0.0	0.0	0.0				
Recipient Medical Condition at Transplant (%)							
Not Hospitalized	0.0	0.0	36.8				
Hospitalized	0.0	0.0	13.2				
ICU	100.0	100.0	50.0				
Unknown	0.0	0.0	0.0				



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Table C3D. Deceased donor characteristics Transplants performed between 07/01/2018 and 06/30/2019

	Percentage in each category		
Donor Characteristic	Center (N=2)	Region (N=2)	U.S. (N=38)
Cause of Death (%)			
Deceased: Stroke	0.0	0.0	23.7
Deceased: MVA	0.0	0.0	18.4
Deceased: Other	100.0	100.0	57.9
Ethnicity/Race (%)*			
White	100.0	100.0	65.8
African-American	0.0	0.0	10.5
Hispanic/Latino	0.0	0.0	13.2
Asian	0.0	0.0	7.9
Other	0.0	0.0	2.6
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	2.6
2-11 years	0.0	0.0	2.6
12-17	0.0	0.0	7.9
18-34	100.0	100.0	50.0
35-49 years	0.0	0.0	26.3
50-64 years	0.0	0.0	10.5
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	50.0	50.0	57.9
Female	50.0	50.0	42.1
Blood Type (%)			
0	100.0	100.0	57.9
A	0.0	0.0	26.3
В	0.0	0.0	10.5
AB	0.0	0.0	5.3
Unknown	0.0	0.0	0.0

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



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Table C4D. Deceased donor transplant characteristics Transplants performed between 07/01/2018 and 06/30/2019

	Percentage in each category		
Transplant Characteristic	Center (N=2)	Region (N=2)	U.S. (N=38)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	0.0	0.0
Deceased: 91-180 min	50.0	50.0	27.8
Deceased: 181-270 min	50.0	50.0	55.6
Deceased: 271-360 min	0.0	0.0	16.7
Deceased: 361+ min	0.0	0.0	0.0
Not Reported	0.0	0.0	0.0
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min			0.0
Deceased: 91-180 min			5.0
Deceased: 181-270 min			60.0
Deceased: 271-360 min			35.0
Deceased: 361+ min			0.0
Not Reported			0.0
Sharing (%)			
Local	100.0	100.0	47.4
Shared	0.0	0.0	52.6
Median Time in Hospital After Transplant*	25.0 Days	25.0 Days	30.5 Days

* Heart-lung transplants only. Other multiple organ transplants are excluded from this statistic.



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Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures MNGM

Deaths and retransplants are considered graft failures	MNSM	U.S.
Number of transplants evaluated	4	62
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	95.16%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)*	%	
Number of observed graft failures (including deaths) during the first month after transplant	0	3
Number of expected graft failures (including deaths) during the first month after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the bazard ratio, and the credible interval are	e not calculated for adult (18	+) recipients

The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

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
Expected graft failures	Expected graft failures
were not calculated	were not calculated



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Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures MNSM

Deaths and retransplants are considered graft failures	MNSM	U.S.
Number of transplants evaluated	4	62
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	88.02%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)*	%	
Number of observed graft failures (including deaths) during the first year after transplant	0	7
Number of expected graft failures (including deaths) during the first year after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the hazard ratio, and the credible interval ar	e not calculated for adult (18	(+) recipients

The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

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
Expected graft failures were not calculated	Expected graft failures were not calculated



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Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft Simultaneous heart-lung transplants performed between 01/01/2014 and 06/30/2016 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	MNSM	U.S.
Number of transplants evaluated	1	33
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	66.53%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)*	%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	11
Number of expected graft failures (including deaths) during the first 3 years after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	
* The expected number of graft failures, the bazard ratio, and the credible interval are	e not calculated for adult (18	(+) recipients

* The expected number of graft failures, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

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
Expected graft failures were not calculated	Expected graft failures were not calculated



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Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018Deaths and retransplants are considered graft failures

Figure C7D. Pediatric (<18) 1-month deceased donor graft failure HR estimate	Figure C8D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison
Pediatric data is not reported	Pediatric data is not reported



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Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018Deaths and retransplants are considered graft failures

Figure C9D. Pediatric (<18) 1-year deceased donor graft failure HR estimate	Figure C10D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison
Pediatric data is not reported	Pediatric data is not reported



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Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Simultaneous heart-lung transplants performed between 01/01/2014 and 06/30/2016Deaths and retransplants are considered graft failures

Figure C11D. Pediatric (<18) 3-year deceased donor graft failure HR estimate	Figure C12D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison
Pediatric data is not reported	Pediatric data is not reported



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Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

Retransplants excluded	MNSM	U.S.
Number of transplants evaluated	4	62
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	95.16%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)*	%	
Number of observed deaths during the first month after transplant	0	3
Number of expected deaths during the first month after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	

* The expected number of patient deaths, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

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)
Expected patient deaths	Expected patient deaths
were not calculated	were not calculated



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Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

Retransplants excluded	MNSM	U.S.
Number of transplants evaluated	4	62
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	88.10%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)*	%	
Number of observed deaths during the first year after transplant	0	7
Number of expected deaths during the first year after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	

* The expected number of patient deaths, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

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)
Expected patient deaths	Expected patient deaths
were not calculated	were not calculated



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Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Simultaneous heart-lung transplants performed between 01/01/2014 and 06/30/2016 Retransplants excluded

Retransplants excluded	MNSM	U.S.
Number of transplants evaluated	1	32
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	68.75%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)*	%	
Number of observed deaths during the first 3 years after transplant	0	10
Number of expected deaths during the first 3 years after transplant*		
Estimated hazard ratio*		
95% credible interval for the hazard ratio*	[,]	

* The expected number of patient deaths, the hazard ratio, and the credible interval are not calculated for adult (18+) recipients.

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)
Expected patient deaths	Expected patient deaths
were not calculated	were not calculated



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Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th>Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018Retransplants excluded

Figure C19D. Pediatric (<18) 1-month patient death HR estimate (deceased donor grafts)	Figure C20D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)
Pediatric data is not reported	Pediatric data is not reported



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Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</th>Simultaneous heart-lung transplants performed between 07/01/2016 and 12/31/2018Retransplants excluded

Figure C21D. Pediatric (<18) 1-year patient death HR estimate (deceased donor grafts)	Figure C22D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)
Pediatric data is not reported	Pediatric data is not reported



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Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)</th>Simultaneous heart-lung transplants performed between 01/01/2014 and 06/30/2016Retransplants excluded

Figure C23D. Pediatric (<18) 3-year patient death HR estimate (deceased donor grafts)	Figure C24D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)
Pediatric data is not reported	Pediatric data is not reported