

REGISTRY OFCenter Code: MAUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: August 4, 2020RECIPIENTSBased on Data Available: May 31, 2020

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User Guide

This report contains a wide range of useful information about the liver transplant program at UMass Memorial Medical Center (MAUM). The report has three main sections:

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

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

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

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

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



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 20.5 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

The 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 01/01/2014 and 06/30/2019. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.4 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2019 to calculate a particular percentile of transplant times.

Table B11 contains a summary of the offer acceptance practices of the program. The offer acceptance ratio indicates whether the program is more or less likely to accept offers than the average program. If the offer acceptance ratio is greater than 1.0, then the program tends to accept more offers than average; if the offer acceptance ratio is less than 1.0, then the program tends to accept fewer offers than average. Figure B10 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B11 - B15 similarly show offer acceptance rates for subsets



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of offers.

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

Starting with Table C5, transplant outcomes are presented along with comparisons to what would be expected at this program and what happened in the nation as a whole. Tables C5-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.



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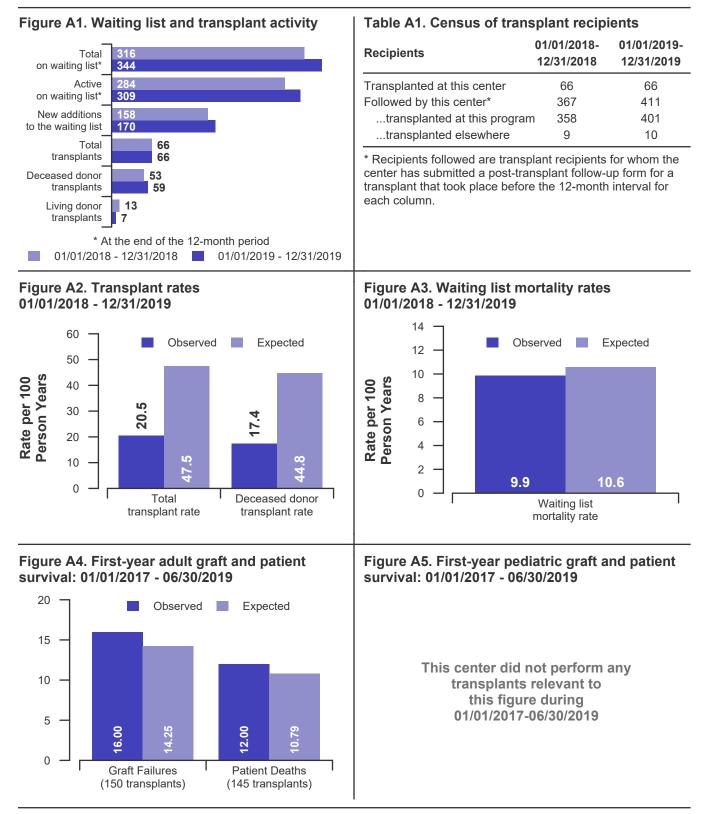
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A. Program Summary





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B. Waiting List Information

Table B1. Waiting list activity summary: 01/01/2018 - 12/31/2019

		ts for enter	Activity for 01/01/2019 to 12/31/2019 as percent of registrants on waiting lis on 01/01/2019			
Waiting List Registrations	01/01/2018- 12/31/2018	01/01/2019- 12/31/2019	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	278	316	100.0	100.0	100.0	
New listings at this center	158	170	53.8	76.0	98.7	
Removals						
Transferred to another center	1	1	0.3	0.3	1.2	
Received living donor transplant*	13	7	2.2	3.6	3.8	
Received deceased donor transplant*	53	59	18.7	31.3	61.4	
Died	18	34	10.8	10.0	8.9	
Transplanted at another center	0	1	0.3	1.2	2.8	
Deteriorated	12	14	4.4	6.7	8.8	
Recovered	3	5	1.6	3.3	7.2	
Other reasons	20	21	6.6	7.6	9.1	
On waiting list at end of period	316	344	108.9	112.0	95.5	

* 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 01/01/2019 and 12/31/2019

Demographic Characteristic		ting List Reg 019 to 12/31/		All Waiting List Registrations on 12/31/2019 (%)			
	This Center (N=170)	OPTN Regior (N=721)	n U.S. (N=13,463)	This Center (N=344)	OPTN Region (N=1,063)	U.S. (N=13,036)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	82.9	81.1	69.0	82.0	80.6	67.1	
African-American	1.8	3.2	7.6	2.6	3.6	7.4	
Hispanic/Latino	12.9	10.5	17.3	12.8	11.1	18.3	
Asian	2.4	4.2	4.4	2.6	3.7	5.5	
Other	0.0	1.0	1.7	0.0	1.0	1.6	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	1.1	2.4	0.0	0.7	1.2	
2-11 years	0.0	0.4	1.6	0.0	0.5	1.2	
12-17 years	0.0	1.0	1.1	0.0	1.1	1.1	
18-34 years	3.5	5.8	6.2	2.9	5.4	6.1	
35-49 years	21.8	17.1	17.7	26.7	19.5	18.3	
50-64 years	56.5	53.8	48.7	56.1	55.5	52.6	
65-69 years	10.0	16.0	17.2	11.6	15.0	15.9	
70+ years	8.2	4.9	5.2	2.6	2.4	3.7	
Gender (%)							
Male	70.0	66.7	61.7	61.0	63.2	60.4	
Female	30.0	33.3	38.3	39.0	36.8	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%.



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B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 01/01/2019 and 12/31/2019

Medical Characteristic	01/01/2	ting List Regi 019 to 12/31/2	019 (%)	All Waiting List Registrations on 12/31/2019 (%)			
	This Center (N=170)	OPTN Region (N=721)	U.S. (N=13,463)	This Center (N=344)	OPTN Region (N=1,063)	U.S. (N=13,036)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	47.1	44.4	47.0	48.0	47.0	49.2	
A	37.1	40.2	37.5	38.7	40.3	38.5	
В	10.6	12.3	11.9	11.3	10.8	10.2	
AB	5.3	3.1	3.7	2.0	1.9	2.0	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	4.7	3.7	4.7	2.0	2.4	3.3	
No	95.3	96.3	95.3	98.0	97.6	96.7	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	5.9	4.6	4.3	2.0	1.6	1.7	
Non-Cholestatic Cirrhosis	85.3	67.3	66.9	89.2	74.9	71.0	
Cholestatic Liver Disease/Cirrhosis	2.9	5.3	7.1	5.2	6.3	8.0	
Biliary Atresia	0.6	1.5	2.1	0.3	1.3	1.6	
Metabolic Diseases	1.8	2.2	2.4	0.3	1.5	1.6	
Malignant Neoplasms	1.2	16.6	11.8	0.3	11.4	10.5	
Other	2.4	2.5	5.3	2.6	3.0	5.4	
Missing	0.0	0.0	0.1	0.0	0.0	0.0	
Medical Urgency Status/MELD/PEL	.D at Listing	(%)*					
Status 1A	1.8	2.8	2.9	0.0	0.2	0.3	
Status 1B	0.0	0.0	0.3	0.0	0.0	0.0	
Status 2A	0.0	0.0	0.0	0.0	0.0	0.0	
Status 2B	0.0	0.0	0.0	0.3	0.1	0.1	
Status 3	0.0	0.0	0.0	0.0	0.2	0.5	
MELD 6-10	34.1	23.9	18.1	52.3	34.2	29.4	
MELD 11-14	21.8	20.8	18.7	26.5	28.0	29.0	
MELD 15-20	18.8	22.1	23.1	14.5	23.1	24.5	
MELD 21-30	11.2	13.7	18.3	2.9	6.8	8.8	
MELD 31-40	8.8	8.5	11.3	1.2	0.8	0.9	
PELD less than or equal to 10	0.0	0.3	1.6	0.0	0.8	1.7	
PELD 11-14	0.0	0.0	0.3	0.0	0.0	0.1	
PELD 15-20	0.0	0.6	0.5	0.0	0.2	0.2	
PELD 21-30	0.0	0.1	0.4	0.0	0.1	0.1	
PELD 31 or greater	0.0	0.0	0.1	0.0	0.0	0.0	
Temporarily Inactive	3.5	7.4	4.3	2.3	5.5	4.4	

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



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B. Waiting List Information

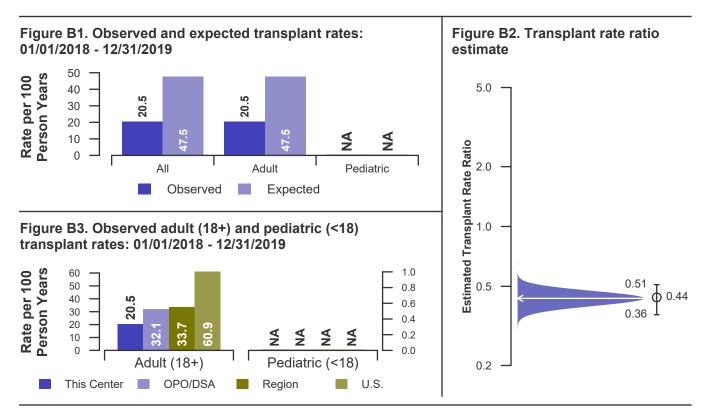
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Table B4. Transplant rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	278	879	908	14,161
Person Years**	644.0	1,877.9	1,946.6	27,294.5
Removals for Transplant	132	616	668	17,146
Adult (18+) Candidates				
Count on waiting list at start*	278	854	883	13,614
Person Years**	644.0	1,824.7	1,893.4	26,280.5
Removals for transpant	132	586	638	16,003
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

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

** Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





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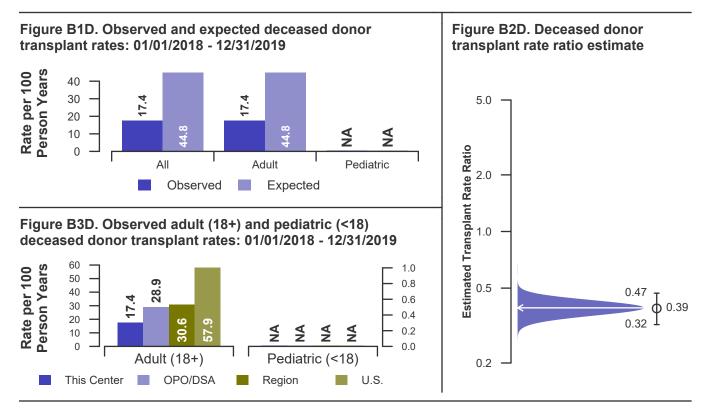
RECIPIENTS

Table B4D. Deceased donor transplant rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	278	879	908	14,161
Person Years**	644.0	1,877.9	1,946.6	27,294.5
Removals for Transplant	112	546	598	16,222
Adult (18+) Candidates				
Count on waiting list at start*	278	854	883	13,614
Person Years**	644.0	1,824.7	1,893.4	26,280.5
Removals for transpant	112	528	580	15,223
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Removals for transplant				

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

** Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





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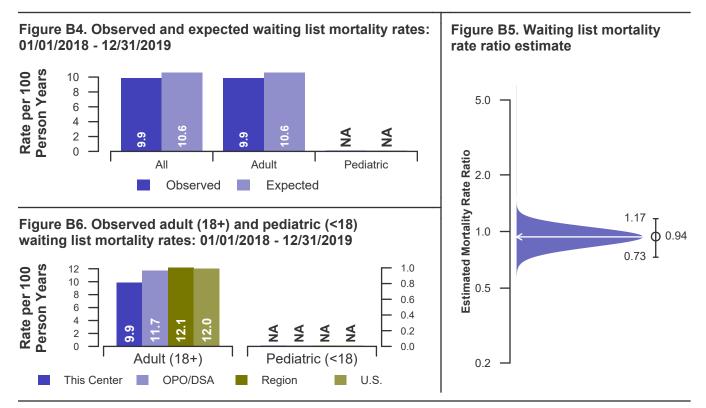
RECIPIENTS

Table B5. Waiting list mortality rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	278	879	908	14,161
Person Years**	688.6	2,084.3	2,162.9	31,578.0
Number of deaths	68	239	257	3,724
Adult (18+) Candidates				
Count on waiting list at start*	278	854	883	13,614
Person Years**	688.6	2,030.4	2,109.0	30,466.5
Number of deaths	68	238	256	3,661
Pediatric (<18) Candidates				
Count on waiting list at start*				
Person Years**				
Number of deaths				

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

** Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or December 31.





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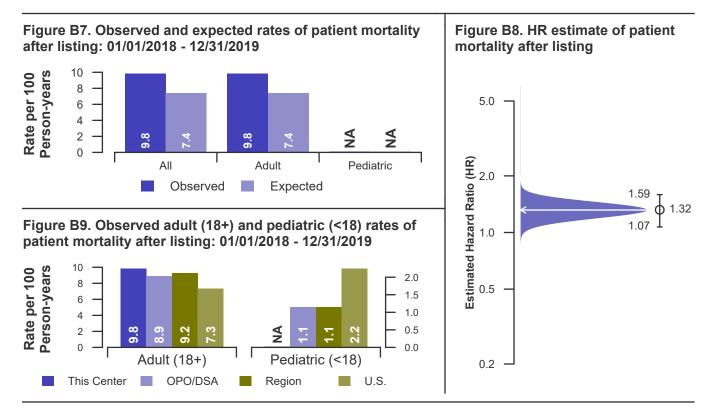
B. Waiting List Information

Table B6. Rates of patient mortality after listing: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	775	3,326	3,535	72,006
Person-years*	1,009.9	4,387.2	4,651.4	96,169.6
Number of Deaths	99	369	409	6,708
Adult (18+) Patients				
Count at risk during the evaluation period	775	3,152	3,361	67,563
Person-years*	1,009.9	4,125.5	4,389.7	89,913.6
Number of Deaths	99	366	406	6,568
Pediatric (<18) Patients				
Count at risk during the evaluation period	0	174	174	4,443
Person-years*	0.0	261.7	261.7	6,256.0
Number of Deaths	0	3	3	140

* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2018, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 2019.

** 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.





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B. Waiting List Information

Table B7. Waiting list candidate status after listingCandidates registered on waiting list between 07/01/2017 and 06/30/2018

Waiting list status (survival status)		Center (N ns Since L 12	,	U.S. (N=13,030) Months Since Listing 6 12 18		
Alive on waiting list (%)	67.8	51.7	45.0	48.0	27.5	18.1
Died on the waiting list without transplant (%)	6.7	8.7	10.7	4.6	5.9	6.8
Removed without transplant (%):						
Condition worsened (status unknown)	1.3	1.3	1.3	4.5	6.6	7.6
Condition improved (status unknown)	1.3	2.0	2.7	1.2	2.1	2.9
Refused transplant (status unknown)	0.7	1.3	1.3	0.3	0.5	0.6
Other	1.3	2.0	2.0	1.8	3.3	4.4
Transplant (living donor from waiting list only) (%)):					
Functioning (alive)	4.0	6.0	4.7	1.8	2.5	1.8
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	0.7	0.0	0.0	0.1
Status Yet Unknown**	0.0	1.3	2.7	0.0	0.1	0.9
Transplant (deceased donor) (%):						
Functioning (alive)	15.4	21.5	18.1	33.9	43.7	36.6
Failed-Retransplanted (alive)	0.7	0.7	0.7	0.3	0.4	0.6
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.7	2.7	3.4	1.7	2.7	3.6
Status Yet Unknown*	0.0	0.7	6.7	1.7	4.2	15.3
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.5	0.6
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	7.4	11.4	14.8	6.3	8.7	10.5
Total % known died or removed as unstable	8.7	12.8	16.1	10.8	15.2	18.1
Total % removed for transplant	20.8	32.9	36.9	39.4	53.7	59.0
Total % with known functioning transplant (alive)	19.5	27.5	22.8	35.7	46.2	38.5

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



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B. Waiting List Information

Table B7S1. Medical urgency status 1 candidate status after listingCandidates registered on the waiting list between 07/01/2017 and 06/30/2018

Waiting list status (survival status)		s Center (I hs Since I 12		U.S. (N=432) Months Since listing 6 12 18		
Alive on waiting list (%)	33.3	0.0	0.0	4.6	2.1	1.4
Died on the waiting list without transplant (%)	0.0	0.0	0.0	7.2	7.2	7.2
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	6.0	6.0	6.0
Condition improved (status unknown)	33.3	66.7	66.7	18.5	20.6	21.3
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.2	0.2
Other	0.0	0.0	0.0	0.9	0.9	0.9
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	0.0	0.0	0.0	0.7	0.5	0.5
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.0	0.0	0.0
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.2	0.2
Transplant (deceased donor) (%):						
Functioning (alive)	33.3	33.3	0.0	55.3	51.4	42.8
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.7	0.7	0.9
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	4.6	5.6	6.2
Status Yet Unknown*	0.0	0.0	33.3	0.9	4.4	12.0
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.2	0.2
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	0.0	0.0	11.8	12.7	13.4
Total % known died or removed as unstable	0.0	0.0	0.0	17.8	18.8	19.4
Total % removed for transplant	33.3	33.3	33.3	62.3	62.7	62.7
Total % with known functioning transplant (alive)	33.3	33.3	0.0	56.0	51.9	43.3

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



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REGISTRY OFCenter Code: MAUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: August 4, 2020RECIPIENTSBased on Data Available: May 31, 2020

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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2014 and 12/31/2016

Characteristic	Percent transplanted at time periods since listing This Center United States						-			
	Ν			2 years	3 years	S N				3 years
All	368	10.1	33.7	42.4	43.8	36,338	18.2	46.3	54.2	56.0
Ethnicity/Race*										
White	316	9.5	33.9	43.4	44.9	24,918	18.1	47.3	54.7	56.4
African-American	7	28.6	42.9	57.1	57.1	3,461	21.5	50.7	58.5	60.3
Hispanic/Latino	34	11.8	32.4	32.4	32.4	5,678	17.2	41.4	49.8	51.9
Asian	11	9.1	27.3	36.4	36.4	1,738	16.5	40.7	52.6	54.9
Other	0					543	17.7	45.3	53.6	55.1
Unknown	0					0				
Age										
<2 years	0					882	24.0	68.8	73.9	75.2
2-11 years	0					724	24.2	67.8	73.9	75.3
12-17 years	0					450	21.3	53.8	64.2	65.8
18-34 years	15	20.0	26.7	33.3	33.3	2,023	26.7	48.4	54.3	56.7
35-49 years	70	18.6	35.7	41.4	41.4	5,644	24.7	48.2	54.0	55.8
50-64 years	215	8.8	33.0	42.3	43.7	20,312	16.4	44.7	53.2	55.2
65-69 years	49	4.1	32.7	40.8	44.9	5,176	14.1	43.1	52.1	53.6
70+ years	19	0.0	42.1	57.9	57.9	1,127	12.8	42.2	49.0	49.2
Gender										
Male	225	9.3	32.9	44.0	45.8	23,058	17.9	47.5	55.8	57.6
Female	143	11.2	35.0	39.9	40.6	13,280	18.8	44.3	51.3	53.2

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



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B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 01/01/2014 and 12/31/2016

Characteristic		Tł	nis Cent	er		time per	Un	ited Sta	tes	
	Ν	30 day	1 year	2 years	3 years	5 N	30 day	1 year	2 years	3 years
All	368	10.1	33.7	42.4	43.8	36,338	18.2	46.3	54.2	56.0
Blood Type						,				
0	166	7.8	28.3	36.1	38.0	16,983	17.9	44.5	52.4	54.3
A	154	13.0	36.4	46.8	47.4	13,256	16.8	44.6	53.0	54.6
В	32	6.2	37.5	46.9	50.0	4,713	19.9	52.2	59.3	61.2
AB	16	12.5	56.2	56.2	56.2	1,386	29.4	66.2	70.4	72.1
Previous Transplant										
Yes	21	19.0	52.4	57.1	57.1	2,014	28.2	50.3	55.4	56.8
No	347	9.5	32.6	41.5	42.9	34,324	17.6	46.1	54.1	55.9
Primary Disease										
Acute Hepatic Necrosis	4	75.0	75.0	75.0	75.0	1,437	47.2	55.0	57.8	58.7
Non-Cholestatic Cirrhosis	320	9.1	31.6	40.9	42.2	24,395	18.4	44.3	51.2	52.9
Cholestatic Liver	20	10.0	60.0	65.0	70.0	0 560	15.6	46.9	FF 1	E0 2
Disease/Cirrhosis	20	10.0	60.0	65.0	70.0	2,563	15.6	46.8	55.1	58.3
Biliary Atresia	3	0.0	33.3	66.7	66.7	736	16.4	63.6	72.3	73.8
Metabolic Diseases	2	50.0	50.0	50.0	50.0	905	20.6	60.8	67.7	69.3
Malignant Neoplasms	4	0.0	25.0	25.0	25.0	4,406	8.3	47.6	62.2	64.1
Other	15	13.3	33.3	33.3	33.3	1,881	20.4	48.4	56.8	59.0
Missing	0					15	13.3	13.3	13.3	13.3
Medical Urgency Status/MELD/	PELD	at Listin	g *							
Status 1	0					0				
Status 1A	2	50.0	50.0	50.0	50.0	1,171	60.3	61.2	61.2	61.2
Status 1B	0					146	42.5	82.9	82.9	82.9
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	117	0.9	12.8	23.1	24.8	7,193	2.9	35.8	50.1	52.6
MELD 11-14	95	2.1	24.2	37.9	40.0	6,776	3.3	31.0	41.8	44.6
MELD 15-20	65	0.0	43.1	53.8	55.4	8,297	8.4	41.5	49.8	52.4
MELD 21-30	54	24.1	63.0	63.0	63.0	6,204	27.3	58.3	61.2	61.9
MELD 31-40	34	58.8	67.6	67.6	67.6	4,062	67.3	73.7	73.8	73.8
PELD less than or equal to 10	0					691	10.4	64.8	73.4	75.4
PELD 11-14	0					104	19.2	74.0	81.7	82.7
PELD 15-20	0					178	13.5	72.5	78.1	79.8
PELD 21-30	0					158	21.5	72.2	77.2	77.2
PELD 31 or greater	0					72	59.7	80.6	80.6	81.9
Temporarily Inactive	1	0.0	0.0	0.0	0.0	1,286	7.7	34.7	44.4	45.4

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



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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*Candidates registered on the waiting list between 01/01/2014 and 06/30/2019

	Months to Transplant**				
Percentile	Center	OPO/DSA	Region	U.S.	
5th	0.4	0.3	0.3	0.1	
10th	1.2	0.9	0.8	0.3	
25th	7.5	6.0	5.7	1.8	
50th (median time to transplant)	Not Observed	28.2	24.1	10.1	
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 12/31/2019. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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B. Waiting List Information

RECIPIENTS

Table B11. Offer Acceptance Practices: 01/01/2019 - 12/31/2019

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	1,309	6,159	6,276	174,762
Number of Acceptances	59	258	278	7,490
Expected Acceptances	53.4	188.2	208.8	7,484.4
Offer Acceptance Ratio*	1.10	1.37	1.33	1.00
95% Credible Interval**	[0.84, 1.39]			
PHS increased infectious risk				
Number of Offers	270	1,279	1,328	34,414
Number of Acceptances	18	102	114	2,100
Expected Acceptances	19.6	71.4	81.0	2,098.7
Offer Acceptance Ratio*	0.93	1.42	1.40	1.00
95% Credible Interval**	[0.57, 1.38]			
DCD donor				
Number of Offers	0	1,817	1,826	52,630
Number of Acceptances	0	17	17	663
Expected Acceptances	0.0	14.5	17.3	674.7
Offer Acceptance Ratio*		1.15	0.99	0.98
95% Credible Interval**	[,]			
HCV+ donor				
Number of Offers	63	246	266	7,371
Number of Acceptances	3	24	26	457
Expected Acceptances	3.4	12.0	13.8	457.8
Offer Acceptance Ratio*	0.93	1.85	1.78	1.00
95% Credible Interval**	[0.30, 1.91]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	803	4,066	4,084	97,638
Number of Acceptances	14	34	34	633
Expected Acceptances	5.4	19.2	19.3	641.9
Offer Acceptance Ratio*	2.17	1.70	1.69	0.99
95% Credible Interval**	[1.24, 3.36]			
Donor more than 500 miles away				
Number of Offers	546	3,087	3,088	54,690
Number of Acceptances	9	15	15	746
Expected Acceptances	3.5	13.0	13.0	685.4
Offer Acceptance Ratio*	2.01	1.14	1.13	1.09
95% Credible Interval**	[1.00, 3.36]			

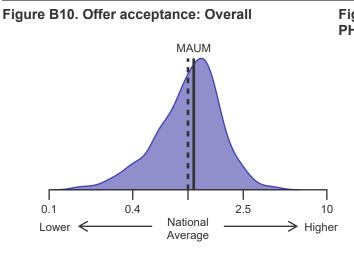
* The offer acceptance ratio estimates the relative offer acceptance practice of UMass Memorial Medical Center (MAUM) compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer acceptance practices the program is less likely to accept an offer compared to national 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, [0.84, 1.39], indicates the location of MAUM's true offer acceptance ratio with 95% probability. The best estimate is 10% more likely to accept an offer compared to national acceptance behavior, but MAUM's performance could plausibly range from 16% reduced acceptance up to 39% higher acceptance.



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B. Waiting List Information





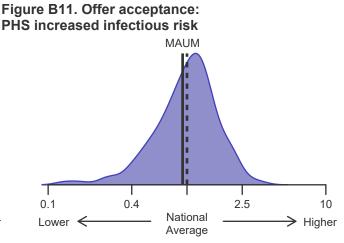
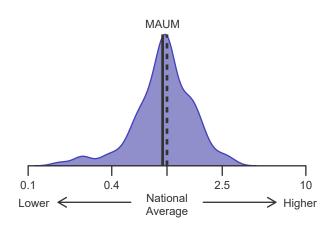


Figure B13. Offer acceptance: HCV+ Donor



This program received no offers.



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Average

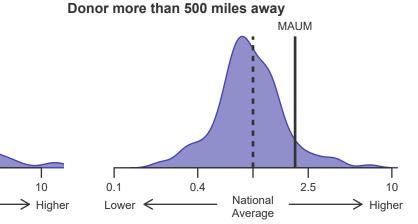
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C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristicsPatients transplanted between 01/01/2019 and 12/31/2019

	Perce	Percentage in each category		
Characteristic	Center (N=59)	Region (N=297)	U.S. (N=8,372)	
Ethnicity/Race (%)*				
White	83.1	78.8	69.0	
African-American	0.0	3.7	8.1	
Hispanic/Latino	13.6	11.4	16.7	
Asian	3.4	5.1	4.4	
Other	0.0	1.0	1.7	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.3	2.4	
2-11 years	0.0	0.7	2.3	
12-17	0.0	0.7	1.0	
18-34	1.7	5.4	6.1	
35-49 years	18.6	16.8	18.0	
50-64 years	55.9	56.2	48.5	
65-69 years	8.5	12.1	16.1	
70+ years	15.3	7.7	5.6	
Gender (%)				
Male	76.3	67.0	63.6	
Female	23.7	33.0	36.4	

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



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C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 01/01/2019 and 12/31/2019

	Percer	Percentage in each category		
Characteristic	Center (N=7)	Region (N=34)	U.S. (N=524)	
Ethnicity/Race (%)*				
White	100.0	94.1	77.7	
African-American	0.0	0.0	4.0	
Hispanic/Latino	0.0	2.9	12.8	
Asian	0.0	2.9	3.6	
Other	0.0	0.0	1.9	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	14.7	9.9	
2-11 years	0.0	2.9	4.2	
12-17	0.0	2.9	1.0	
18-34	0.0	8.8	11.1	
35-49 years	42.9	20.6	14.3	
50-64 years	28.6	20.6	39.9	
65-69 years	28.6	26.5	16.4	
70+ years	0.0	2.9	3.2	
Gender (%)				
Male	71.4	64.7	51.5	
Female	28.6	35.3	48.5	

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



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C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2019 and 12/31/2019

	Percentage in each category		
Characteristic	Center (N=59)	Region (N=297)	Ú.S. (N=8,372)
Blood Type (%)			
0	47.5	43.8	45.4
A	28.8	35.0	36.2
В	18.6	15.5	13.6
AB	5.1	5.7	4.8
Previous Transplant (%)			
Yes	6.8	2.7	4.6
No	93.2	97.3	95.4
Body Mass Index (%)			
0-20	11.9	9.1	11.2
21-25	11.9	19.2	26.4
26-30	35.6	34.3	31.0
31-35	20.3	21.9	18.8
36-40	11.9	10.8	8.4
41+	8.5	4.7	3.5
Unknown	0.0	0.0	0.7
Primary Disease (%)	0.0	0.0	0.1
Acute Hepatic Necrosis	6.8	6.7	4.6
Non-Cholestatic Cirrhosis	67.8	58.9	63.5
Cholestatic Liver Disease/Cirrhosis	0.0	2.7	6.8
Biliary Atresia	0.0	1.7	2.2
Metabolic Diseases	3.4	2.7	3.3
Malignant Neoplasms	18.6	22.6	15.8
Other	3.4	4.7	3.7
	0.0	0.0	0.1
Missing Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0.1
Status 1A	5.1	4.4	3.1
	÷		÷
Status 1B	0.0	0.0	1.6
MELD 6-10	11.9	16.2	12.6
MELD 11-14	11.9	13.5	13.0
MELD 15-20	28.8	20.2	20.8
MELD 21-30	18.6	20.5	24.7
MELD 31-40	23.7	24.2	21.4
PELD less than or equal to 10	0.0	0.3	1.3
PELD 11-14	0.0	0.0	0.4
PELD 15-20	0.0	0.3	0.4
PELD 21-30	0.0	0.0	0.4
PELD 31 or greater	0.0	0.3	0.2
Temporarily Inactive	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	54.2	56.6	65.8
Hospitalized	22.0	27.3	19.6
ICU	23.7	16.2	14.5
Unknown	0.0	0.0	0.0

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



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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 01/01/2019 and 12/31/2019

	Percentage in each category		
Characteristic	Center (N=7)	Region (N=34)	U.S. (N=524)
Blood Type (%)			
0	42.9	55.9	45.8
A	57.1	44.1	41.4
В	0.0	0.0	9.9
AB	0.0	0.0	2.9
Previous Transplant (%)			
Yes	14.3	2.9	1.5
No	85.7	97.1	98.5
Body Mass Index (%)			
0-20	0.0	20.6	22.1
21-25	14.3	23.5	31.7
26-30	42.9	20.6	26.5
31-35	14.3	23.5	12.6
36-40	28.6	11.8	4.2
41+	0.0	0.0	1.7
Unknown	0.0	0.0	1.1
Primary Disease (%)			
Acute Hepatic Necrosis	0.0	2.9	2.1
Non-Cholestatic Cirrhosis	85.7	44.1	46.0
Cholestatic Liver Disease/Cirrhosis	0.0	17.6	21.6
Biliary Atresia	0.0	11.8	10.5
Metabolic Diseases	0.0	2.9	4.0
Malignant Neoplasms	14.3	20.6	12.8
Other	0.0	0.0	3.1
Missing	0.0	0.0	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0.0
Status 1A	0.0	2.9	0.6
Status 1B	0.0	0.0	1.3
MELD 6-10	71.4	32.4	17.7
MELD 0-10 MELD 11-14	28.6	20.6	23.3
MELD 15-20	0.0	14.7	25.8
MELD 13-20 MELD 21-30	0.0	8.8	16.4
MELD 21-30 MELD 31-40	0.0	0.0	1.5
PELD less than or equal to 10	0.0	2.9	5.2
PELD 11-14	0.0	0.0	1.1
PELD 15-20	0.0	8.8	2.3
PELD 21-30	0.0	0.0	2.3
PELD 31 or greater	0.0	0.0	1.1
Temporarily Inactive	0.0	8.8	1.3
Recipient Medical Condition at Transplant (%)	05.7	70 5	07.0
Not Hospitalized	85.7	76.5	87.8
Hospitalized	0.0	14.7	9.2
ICU	14.3	8.8	2.9
Unknown	0.0	0.0	0.2

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



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C. Transplant Information

Table C3D. Deceased donor characteristicsTransplants performed between 01/01/2019 and 12/31/2019

	Percentage in each category		
Donor Characteristic	Center (N=59)	Region (N=297)	U.S. (N=8,372)
Cause of Death (%)			
Deceased: Stroke	27.1	23.9	27.4
Deceased: MVA	8.5	8.1	12.7
Deceased: Other	64.4	68.0	59.9
Ethnicity/Race (%)*			
White	79.7	71.7	62.8
African-American	6.8	9.1	17.9
Hispanic/Latino	10.2	14.5	15.2
Asian	1.7	1.3	2.9
Other	1.7	3.4	1.1
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	1.2
2-11 years	0.0	0.3	2.6
12-17	1.7	2.4	4.5
18-34	20.3	33.7	32.3
35-49 years	32.2	29.6	27.4
50-64 years	30.5	23.9	24.5
65-69 years	6.8	6.7	3.8
70+ years	8.5	3.4	3.6
Gender (%)			
Male	57.6	58.9	60.3
Female	42.4	41.1	39.7
Blood Type (%)			
0	52.5	47.8	48.3
A	30.5	36.0	37.0
В	13.6	12.5	11.9
AB	3.4	3.7	2.8
Unknown	0.0	0.0	0.0

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



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C. Transplant Information

Table C3L. Living donor characteristicsTransplants performed between 01/01/2019 and 12/31/2019

	Perce	Percentage in each category		
Donor Characteristic	Center (N=7)	Region (N=34)	U.S. (N=524)	
Ethnicity/Race (%)*				
White	100.0	94.1	80.5	
African-American	0.0	2.9	4.0	
Hispanic/Latino	0.0	0.0	9.4	
Asian	0.0	2.9	3.2	
Other	0.0	0.0	2.9	
Not Reported	0.0	0.0	0.0	
Age (%)				
0-11 years	0.0	0.0	0.2	
12-17	0.0	0.0	0.2	
18-34	28.6	32.4	41.8	
35-49 years	42.9	38.2	42.7	
50-64 years	28.6	29.4	15.1	
65-69 years	0.0	0.0	0.0	
70+ years	0.0	0.0	0.0	
Gender (%)				
Male	71.4	47.1	47.3	
Female	28.6	52.9	52.7	
Blood Type (%)				
0	57.1	76.5	64.3	
A	42.9	23.5	28.1	
В	0.0	0.0	6.5	
AB	0.0	0.0	1.1	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C4D. Deceased donor transplant characteristicsTransplants performed between 01/01/2019 and 12/31/2019

	Percentage in each category		
Transplant Characteristic	Center (N=59)	Region (N=297)	U.S. (N=8,372)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-5 hr	61.0	60.1	65.5
Deceased: 6-10 hr	34.1	38.6	32.2
Deceased: 11-15 hr	4.9	0.9	1.4
Deceased: 16-20 hr	0.0	0.0	0.1
Deceased: 21+ hr	0.0	0.0	0.1
Not Reported	0.0	0.4	0.8
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-5 hr	33.3	36.5	40.7
Deceased: 6-10 hr	61.1	62.2	55.3
Deceased: 11-15 hr	5.6	1.4	3.0
Deceased: 16-20 hr	0.0	0.0	0.2
Deceased: 21+ hr	0.0	0.0	0.1
Not Reported	0.0	0.0	0.6
Procedure Type (%)			
Liver alone	100.0	93.9	90.1
Liver and another organ	0.0	6.1	9.9
Sharing (%)			
Local	69.5	75.1	63.3
Shared	30.5	24.9	36.7
Median Time in Hospital After Transplant*	11.5 Days	10.0 Days	10.0 Days

* Multiple organ transplants are excluded from this statistic.



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C. Transplant Information

Table C4L. Living donor transplant characteristicsTransplants performed between 01/01/2019 and 12/31/2019

	Percer	Percentage in each category		
Transplant Characteristic	Center (N=7)	Region (N=34)	U.S. (N=524)	
Relation with Donor (%)				
Related	42.9	41.2	51.0	
Unrelated	57.1	58.8	49.0	
Not Reported	0.0	0.0	0.0	
Procedure Type (%)				
Liver alone	100.0	100.0	100.0	
Liver and another organ	0.0	0.0	0.0	
Median Time in Hospital After Transplant*	17.0 Days	11.0 Days	11.0 Days	

* Multiple organ transplants are excluded from this statistic.



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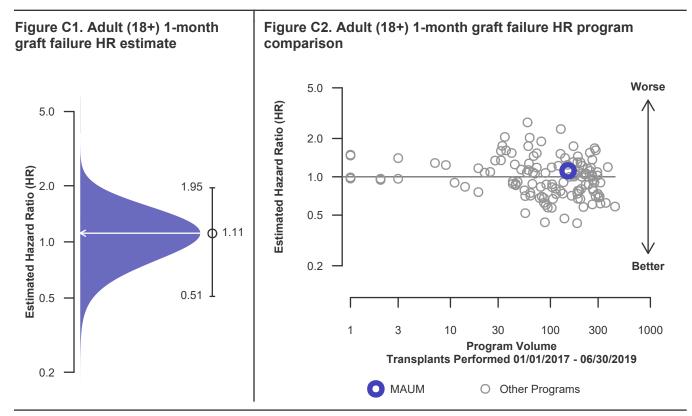
C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	MAUM	U.S.
Number of transplants evaluated	150	17,388
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	95.33%	96.64%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	95.91%	
Number of observed graft failures (including deaths) during the first month after transplant	7	585
Number of expected graft failures (including deaths) during the first month after transplant	6.08	
Estimated hazard ratio*	1.11	
95% credible interval for the hazard ratio**	[0.51, 1.95]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.51, 1.95], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 11% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 49% reduced risk up to 95% increased risk.





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C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

	IVIAUIVI	0.5.
Number of transplants evaluated	126	16,543
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	95.24%	96.61%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	95.69%	
Number of observed graft failures (including deaths) during the first month after transplant	6	560
Number of expected graft failures (including deaths) during the first month after transplant	5.39	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.47, 1.95]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.47, 1.95], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 8% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 53% reduced risk up to 95% increased risk.

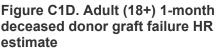
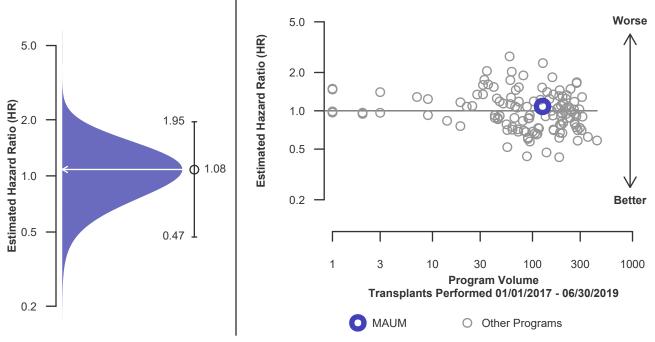


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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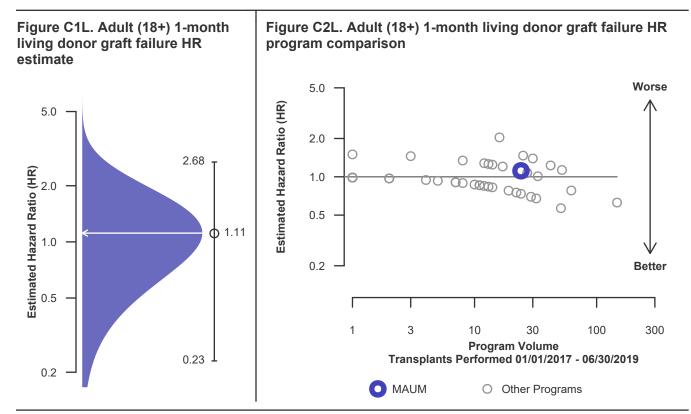
C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graftSingle organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

	IVIAUIVI	0.5.
Number of transplants evaluated	24	845
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	95.83%	97.04%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.04%	
Number of observed graft failures (including deaths) during the first month after transplant	1	25
Number of expected graft failures (including deaths) during the first month after transplant	0.69	
Estimated hazard ratio*	1.11	
95% credible interval for the hazard ratio**	[0.23, 2.68]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.23, 2.68], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 11% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 77% reduced risk up to 168% increased risk.





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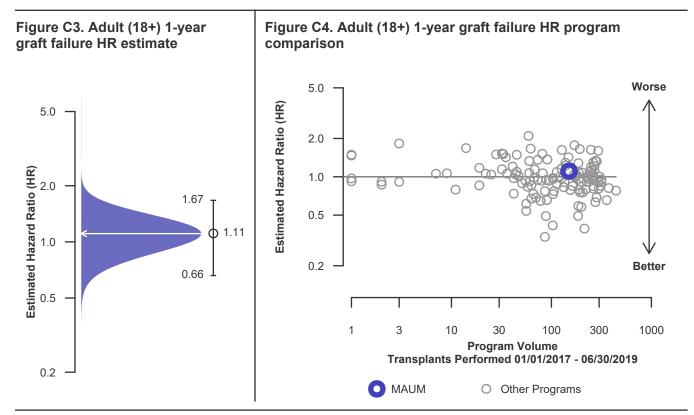
C. Transplant Information

Table C6. Adult (18+) 1-year survival with a functioning graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

	MAUM	0.5.
Number of transplants evaluated	150	17,388
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	88.49%	91.77%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	89.87%	
Number of observed graft failures (including deaths) during the first year after transplant	16	1,352
Number of expected graft failures (including deaths) during the first year after transplant	14.25	
Estimated hazard ratio*	1.11	
95% credible interval for the hazard ratio**	[0.66, 1.67]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.66, 1.67], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 11% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 34% reduced risk up to 67% increased risk.





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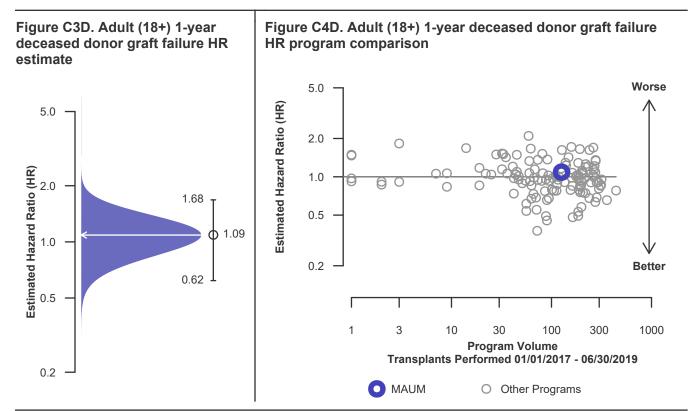
C. Transplant Information

Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

	IVIAUIVI	0.5.
Number of transplants evaluated	126	16,543
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	88.06%	91.70%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	89.22%	
Number of observed graft failures (including deaths) during the first year after transplant	14	1,298
Number of expected graft failures (including deaths) during the first year after transplant	12.71	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.62, 1.68]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.62, 1.68], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 9% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 38% reduced risk up to 68% increased risk.





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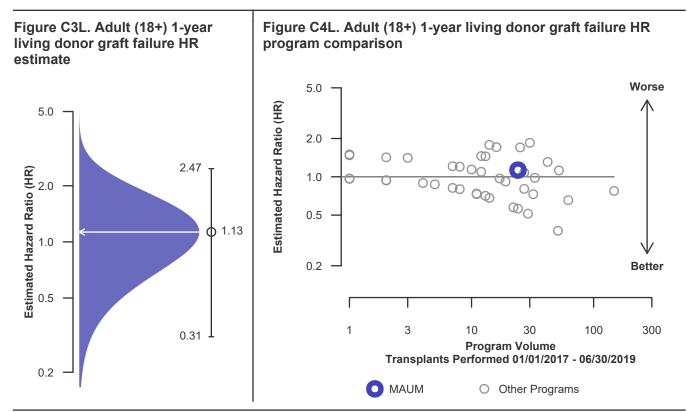
C. Transplant Information

Table C6L. Adult (18+) 1-year survival with a functioning living donor graftSingle organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

	MAUM	0.8.
Number of transplants evaluated	24	845
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	90.79%	93.28%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.28%	
Number of observed graft failures (including deaths) during the first year after transplant	2	54
Number of expected graft failures (including deaths) during the first year after transplant	1.54	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.31, 2.47]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.31, 2.47], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 13% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 69% reduced risk up to 147% increased risk.



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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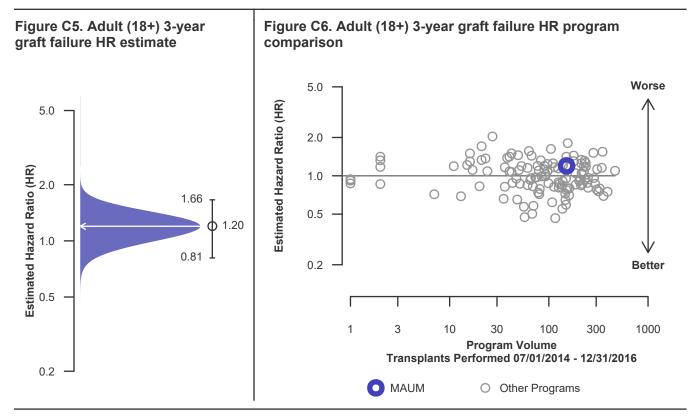
C. Transplant Information

Table C7. Adult (18+) 3-year survival with a functioning graft Single organ transplants performed between 07/01/2014 and 12/31/2016 Deaths and retransplants are considered graft failures

	MAUM	0.8.
Number of transplants evaluated	151	15,208
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	81.46%	84.64%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	84.26%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	28	2,336
Number of expected graft failures (including deaths) during the first 3 years after transplant	23.05	
Estimated hazard ratio*	1.20	
95% credible interval for the hazard ratio**	[0.81, 1.66]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.81, 1.66], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 20% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 19% reduced risk up to 66% increased risk.





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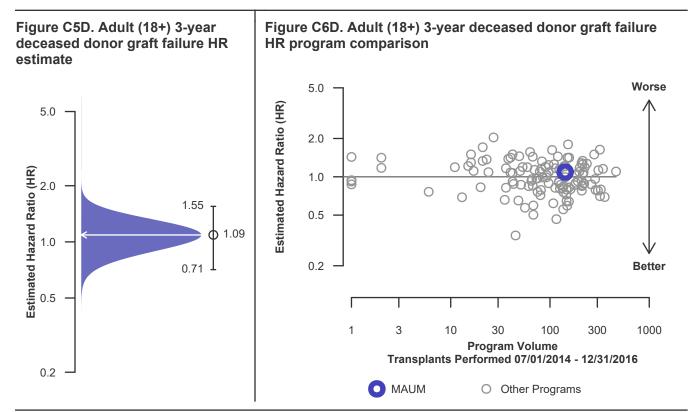
C. Transplant Information

Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2014 and 12/31/2016 Deaths and retransplants are considered graft failures

	INAUN	0.5.
Number of transplants evaluated	142	14,521
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	83.10%	84.66%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	84.26%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	24	2,228
Number of expected graft failures (including deaths) during the first 3 years after transplant	21.87	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.71, 1.55]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.71, 1.55], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 9% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 29% reduced risk up to 55% increased risk.





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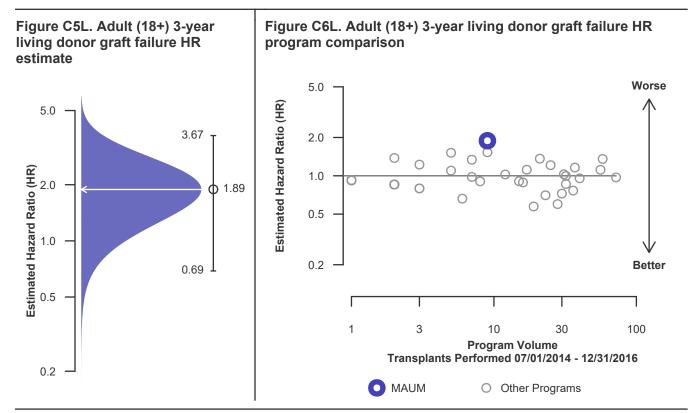
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Table C7L. Adult (18+) 3-year survival with a functioning living donor graftSingle organ transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failures

	MAUM	0.8.
Number of transplants evaluated	9	687
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	55.56%	84.28%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	84.29%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	4	108
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.18	
Estimated hazard ratio*	1.89	
95% credible interval for the hazard ratio**	[0.69, 3.67]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.69, 3.67], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 89% higher risk of graft failure compared to an average program, but MAUM's performance could plausibly range from 31% reduced risk up to 267% increased risk.





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C. Transplant Information

Table C8. Pediatric (<18) 1-month survival with a functioning graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

Figure C7. Pediatric (<18) 1-month graft failure HR estimate	Figure C8. Pediatric (<18) 1-month graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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C. Transplant Information

Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

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

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



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C. Transplant Information

Table C8L. Pediatric (<18) 1-month survival with a functioning living donor graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

Figure C7L. Pediatric (<18) 1-month living donor graft failure HR estimate	Figure C8L. Pediatric (<18) 1-month living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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C. Transplant Information

Table C9. Pediatric (<18) 1-year survival with a functioning graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

Figure C9. Pediatric (<18) 1-year graft failure HR estimate	Figure C10. Pediatric (<18) 1-year graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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C. Transplant Information

Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

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

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



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C. Transplant Information

Table C9L. Pediatric (<18) 1-year survival with a functioning living donor graft</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failures

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

Figure C9L. Pediatric (<18) 1-year living donor graft failure HR estimate	Figure C10L. Pediatric (<18) 1-year living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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C. Transplant Information

Table C10. Pediatric (<18) 3-year survival with a functioning graft</th>Single organ transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failures

Figure C11. Pediatric (<18) 3-year graft failure HR estimate	Figure C12. Pediatric (<18) 3-year graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2014-12/31/2016	07/01/2014-12/31/2016



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C. Transplant Information

Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Single organ transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2014-12/31/2016

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
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2014-12/31/2016	07/01/2014-12/31/2016



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C. Transplant Information

Table C10L. Pediatric (<18) 3-year survival with a functioning living donor graft</th>Single organ transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failures

Figure C11L. Pediatric (<18) 3-year living donor graft failure HR estimate	Figure C12L. Pediatric (<18) 3-year living donor graft failure HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2014-12/31/2016	07/01/2014-12/31/2016



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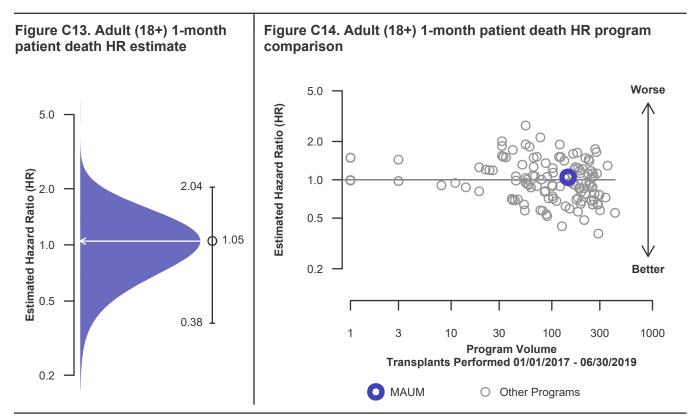
C. Transplant Information

Table C11. Adult (18+) 1-month patient survivalSingle organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

	MAUM	U.S.
Number of transplants evaluated	145	16,732
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	97.24%	97.85%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.40%	
Number of observed deaths during the first month after transplant	4	360
Number of expected deaths during the first month after transplant	3.73	
Estimated hazard ratio*	1.05	
95% credible interval for the hazard ratio**	[0.38, 2.04]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.38, 2.04], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 5% higher risk of patient death compared to an average program, but MAUM's performance could plausibly range from 62% reduced risk up to 104% increased risk.



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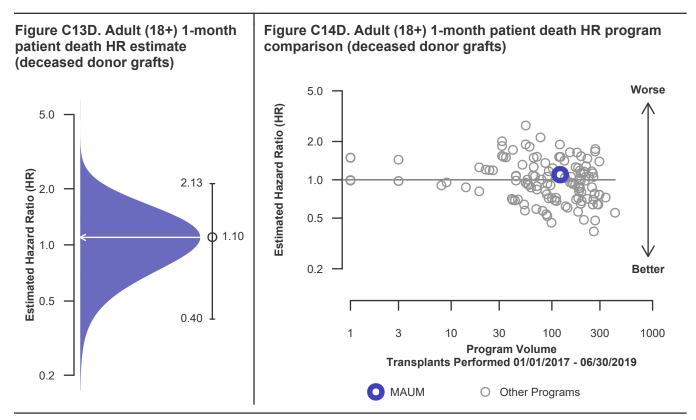
C. Transplant Information

Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded MAUM

	IVIAUIVI	0.3.
Number of transplants evaluated	121	15,895
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	96.69%	97.79%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.10%	
Number of observed deaths during the first month after transplant	4	351
Number of expected deaths during the first month after transplant	3.47	
Estimated hazard ratio*	1.10	
95% credible interval for the hazard ratio**	[0.40, 2.13]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.40, 2.13], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 10% higher risk of patient death compared to an average program, but MAUM's performance could plausibly range from 60% reduced risk up to 113% increased risk.





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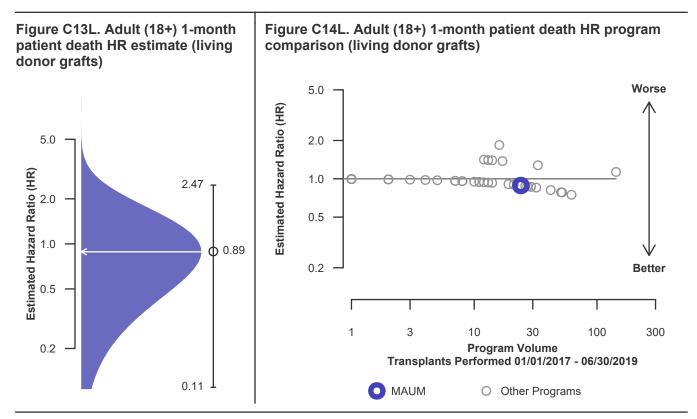
C. Transplant Information

Table C11L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

	IVIAUIVI	0.3.
Number of transplants evaluated	24	837
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.92%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.93%	
Number of observed deaths during the first month after transplant	0	9
Number of expected deaths during the first month after transplant	0.26	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.47]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.11, 2.47], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 11% lower risk of patient death compared to an average program, but MAUM's performance could plausibly range from 89% reduced risk up to 147% increased risk.





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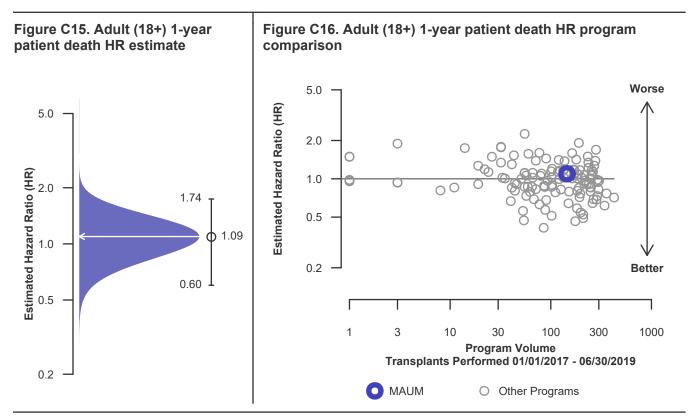
C. Transplant Information

Table C12. Adult (18+) 1-year patient survivalSingle organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

	MAUM	U.S.
Number of transplants evaluated	145	16,732
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	90.89%	93.51%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	91.99%	
Number of observed deaths during the first year after transplant	12	1,014
Number of expected deaths during the first year after transplant	10.79	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.60, 1.74]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.60, 1.74], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 9% higher risk of patient death compared to an average program, but MAUM's performance could plausibly range from 40% reduced risk up to 74% increased risk.



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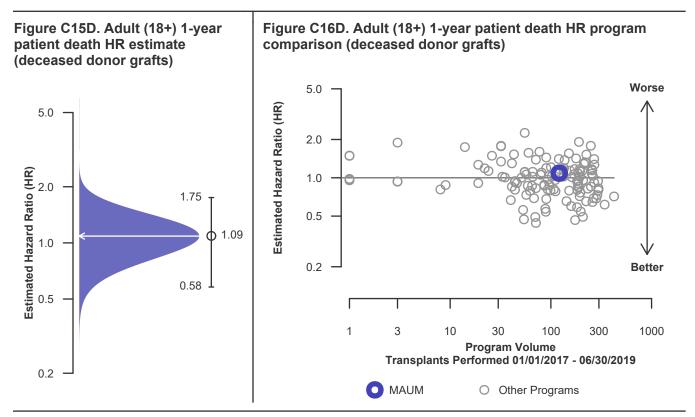
C. Transplant Information

Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded MAUM

•	INIAUNI	0.5.
Number of transplants evaluated	121	15,895
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	90.12%	93.37%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	91.13%	
Number of observed deaths during the first year after transplant	11	986
Number of expected deaths during the first year after transplant	9.96	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.58, 1.75]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.58, 1.75], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 9% higher risk of patient death compared to an average program, but MAUM's performance could plausibly range from 42% reduced risk up to 75% increased risk.





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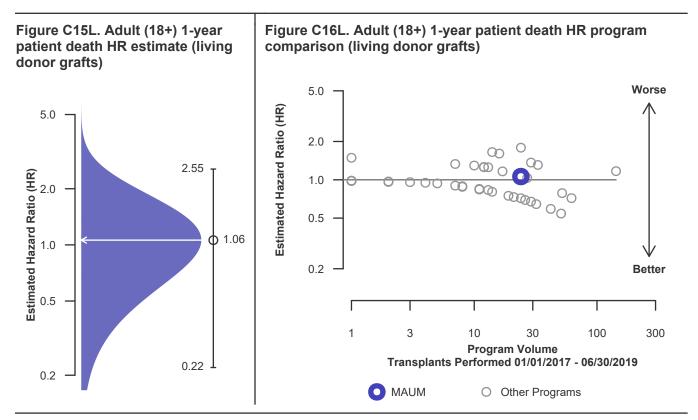
C. Transplant Information

Table C12L. Adult (18+) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded MAUM

-	IVIAUIVI	0.5.
Number of transplants evaluated	24	837
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	94.74%	96.32%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.32%	
Number of observed deaths during the first year after transplant	1	28
Number of expected deaths during the first year after transplant	0.83	
Estimated hazard ratio*	1.06	
95% credible interval for the hazard ratio**	[0.22, 2.55]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.22, 2.55], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 6% higher risk of patient death compared to an average program, but MAUM's performance could plausibly range from 78% reduced risk up to 155% increased risk.





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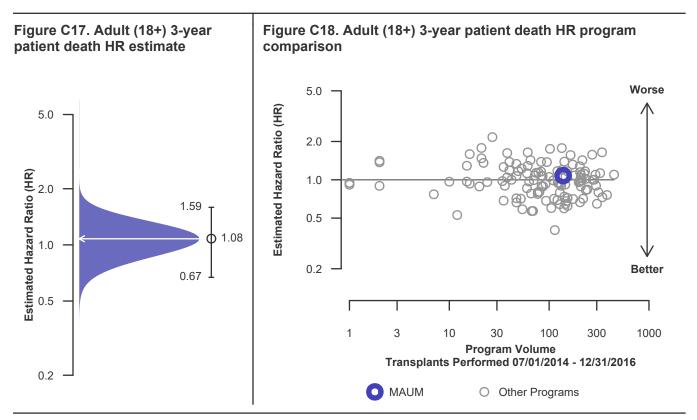
C. Transplant Information

Table C13. Adult (18+) 3-year patient survivalSingle organ transplants performed between 07/01/2014 and 12/31/2016Retransplants excluded

Retransplants excluded	MAUM	U.S.
Number of transplants evaluated	138	14,577
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	86.23%	87.03%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	87.04%	
Number of observed deaths during the first 3 years after transplant	19	1,890
Number of expected deaths during the first 3 years after transplant	17.48	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.67, 1.59]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.67, 1.59], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 8% higher risk of patient death compared to an average program, but MAUM's performance could plausibly range from 33% reduced risk up to 59% increased risk.





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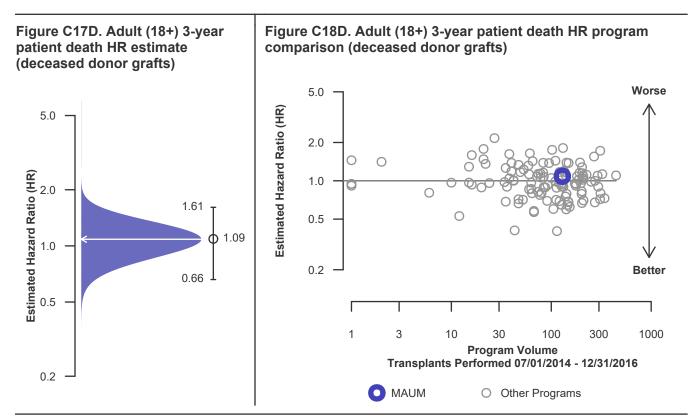
C. Transplant Information

Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2014 and 12/31/2016 Retransplants excluded MAUM

	INAUN	0.5.
Number of transplants evaluated	129	13,895
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	86.05%	86.94%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	86.90%	
Number of observed deaths during the first 3 years after transplant	18	1,815
Number of expected deaths during the first 3 years after transplant	16.43	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.66, 1.61]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.66, 1.61], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 9% higher risk of patient death compared to an average program, but MAUM's performance could plausibly range from 34% reduced risk up to 61% increased risk.



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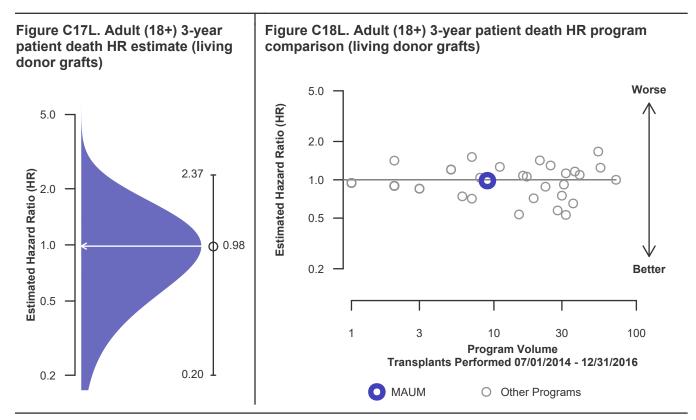
C. Transplant Information

Table C13L. Adult (18+) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2014 and 12/31/2016 Retransplants excluded MAUM

·	MAUM	0.5.
Number of transplants evaluated	9	682
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	88.89%	89.00%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	89.01%	
Number of observed deaths during the first 3 years after transplant	1	75
Number of expected deaths during the first 3 years after transplant	1.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.20, 2.37]	

* The hazard ratio provides an estimate of how UMass Memorial Medical Center (MAUM)'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 MAUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

** The 95% credible interval, [0.20, 2.37], indicates the location of MAUM's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but MAUM's performance could plausibly range from 80% reduced risk up to 137% increased risk.





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Table C14. Pediatric (<18) 1-month patient survival</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

Figure C19. Pediatric (<18) 1-month patient death HR estimate	Figure C20. Pediatric (<18) 1-month patient death HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants 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)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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Table C14L. Pediatric (<18) 1-month patient survival (living donor graft recipients)</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

Figure C19L. Pediatric (<18) 1-month patient death HR estimate (living donor grafts)	Figure C20L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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Table C15. Pediatric (<18) 1-year patient survival</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

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

Figure C21. Pediatric (<18) 1-year patient death HR estimate	Figure C22. Pediatric (<18) 1-year patient death HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

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

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



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Table C15L. Pediatric (<18) 1-year patient survival (living donor graft recipients)</th>Single organ transplants performed between 01/01/2017 and 06/30/2019Retransplants excluded

Figure C21L. Pediatric (<18) 1-year patient death HR estimate (living donor grafts)	Figure C22L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
01/01/2017-06/30/2019	01/01/2017-06/30/2019



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Table C16. Pediatric (<18) 3-year patient survival</th>Single organ transplants performed between 07/01/2014 and 12/31/2016Retransplants excluded

Figure C23. Pediatric (<18) 3-year patient death HR estimate	Figure C24. Pediatric (<18) 3-year patient death HR program comparison
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2014-12/31/2016	07/01/2014-12/31/2016



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Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)</th>Single organ transplants performed between 07/01/2014 and 12/31/2016Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2014-12/31/2016

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)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2014-12/31/2016	07/01/2014-12/31/2016



REGISTRY OFCenter Code: MAUMTRANSPLANTTransplant Program (Organ): Liver
Release Date: August 4, 2020RECIPIENTSBased on Data Available: May 31, 2020

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

C. Transplant Information

Table C16L. Pediatric (<18) 3-year patient survival (living donor graft recipients)</th>Single organ transplants performed between 07/01/2014 and 12/31/2016Retransplants excluded

Figure C23L. Pediatric (<18) 3-year patient death HR estimate (living donor grafts)	Figure C24L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)
This center did not perform any	This center did not perform any
transplants relevant to	transplants relevant to
this figure during	this figure during
07/01/2014-12/31/2016	07/01/2014-12/31/2016



C. Transplant Information

Table C17. Multi-organ transplant graft survival: 01/01/2017 - 06/30/2019

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed MAUM-TX1 USA		Liver Graft Failures MAUM-TX1 USA		Estimated Liver Graft Survival MAUM-TX1 USA	
Kidney-Liver	3	1,697	1	173	66.7%	89.3%

Pediatric (<18) Transplants

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

Table C18. Multi-organ transplant patient survival: 01/01/2017 - 06/30/2019

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transpla Perform MAUM-TX1	ied Pa	atient Deaths M-TX1 USA	Estimated Patient Survival MAUM-TX1 USA		
Kidney-Liver	3	1,697	1 160	66.7%	90.1%	

Pediatric (<18) Transplants

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



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D. Living Donor Information

Table D1. Living donor summary: 01/01/2017 - 12/31/2019

		This Center			United States		
Living Donor Follow-Up	01/2017- 12/2017	01/2018- 12/2018	01/2019- 06/2019	01/2017- 12/2017	01/2018- 12/2018	01/2019- 06/2019	
Number of Living Donors	6	13	5	359	392	246	
6-Month Follow-Up Donors due for follow-up	6	13	5	359	392	246	
Timely clinical data	6 100.0%	13 100.0%	5 100.0%	306 85.2%	347 88.5%	214 87.0%	
Timely lab data	6 100.0%	13 100.0%	5 100.0%	293 81.6%	344 87.8%	216 87.8%	
12-Month Follow-Up Donors due for follow-up	6	13		359	392		
Timely clinical data	5 83.3%	12 92.3%		293 81.6%	324 82.7%		
Timely lab data	5 83.3%	12 92.3%		281 78.3%	316 80.6%		
24-Month Follow-Up Donors due for follow-up	6			358			
Timely clinical data	2 33.3%			249 69.6%			
Timely lab data	2 33.3%			223 62.3%			

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