

Transplant Program (Organ): Liver Release Date: August 4, 2020

Based 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 Massachusetts General Hospital (MAMG). 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 26.7 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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A. Program Summary

Figure A1. Waiting list and transplant activity

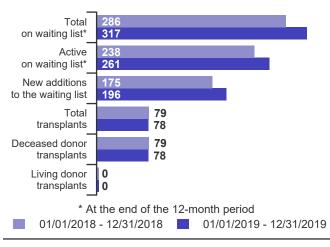


Table A1. Census of transplant recipients

Recipients

01/01/201812/31/2018
12/31/2019

12/31/2018	12/31/2019
79	78
526	599
n 499	564
27	35
	79 526 n 499

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

Figure A2. Transplant rates 01/01/2018 - 12/31/2019

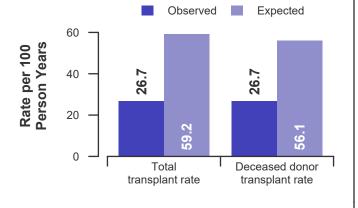


Figure A3. Waiting list mortality rates 01/01/2018 - 12/31/2019

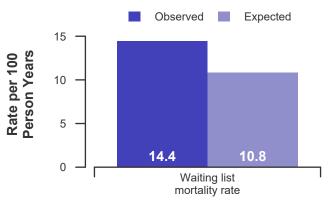


Figure A4. First-year adult graft and patient survival: 01/01/2017 - 06/30/2019

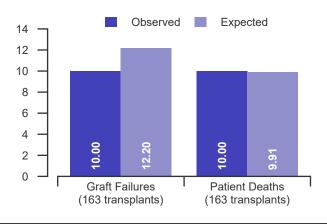
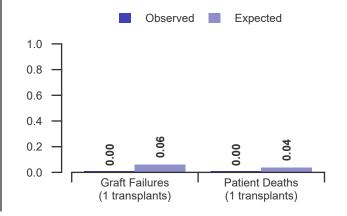


Figure A5. First-year pediatric graft and patient survival: 01/01/2017 - 06/30/2019





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

		nts for center	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	295	286	100.0	100.0	100.0	
New listings at this center	175	196	68.5	76.0	98.7	
Removals						
Transferred to another center	7	1	0.3	0.3	1.2	
Received living donor transplant*	0	0	0.0	3.6	3.8	
Received deceased donor transplant*	79	78	27.3	31.3	61.4	
Died	37	33	11.5	10.0	8.9	
Transplanted at another center	7	3	1.0	1.2	2.8	
Deteriorated	23	23	8.0	6.7	8.8	
Recovered	14	8	2.8	3.3	7.2	
Other reasons	17	19	6.6	7.6	9.1	
On waiting list at end of period	286	317	110.8	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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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2019 and 12/31/2019

Demographia Characteristic		ting List Regis 019 to 12/31/2		All Waiting List Registrations on 12/31/2019 (%)			
Demographic Characteristic	This Center (N=196)	OPTN Region (N=721)	U.S. (N=13,463)	This Center (N=317)	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	83.7	81.1	69.0	84.2	80.6	67.1	
African-American	2.0	3.2	7.6	2.2	3.6	7.4	
Hispanic/Latino	9.2	10.5	17.3	7.9	11.1	18.3	
Asian	5.1	4.2	4.4	5.4	3.7	5.5	
Other	0.0	1.0	1.7	0.3	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	0.6	0.5	1.2	
12-17 years	0.5	1.0	1.1	1.6	1.1	1.1	
18-34 years	10.2	5.8	6.2	8.2	5.4	6.1	
35-49 years	18.4	17.1	17.7	19.6	19.5	18.3	
50-64 years	47.4	53.8	48.7	51.7	55.5	52.6	
65-69 years	18.9	16.0	17.2	15.8	15.0	15.9	
70+ years	4.6	4.9	5.2	2.5	2.4	3.7	
Gender (%)							
Male	63.3	66.7	61.7	61.8	63.2	60.4	
Female	36.7	33.3	38.3	38.2	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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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		All Waiting List Registrations on 12/31/2019 (%)			
medical characteristic	This Center OPTN Region U.S.		U.S. (N=13,463)	This Center (N=317)	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	39.3	44.4	47.0	43.2	47.0	49.2	
A	41.8	40.2	37.5	42.6	40.3	38.5	
В	16.3	12.3	11.9	11.7	10.8	10.2	
AB	2.6	3.1	3.7	2.5	1.9	2.0	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	3.1	3.7	4.7	1.9	2.4	3.3	
No	96.9	96.3	95.3	98.1	97.6	96.7	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Primary Disease (%)							
Acute Hepatic Necrosis	3.6	4.6	4.3	0.9	1.6	1.7	
Non-Cholestatic Cirrhosis	57.7	67.3	66.9	66.2	74.9	71.0	
Cholestatic Liver Disease/Cirrhosis	6.6	5.3	7.1	7.3	6.3	8.0	
Biliary Atresia	1.5	1.5	2.1	1.3	1.3	1.6	
Metabolic Diseases	0.5	2.2	2.4	1.6	1.5	1.6	
Malignant Neoplasms	26.5	16.6	11.8	18.3	11.4	10.5	
Other	3.6	2.5	5.3	4.4	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	1.5	2.8	2.9	0.3	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	0.0	0.1	0.1	
Status 3	0.0	0.0	0.0	0.3	0.2	0.5	
MELD 6-10	24.5	23.9	18.1	26.5	34.2	29.4	
MELD 11-14	26.5	20.8	18.7	32.5	28.0	29.0	
MELD 15-20	23.5	22.1	23.1	30.0	23.1	24.5	
MELD 21-30	11.2	13.7	18.3	6.0	6.8	8.8	
MELD 31-40	9.2	8.5	11.3	0.3	8.0	0.9	
PELD less than or equal to 10	0.0	0.3	1.6	0.6	8.0	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	3.6	7.4	4.3	3.5	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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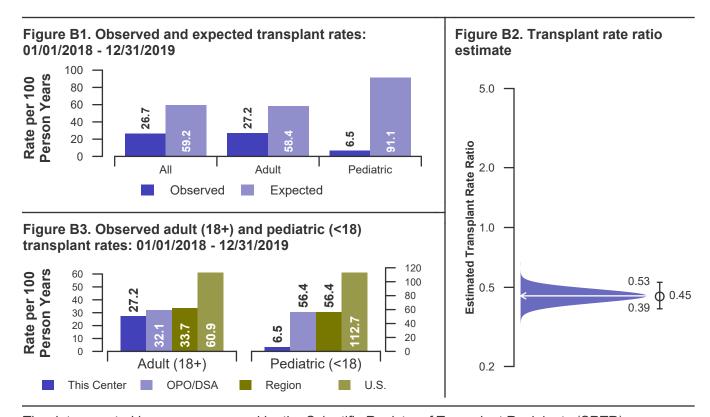
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Table B4. Transplant rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	295	879	908	14,161
Person Years**	589.0	1,877.9	1,946.6	27,294.5
Removals for Transplant	157	616	668	17,146
Adult (18+) Candidates				
Count on waiting list at start*	288	854	883	13,614
Person Years**	573.5	1,824.7	1,893.4	26,280.5
Removals for transpant	156	586	638	16,003
Pediatric (<18) Candidates				
Count on waiting list at start*	7	25	25	547
Person Years**	15.5	53.2	53.2	1,014.0
Removals for transplant	1	30	30	1,143

^{*} 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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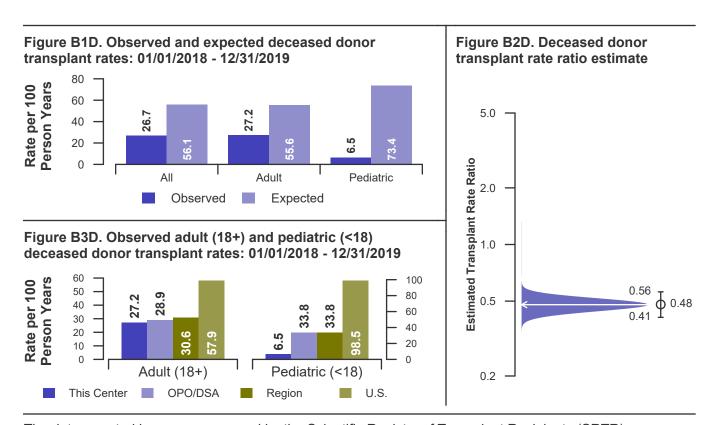
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Table B4D. Deceased donor transplant rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	295	879	908	14,161
Person Years**	589.0	1,877.9	1,946.6	27,294.5
Removals for Transplant	157	546	598	16,222
Adult (18+) Candidates				
Count on waiting list at start*	288	854	883	13,614
Person Years**	573.5	1,824.7	1,893.4	26,280.5
Removals for transpant	156	528	580	15,223
Pediatric (<18) Candidates				
Count on waiting list at start*	7	25	25	547
Person Years**	15.5	53.2	53.2	1,014.0
Removals for transplant	1	18	18	999

^{*} 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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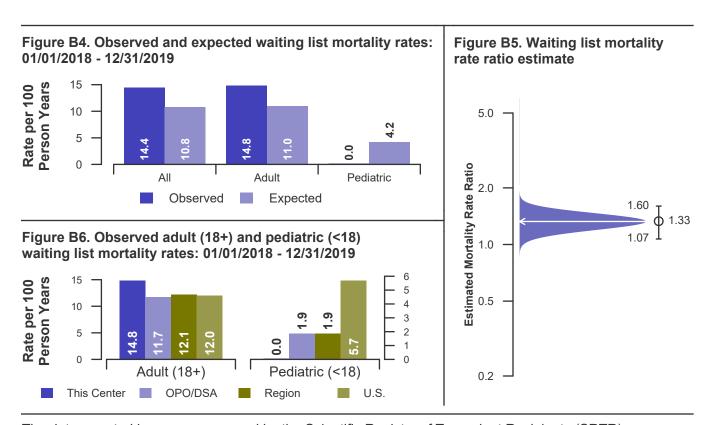
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Table B5. Waiting list mortality rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	295	879	908	14,161
Person Years**	651.5	2,084.3	2,162.9	31,578.0
Number of deaths	94	239	257	3,724
Adult (18+) Candidates				
Count on waiting list at start*	288	854	883	13,614
Person Years**	636.0	2,030.4	2,109.0	30,466.5
Number of deaths	94	238	256	3,661
Pediatric (<18) Candidates				
Count on waiting list at start*	7	25	25	547
Person Years**	15.5	53.9	53.9	1,111.6
Number of deaths	0	1	1	63

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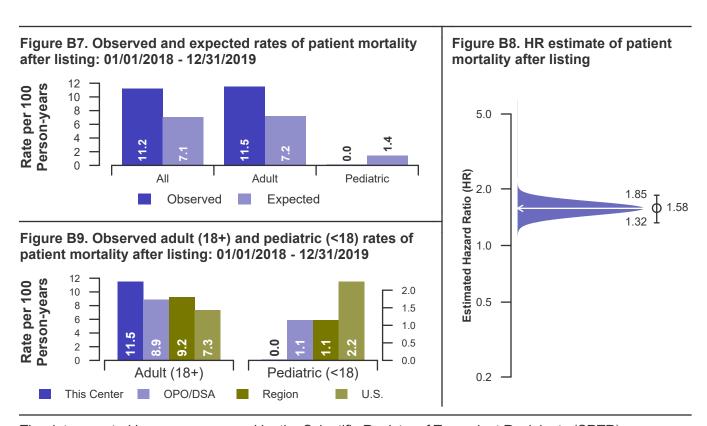
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Table B6. Rates of patient mortality after listing: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	944	3,326	3,535	72,006
Person-years*	1,219.4	4,387.2	4,651.4	96,169.6
Number of Deaths	137	369	409	6,708
Adult (18+) Patients				
Count at risk during the evaluation period	929	3,152	3,361	67,563
Person-years*	1,194.4	4,125.5	4,389.7	89,913.6
Number of Deaths	137	366	406	6,568
Pediatric (<18) Patients				
Count at risk during the evaluation period	15	174	174	4,443
Person-years*	25.0	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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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 07/01/2017 and 06/30/2018

Waiting list status (survival status)	This Center (N=17 Months Since Listi 6 12				U.S. (N=13,030) Months Since Listin 6 12			
Alive on waiting list (%)	72.5	47.8	36.5	48.0	27.5	 18.1		
Died on the waiting list without transplant (%)	5.6	9.6	12.4	4.6	5.9	6.8		
Removed without transplant (%):								
Condition worsened (status unknown)	3.4	6.2	9.0	4.5	6.6	7.6		
Condition improved (status unknown)	1.1	1.1	1.1	1.2	2.1	2.9		
Refused transplant (status unknown)	0.0	0.6	1.7	0.3	0.5	0.6		
Other	1.1	2.2	2.8	1.8	3.3	4.4		
Transplant (living donor from waiting list only) (%):								
Functioning (alive)	0.0	0.0	0.0	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	0.0	0.0	0.0	0.1		
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.1	0.9		
Transplant (deceased donor) (%):								
Functioning (alive)	15.2	24.2	19.7	33.9	43.7	36.6		
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.3	0.4	0.6		
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0		
Died	0.6	1.7	2.2	1.7	2.7	3.6		
Status Yet Unknown*	0.0	5.6	13.5	1.7	4.2	15.3		
Lost or Transferred (status unknown) (%)	0.6	1.1	1.1	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	6.2	11.2	14.6	6.3	8.7	10.5		
Total % known died or removed as unstable	9.6	17.4	23.6	10.8	15.2	18.1		
Total % removed for transplant	15.7	31.5	35.4	39.4	53.7	59.0		
Total % with known functioning transplant (alive)	15.2	24.2	19.7	35.7	46.2	38.5		

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



Center Code: MAMG

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Based on Data Available: May 31, 2020

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Table B7S1. Medical urgency status 1 candidate status after listing Candidates 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 (%)	50.0	50.0	50.0	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)	0.0	0.0	0.0	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)	50.0	0.0	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	50.0	50.0	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	50.0	50.0	50.0	62.3	62.7	62.7
Total % with known functioning transplant (alive)	50.0	0.0	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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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

	Percent transplanted at time periods since listing					ng				
Characteristic		This Center United States								
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	461	7.4	27.1	41.6	43.6	36,338	18.2	46.3	54.2	56.0
Ethnicity/Race*										
White	371	7.5	28.8	42.3	43.7	24,918	18.1	47.3	54.7	56.4
African-American	28	3.6	10.7	28.6	32.1	3,461	21.5	50.7	58.5	60.3
Hispanic/Latino	44	4.5	20.5	36.4	43.2	5,678	17.2	41.4	49.8	51.9
Asian	17	17.6	35.3	58.8	58.8	1,738	16.5	40.7	52.6	54.9
Other	1	0.0	0.0	100.0	100.0	543	17.7	45.3	53.6	55.1
Unknown	0					0				
Age										
<2 years	5	0.0	100.0	100.0	100.0	882	24.0	68.8	73.9	75.2
2-11 years	2	0.0	50.0	100.0	100.0	724	24.2	67.8	73.9	75.3
12-17 years	2	0.0	0.0	50.0	50.0	450	21.3	53.8	64.2	65.8
18-34 years	25	8.0	24.0	36.0	36.0	2,023	26.7	48.4	54.3	56.7
35-49 years	65	9.2	32.3	36.9	43.1	5,644	24.7	48.2	54.0	55.8
50-64 years	280	7.5	27.9	43.6	45.0	20,312	16.4	44.7	53.2	55.2
65-69 years	74	6.8	18.9	36.5	37.8	5,176	14.1	43.1	52.1	53.6
70+ years	8	0.0	0.0	25.0	25.0	1,127	12.8	42.2	49.0	49.2
Gender										
Male	327	7.6	27.8	41.3	43.1	23,058	17.9	47.5	55.8	57.6
Female	134	6.7	25.4	42.5	44.8	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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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	Percent transplanted at time periods since listing This Center United States									
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	461	7.4	27.1	41.6	43.6	36,338	18.2	46.3	54.2	56.0
Blood Type										
0	211	6.6	23.2	38.4	40.3	16,983	17.9	44.5	52.4	54.3
A	173	6.9	28.9	43.9	45.7	13,256	16.8	44.6	53.0	54.6
В	51	3.9	23.5	37.3	41.2	4,713	19.9	52.2	59.3	61.2
AB	26	23.1	53.8	61.5	61.5	1,386	29.4	66.2	70.4	72.1
Previous Transplant										
Yes	25	16.0	44.0	48.0	52.0	2,014	28.2	50.3	55.4	56.8
No	436	6.9	26.1	41.3	43.1	34,324	17.6	46.1	54.1	55.9
Primary Disease										
Acute Hepatic Necrosis	9	22.2	33.3	33.3	33.3	1,437	47.2	55.0	57.8	58.7
Non-Cholestatic Cirrhosis	313	8.3	26.5	36.7	38.3	24,395	18.4	44.3	51.2	52.9
Cholestatic Liver	31	9.7	22.6	29.0	32.3	2,563	15.6	46.8	55.1	58.3
Disease/Cirrhosis										
Biliary Atresia	5	0.0	40.0	40.0	40.0	736	16.4	63.6	72.3	73.8
Metabolic Diseases	8	0.0	50.0	50.0	50.0	905	20.6	60.8	67.7	69.3
Malignant Neoplasms	83	3.6	30.1	63.9	67.5	4,406	8.3	47.6	62.2	64.1
Other	12	0.0	8.3	50.0	50.0	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/		at Listin	g*							
Status 1	0					0				
Status 1A	13	38.5	38.5	38.5	38.5	1,171	60.3	61.2	61.2	61.2
Status 1B	1	0.0	100.0	100.0	100.0	146	42.5	82.9	82.9	82.9
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	131	0.8	22.9	51.9	55.7	7,193	2.9	35.8	50.1	52.6
MELD 11-14	96	0.0	19.8	39.6	41.7	6,776	3.3	31.0	41.8	44.6
MELD 15-20	110	0.9	16.4	22.7	23.6	8,297	8.4	41.5	49.8	52.4
MELD 21-30	55	7.3	36.4	40.0	41.8	6,204	27.3	58.3	61.2	61.9
MELD 31-40	45	51.1	60.0	60.0	60.0	4,062	67.3	73.7	73.8	73.8
PELD less than or equal to 10	3	0.0	66.7	100.0	100.0	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	1	0.0	100.0	100.0	100.0	178	13.5	72.5	78.1	79.8
PELD 21-30	2	0.0	100.0	100.0	100.0	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	4	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	1.7	0.9	0.8	0.3		
25th	10.4	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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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	2,274	6,159	6,276	174,762
Number of Acceptances	69	258	278	7,490
Expected Acceptances	62.7	188.2	208.8	7,484.4
Offer Acceptance Ratio*	1.10	1.37	1.33	1.00
95% Credible Interval**	[0.86, 1.37]			
PHS increased infectious risk				
Number of Offers	477	1,279	1,328	34,414
Number of Acceptances	35	102	114	2,100
Expected Acceptances	23.8	71.4	81.0	2,098.7
Offer Acceptance Ratio*	1.43	1.42	1.40	1.00
95% Credible Interval**	[1.01, 1.93]			
DCD donor				
Number of Offers	928	1,817	1,826	52,630
Number of Acceptances	7	17	17	663
Expected Acceptances	9.6	14.5	17.3	674.7
Offer Acceptance Ratio*	0.78	1.15	0.99	0.98
95% Credible Interval**	[0.35, 1.36]			
HCV+ donor				
Number of Offers	120	246	266	7,371
Number of Acceptances	8	24	26	457
Expected Acceptances	4.5	12.0	13.8	457.8
Offer Acceptance Ratio*	1.53	1.85	1.78	1.00
95% Credible Interval**	[0.74, 2.62]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	1,510	4,066	4,084	97,638
Number of Acceptances	2	34	34	633
Expected Acceptances	6.3	19.2	19.3	641.9
Offer Acceptance Ratio*	0.48	1.70	1.69	0.99
95% Credible Interval**	[0.13, 1.06]			
Donor more than 500 miles away				
Number of Offers	1,115	3,087	3,088	54,690
Number of Acceptances	0	15	15	746
Expected Acceptances	4.3	13.0	13.0	685.4
Offer Acceptance Ratio*	0.32	1.14	1.13	1.09
95% Credible Interval**	[0.04, 0.89]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of Massachusetts General Hospital (MAMG) compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer), while a ratio below one indicates the program is less likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a 25% less likely to accept an offer).

^{**} As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.86, 1.37], indicates the location of MAMG'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 MAMG's performance could plausibly range from 14% reduced acceptance up to 37% higher acceptance.



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Figure B10. Offer acceptance: Overall

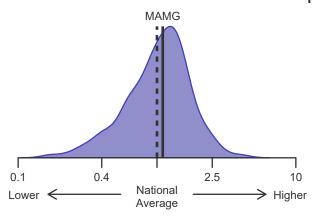


Figure B11. Offer acceptance: PHS increased infectious risk

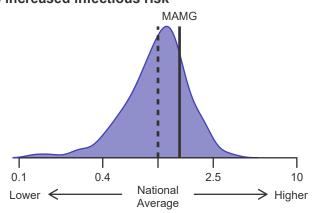
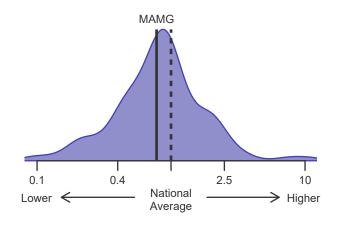


Figure B12. Offer acceptance: DCD Donor

Figure B13. Offer acceptance: HCV+ Donor



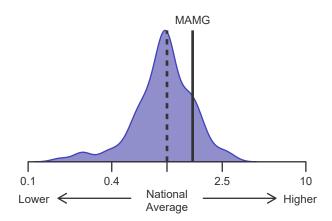
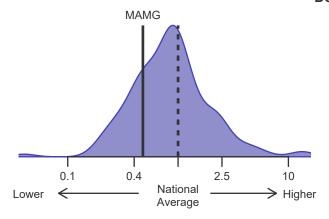
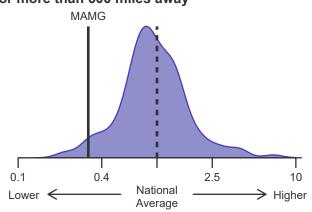


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance: Donor more than 500 miles away







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

	Percentage in each category				
Characteristic	Center (N=78)	Region (N=297)	U.S. (N=8,372)		
Ethnicity/Race (%)*					
White	79.5	78.8	69.0		
African-American	6.4	3.7	8.1		
Hispanic/Latino	7.7	11.4	16.7		
Asian	6.4	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	1.3	0.7	2.3		
12-17	0.0	0.7	1.0		
18-34	10.3	5.4	6.1		
35-49 years	14.1	16.8	18.0		
50-64 years	51.3	56.2	48.5		
65-69 years	14.1	12.1	16.1		
70+ years	9.0	7.7	5.6		
Gender (%)					
Male	57.7	67.0	63.6		
Female	42.3	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%.



Center Code: MAMG Transplant Program (Organ): Liver Release Date: August 4, 2020

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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

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



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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	Region	U.S.	
	(N=78)	(N=297)	(N=8,372)	
Blood Type (%)	20.5	40.0	45.4	
0	38.5	43.8	45.4	
A	39.7	35.0	36.2	
B	16.7	15.5	13.6	
AB Provious Transplant (%)	5.1	5.7	4.8	
Previous Transplant (%)	0.0	2.7	4.6	
Yes No	100.0	2.7 97.3	95.4	
Body Mass Index (%)	100.0	91.3	95.4	
0-20	5.1	9.1	11.2	
21-25	24.4	19.2	26.4	
26-30	33.3	34.3	31.0	
31-35	21.8	21.9		
36-40	10.3	10.8	18.8 8.4	
41+	5.1	4.7	3.5	
Unknown	0.0	0.0	0.7	
Primary Disease (%)	0.0	0.0	0.7	
Acute Hepatic Necrosis	9.0	6.7	4.6	
		58.9		
Non-Cholestatic Cirrhosis Cholestatic Liver Disease/Cirrhosis	50.0 5.1	2.7	63.5	
	2.6	1.7	6.8 2.2	
Biliary Atresia Metabolic Diseases	0.0	2.7	3.3	
	25.6	22.6		
Malignant Neoplasms Other	25.6 7.7		15.8	
		4.7	3.7	
Missing Medical Urganov Statust/MELD/BELD at Transplant (%/)*	0.0	0.0	0.1	
Medical Urgency Statust/MELD/PELD at Transplant (%)*	2.6	1 1	3.1	
Status 1A Status 1B	2.6 0.0	4.4 0.0	3. i 1.6	
	19.2	16.2	12.6	
MELD 6-10 MELD 11-14	10.3	13.5	13.0	
	12.8	20.2		
MELD 15-20	21.8	20.2	20.8	
MELD 21-30	32.1		24.7	
MELD 31-40	0.0	24.2 0.3	21.4 1.3	
PELD less than or equal to 10	0.0			
PELD 11-14	0.0	0.0	0.4	
PELD 15-20 PELD 21-30	0.0	0.3	0.4	
	0.0 1.3	0.0	0.4	
PELD 31 or greater		0.3	0.2	
Temporarily Inactive	0.0	0.0	0.0	
Recipient Medical Condition at Transplant (%)	60.0	EG G	GE O	
Not Hospitalized	62.8 16.7	56.6	65.8 10.6	
Hospitalized		27.3	19.6	
ICU Unknown	20.5	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

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



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C. Transplant Information

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

	Percentage in each category				
Donor Characteristic	Center (N=78)	Region (N=297)	U.S. (N=8,372)		
Cause of Death (%)					
Deceased: Stroke	20.5	23.9	27.4		
Deceased: MVA	10.3	8.1	12.7		
Deceased: Other	69.2	68.0	59.9		
Ethnicity/Race (%)*					
White	76.9	71.7	62.8		
African-American	5.1	9.1	17.9		
Hispanic/Latino	14.1	14.5	15.2		
Asian	1.3	1.3	2.9		
Other	2.6	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	2.6	2.4	4.5		
18-34	41.0	33.7	32.3		
35-49 years	33.3	29.6	27.4		
50-64 years	17.9	23.9	24.5		
65-69 years	5.1	6.7	3.8		
70+ years	0.0	3.4	3.6		
Gender (%)					
Male	61.5	58.9	60.3		
Female	38.5	41.1	39.7		
Blood Type (%)					
0	43.6	47.8	48.3		
A	39.7	36.0	37.0		
В	12.8	12.5	11.9		
AB	3.8	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 characteristics
Transplants performed between 01/01/2019 and 12/31/2019

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



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Transplant Program (Organ): Liver Release Date: August 4, 2020

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C. Transplant Information

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

	Percei	Percentage in each category			
Transplant Characteristic	Center (N=78)	Region (N=297)	U.S. (N=8,372)		
Cold Ischemic Time (Hours): Local (%)					
Deceased: 0-5 hr	55.9	60.1	65.5		
Deceased: 6-10 hr	44.1	38.6	32.2		
Deceased: 11-15 hr	0.0	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	60.0	36.5	40.7		
Deceased: 6-10 hr	40.0	62.2	55.3		
Deceased: 11-15 hr	0.0	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	89.7	93.9	90.1		
Liver and another organ	10.3	6.1	9.9		
Sharing (%)					
Local	87.2	75.1	63.3		
Shared	12.8	24.9	36.7		
Median Time in Hospital After Transplant*	9.0 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 characteristics
Transplants performed between 01/01/2019 and 12/31/2019

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



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Transplant Program (Organ): Liver Release Date: August 4, 2020

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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	MAMG	U.S.
Number of transplants evaluated	163	17,388
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.16%	96.64%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.93%	
Number of observed graft failures (including deaths) during the first month after transplant	3	585
Number of expected graft failures (including deaths) during the first month after transplant	5.05	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.23, 1.45]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

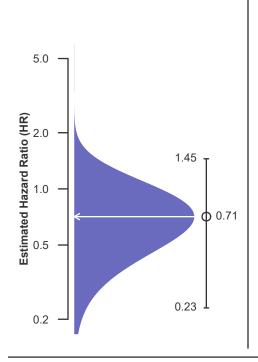
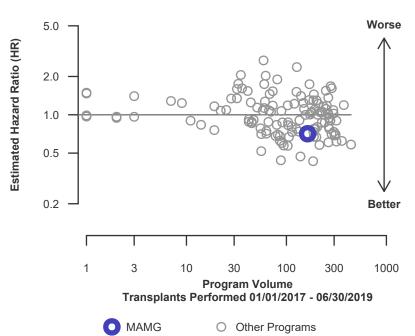


Figure C2. Adult (18+) 1-month graft failure HR program comparison



^{**} The 95% credible interval, [0.23, 1.45], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 29% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 77% reduced risk up to 45% increased risk.



Center Code: MAMG

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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

Double and folianoplante are beneficially grant families	MAMG	U.S.
Number of transplants evaluated	162	16,543
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.15%	96.61%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.93%	
Number of observed graft failures (including deaths) during the first month after transplant	3	560
Number of expected graft failures (including deaths) during the first month after transplant	5.02	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.23, 1.46]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

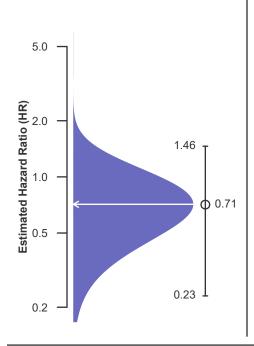
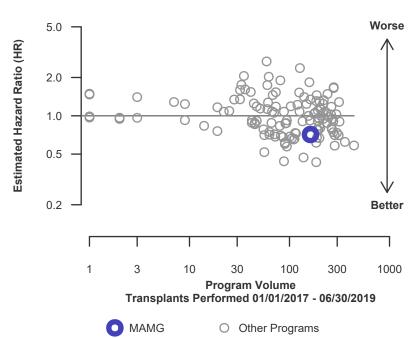


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [0.23, 1.46], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 29% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 77% reduced risk up to 46% increased risk.



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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	1	845
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	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	0	25
Number of expected graft failures (including deaths) during the first month after transplant	0.03	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.74]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

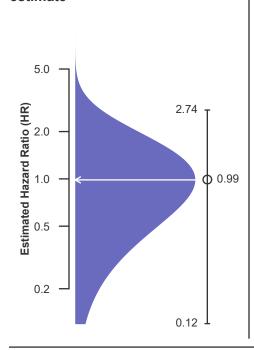
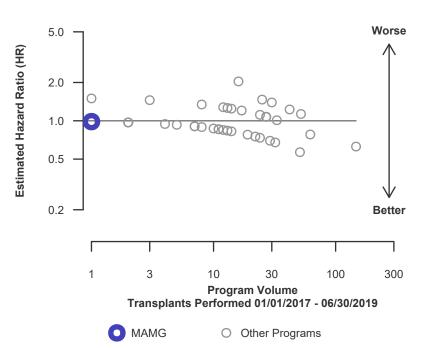


Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison



^{**} The 95% credible interval, [0.12, 2.74], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 1% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 174% increased risk.



Center Code: MAMG

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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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	163	17,388
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	92.71%	91.77%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.20%	
Number of observed graft failures (including deaths) during the first year after transplant	10	1,352
Number of expected graft failures (including deaths) during the first year after transplant	12.20	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.44, 1.39]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

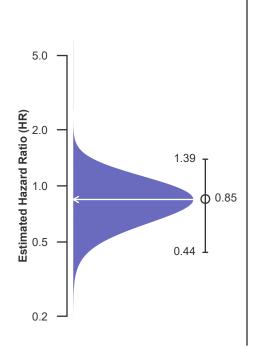
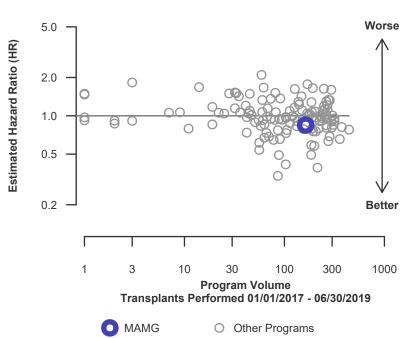


Figure C4. Adult (18+) 1-year graft failure HR program comparison



^{**} The 95% credible interval, [0.44, 1.39], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 15% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 56% reduced risk up to 39% increased risk.



Center Code: MAMG

Transplant Program (Organ): Liver Release Date: August 4, 2020

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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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	162	16,543
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	92.65%	91.70%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.19%	
Number of observed graft failures (including deaths) during the first year after transplant	10	1,298
Number of expected graft failures (including deaths) during the first year after transplant	12.13	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.44, 1.39]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

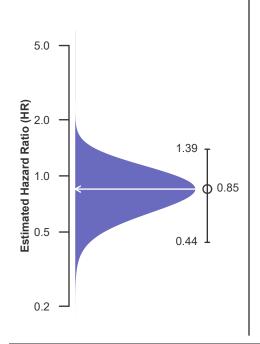
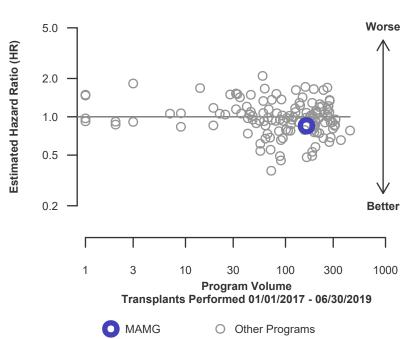


Figure C4D. Adult (18+) 1-year deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [0.44, 1.39], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 15% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 56% reduced risk up to 39% increased risk.



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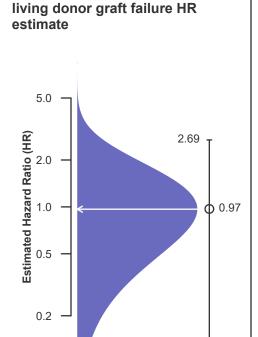
C. Transplant Information

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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	1	845
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	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	0	54
Number of expected graft failures (including deaths) during the first year after transplant	0.07	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.69]	

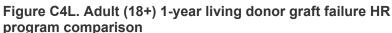
^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate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

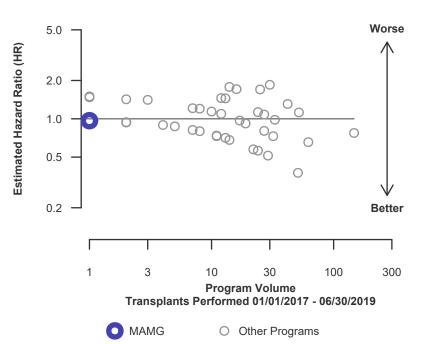
^{**} The 95% credible interval, [0.12, 2.69], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 3% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 169% increased risk.



0.12

Figure C3L. Adult (18+) 1-year







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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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	150	15,208
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	89.33%	84.64%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.08%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	16	2,336
Number of expected graft failures (including deaths) during the first 3 years after transplant	21.25	
Estimated hazard ratio*	0.77	
95% credible interval for the hazard ratio**	[0.46, 1.17]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

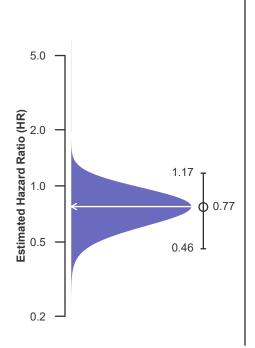
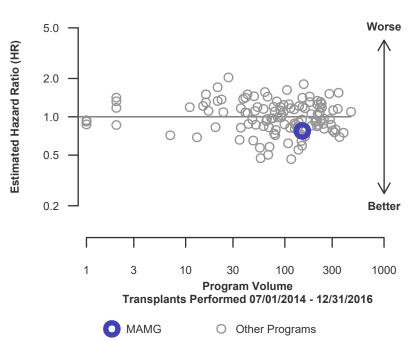


Figure C6. Adult (18+) 3-year graft failure HR program comparison



^{**} The 95% credible interval, [0.46, 1.17], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 23% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 54% reduced risk up to 17% increased risk.



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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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	147	14,521
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	89.12%	84.66%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.12%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	16	2,228
Number of expected graft failures (including deaths) during the first 3 years after transplant	20.73	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.47, 1.20]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

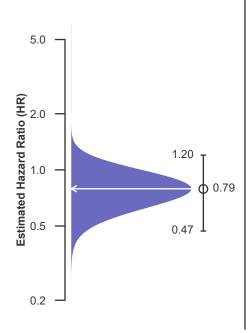
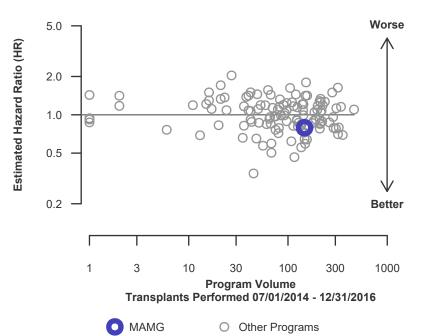


Figure C6D. Adult (18+) 3-year deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [0.47, 1.20], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 53% reduced risk up to 20% increased risk.



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Transplant Program (Organ

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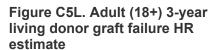
C. Transplant Information

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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	3	687
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	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	0	108
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.51	
Estimated hazard ratio*	0.80	
95% credible interval for the hazard ratio**	[0.10, 2.22]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.22], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 20% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 90% reduced risk up to 122% increased risk.



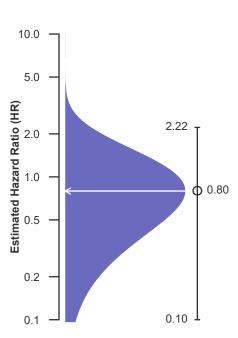
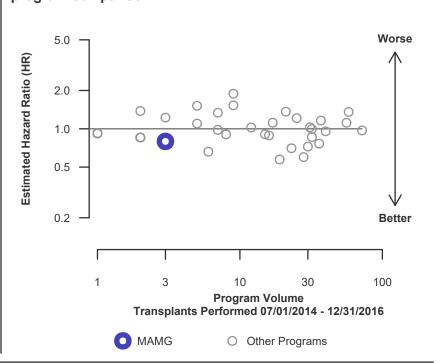


Figure C6L. Adult (18+) 3-year living donor graft failure HR program comparison





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Table C8. Pediatric (<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	MAMG	U.S.
Number of transplants evaluated	1	1,348
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	95.47%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.70%	
Number of observed graft failures (including deaths) during the first month after transplant	0	61
Number of expected graft failures (including deaths) during the first month after transplant	0.03	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.74]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

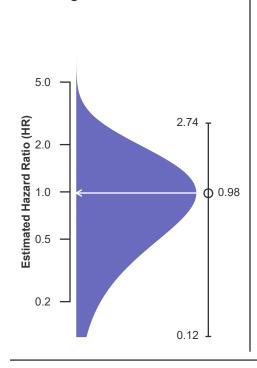
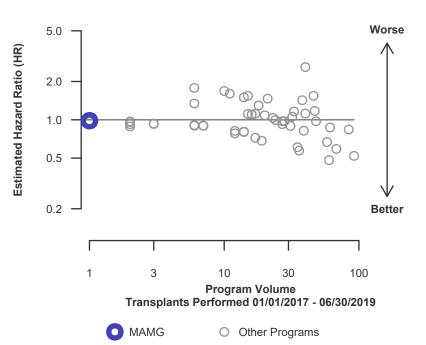


Figure C8. Pediatric (<18) 1-month graft failure HR program comparison



^{**} The 95% credible interval, [0.12, 2.74], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 174% increased risk.



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Table C8D. Pediatric (<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

Deaths and retransplants are considered graπ failures	MAMG	U.S.
Number of transplants evaluated	1	1,178
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	95.25%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.70%	
Number of observed graft failures (including deaths) during the first month after transplant	0	56
Number of expected graft failures (including deaths) during the first month after transplant	0.03	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.74]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

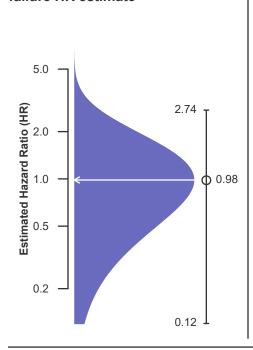
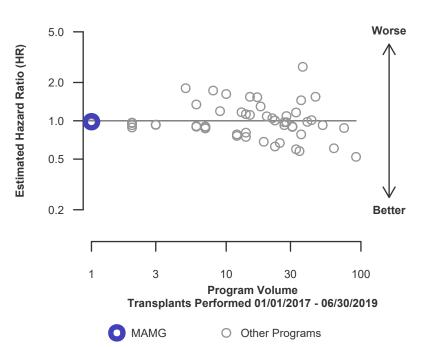


Figure C8D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [0.12, 2.74], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 174% increased risk.



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C. Transplant Information

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

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

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

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



Center Code: MAMG
Transplant Program (Organ)

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Table C9. Pediatric (<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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	1	1,348
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	92.68%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.04%	
Number of observed graft failures (including deaths) during the first year after transplant	0	97
Number of expected graft failures (including deaths) during the first year after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.70]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

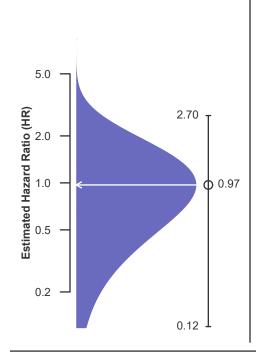
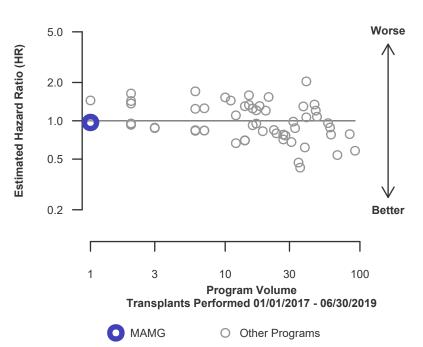


Figure C10. Pediatric (<18) 1-year graft failure HR program comparison



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



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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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	1	1,178
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	92.30%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.04%	
Number of observed graft failures (including deaths) during the first year after transplant	0	89
Number of expected graft failures (including deaths) during the first year after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.70]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

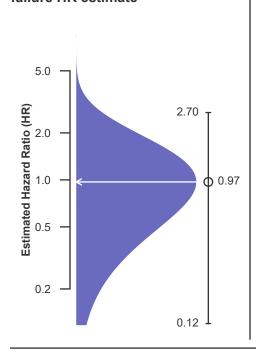
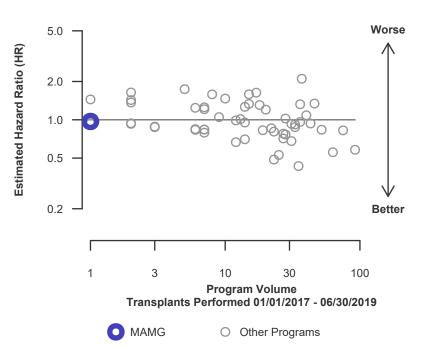


Figure C10D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison



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



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C. Transplant Information

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

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

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



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Table C10. Pediatric (<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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	7	1,304
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	88.73%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.81%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	147
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.83	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.09, 1.97]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

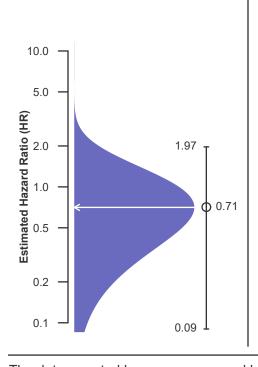
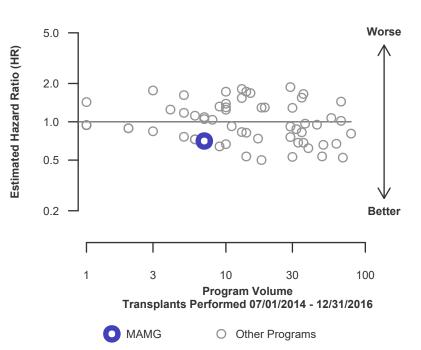


Figure C12. Pediatric (<18) 3-year graft failure HR program comparison



^{**} The 95% credible interval, [0.09, 1.97], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 29% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 91% reduced risk up to 97% increased risk.



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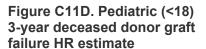
C. Transplant Information

Table C10D. Pediatric (<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

Deaths and retransplants are considered graft failures	MAMG	U.S.
Number of transplants evaluated	6	1,142
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	88.27%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.28%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	134
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.75	
Estimated hazard ratio*	0.73	
95% credible interval for the hazard ratio**	[0.09, 2.03]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.09, 2.03], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 27% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 91% reduced risk up to 103% increased risk.



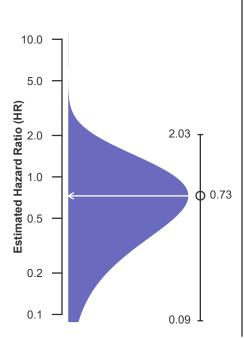
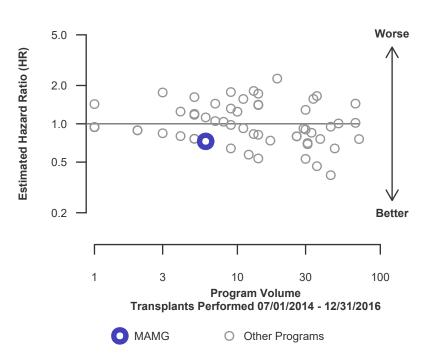


Figure C12D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison





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

Deaths and retransplants are considered graπ failures	MAMG	U.S.
Number of transplants evaluated	1	162
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	91.98%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.00%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	13
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.08	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

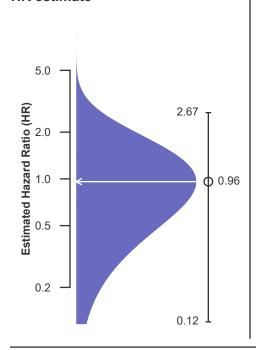
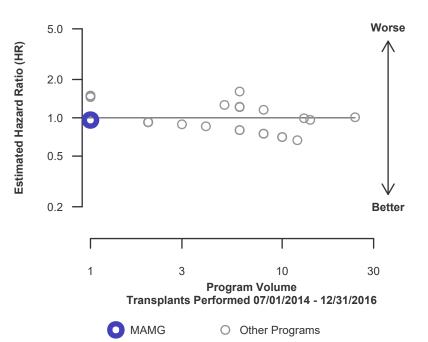


Figure C12L. Pediatric (<18) 3-year living donor graft failure HR program comparison



^{**} The 95% credible interval, [0.12, 2.67], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 4% lower risk of graft failure compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 167% increased risk.



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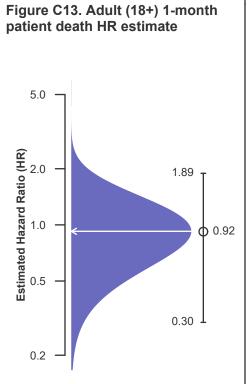
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Table C11. Adult (18+) 1-month patient survival
Single organ transplants performed between 01/01/2017 and 06/30/2019
Retransplants excluded

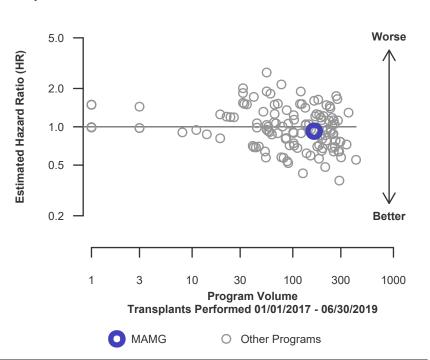
Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	163	16,732
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	98.16%	97.85%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.91%	
Number of observed deaths during the first month after transplant	3	360
Number of expected deaths during the first month after transplant	3.41	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.30, 1.89]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.30, 1.89], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 8% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 70% reduced risk up to 89% increased risk.









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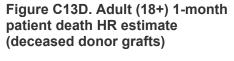
C. Transplant Information

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	MAMG	U.S.
Number of transplants evaluated	162	15,895
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	98.15%	97.79%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.90%	
Number of observed deaths during the first month after transplant	3	351
Number of expected deaths during the first month after transplant	3.40	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.30, 1.90]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



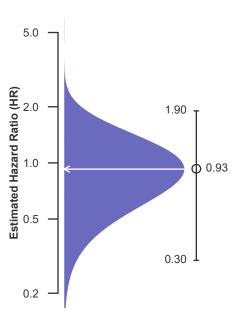
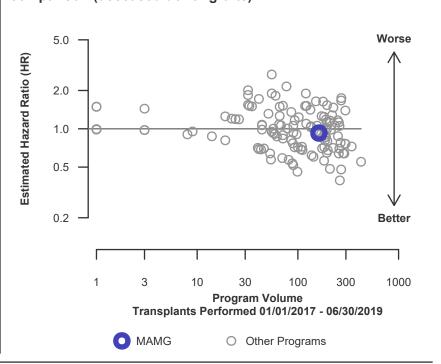


Figure C14D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





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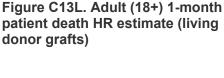
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Table C11L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	1	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	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.77], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 177% increased risk.



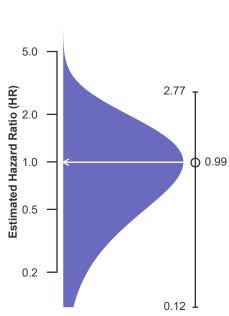
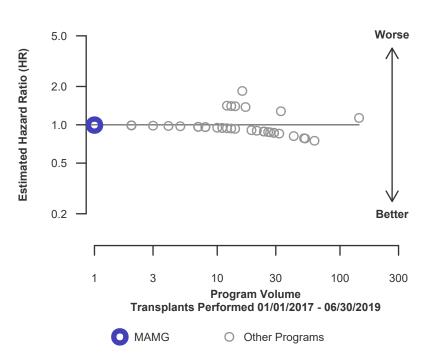


Figure C14L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





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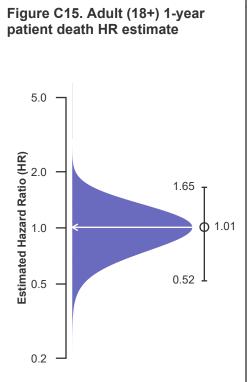
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Table C12. Adult (18+) 1-year patient survival Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

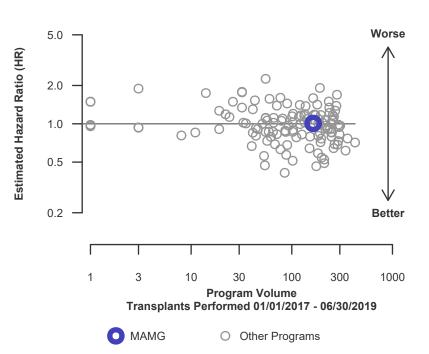
Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	163	16,732
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	92.71%	93.51%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.53%	
Number of observed deaths during the first year after transplant	10	1,014
Number of expected deaths during the first year after transplant	9.91	
Estimated hazard ratio*	1.01	
95% credible interval for the hazard ratio**	[0.52, 1.65]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.52, 1.65], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 1% higher risk of patient death compared to an average program, but MAMG's performance could plausibly range from 48% reduced risk up to 65% increased risk.









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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

Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	162	15,895
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	92.65%	93.37%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.51%	
Number of observed deaths during the first year after transplant	10	986
Number of expected deaths during the first year after transplant	9.88	
Estimated hazard ratio*	1.01	
95% credible interval for the hazard ratio**	[0.52, 1.66]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

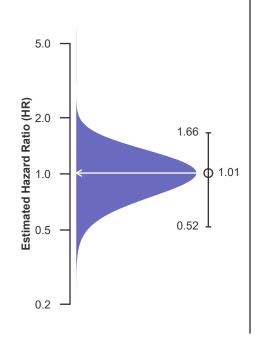
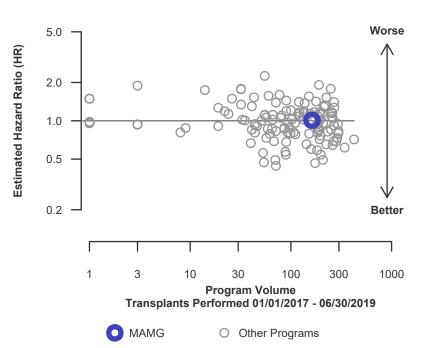


Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)



^{**} The 95% credible interval, [0.52, 1.66], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 1% higher risk of patient death compared to an average program, but MAMG's performance could plausibly range from 48% reduced risk up to 66% increased risk.



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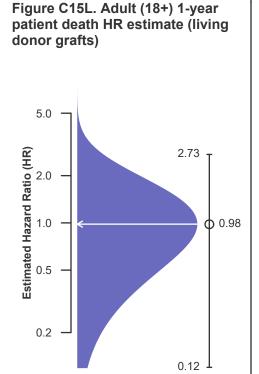
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Table C12L. Adult (18+) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

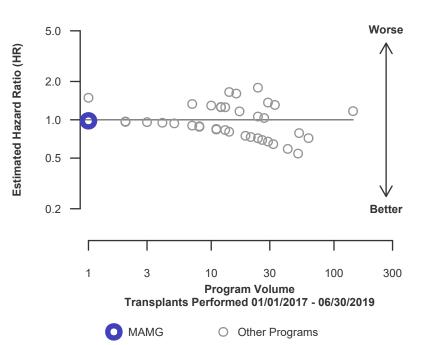
Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	1	837
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	96.32%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.32%	
Number of observed deaths during the first year after transplant	0	28
Number of expected deaths during the first year after transplant	0.04	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.73]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.73], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 173% increased risk.









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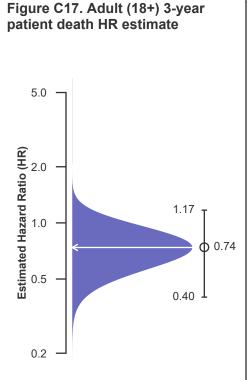
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Table C13. Adult (18+) 3-year patient survival
Single organ transplants performed between 07/01/2014 and 12/31/2016
Retransplants excluded

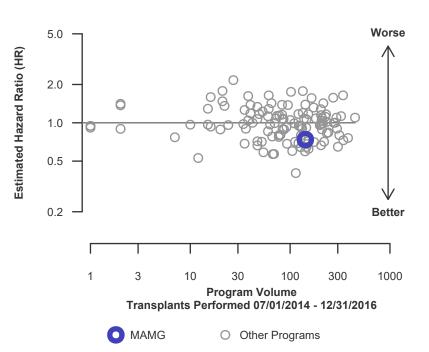
Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	142	14,577
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	91.55%	87.03%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.28%	
Number of observed deaths during the first 3 years after transplant	12	1,890
Number of expected deaths during the first 3 years after transplant	16.97	
Estimated hazard ratio*	0.74	
95% credible interval for the hazard ratio**	[0.40, 1.17]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.40, 1.17], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 26% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 60% reduced risk up to 17% increased risk.









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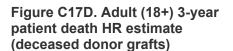
C. Transplant Information

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	MAMG	U.S.
Number of transplants evaluated	139	13,895
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	91.37%	86.94%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.27%	
Number of observed deaths during the first 3 years after transplant	12	1,815
Number of expected deaths during the first 3 years after transplant	16.62	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.41, 1.19]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.41, 1.19], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 25% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 59% reduced risk up to 19% increased risk.



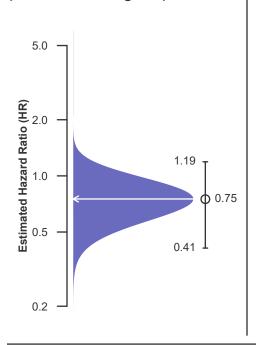
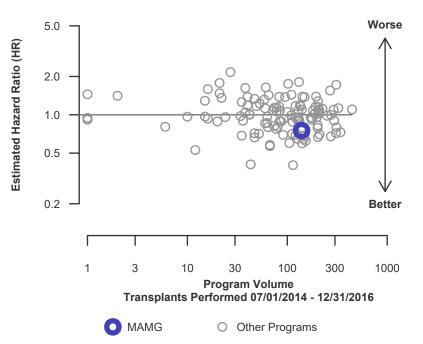


Figure C18D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





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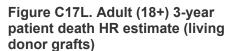
C. Transplant Information

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

Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	3	682
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	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	0	75
Number of expected deaths during the first 3 years after transplant	0.35	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.10, 2.37]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.37], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 15% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 90% reduced risk up to 137% increased risk.



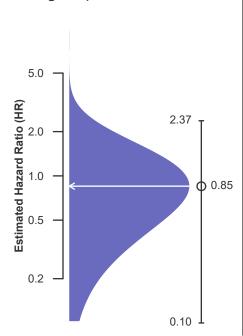
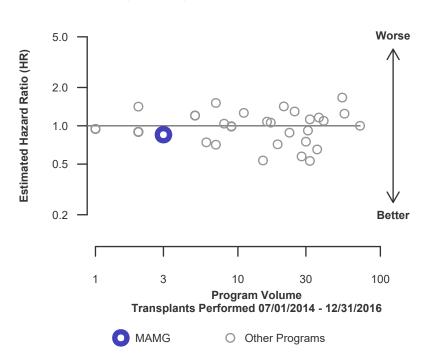


Figure C18L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





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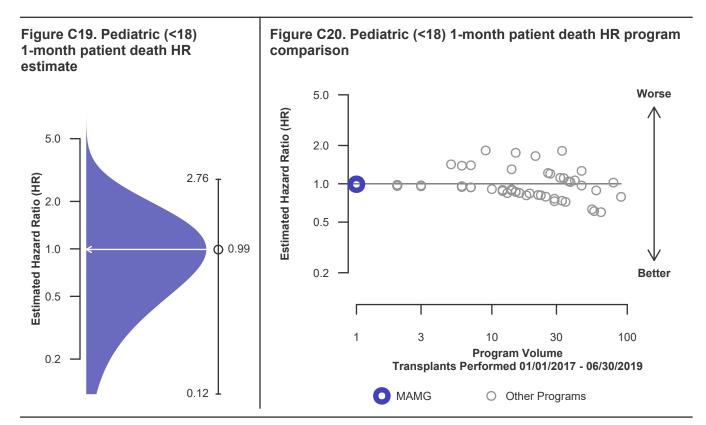
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Table C14. Pediatric (<18) 1-month patient survival
Single organ transplants performed between 01/01/2017 and 06/30/2019
Retransplants excluded

Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	1	1,267
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.87%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.35%	
Number of observed deaths during the first month after transplant	0	27
Number of expected deaths during the first month after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.76], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 176% increased risk.





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C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019

Retransplants excluded

Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	1	1,099
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	97.91%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.35%	
Number of observed deaths during the first month after transplant	0	23
Number of expected deaths during the first month after transplant	0.02	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.76]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

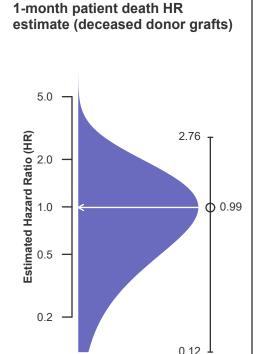
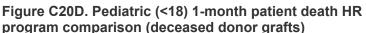
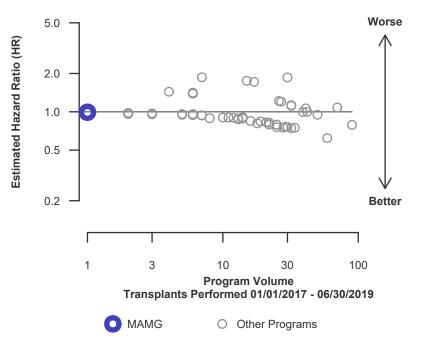


Figure C19D. Pediatric (<18)





^{**} The 95% credible interval, [0.12, 2.76], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 176% increased risk.



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C. Transplant Information

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

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

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

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



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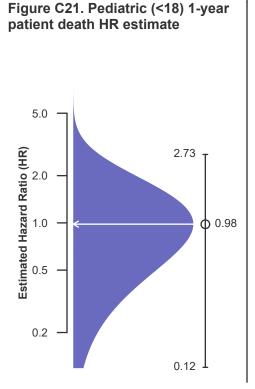
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Table C15. Pediatric (<18) 1-year patient survival
Single organ transplants performed between 01/01/2017 and 06/30/2019
Retransplants excluded

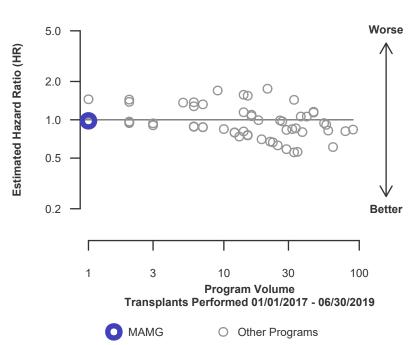
Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	1	1,267
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	95.86%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.26%	
Number of observed deaths during the first year after transplant	0	52
Number of expected deaths during the first year after transplant	0.04	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.73]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.73], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 173% increased risk.









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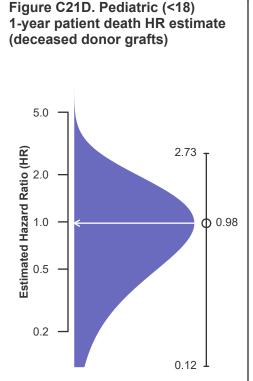
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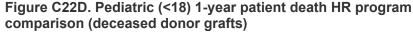
Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2017 and 06/30/2019

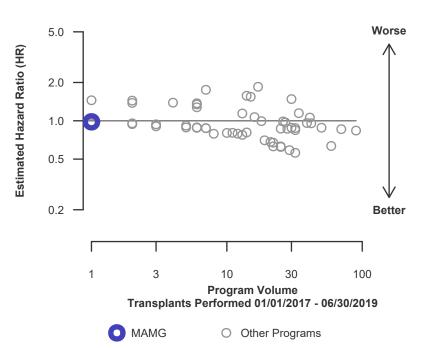
Retransplants excluded	MAMG	U.S.	
Number of transplants evaluated	1	1,099	
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	95.77%	
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.26%		
Number of observed deaths during the first year after transplant	0	46	
Number of expected deaths during the first year after transplant	0.04		
Estimated hazard ratio*	0.98		
95% credible interval for the hazard ratio**	[0.12, 2.73]		

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.73], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 173% increased risk.









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C. Transplant Information

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

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

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

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



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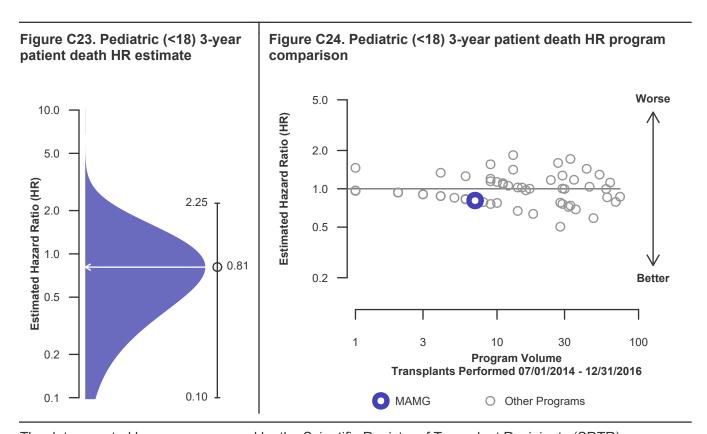
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Table C16. Pediatric (<18) 3-year patient survival Single organ transplants performed between 07/01/2014 and 12/31/2016 Retransplants excluded

Retransplants excluded	MAMG	U.S.
Number of transplants evaluated	7	1,206
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	93.45%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.47%	
Number of observed deaths during the first 3 years after transplant	0	79
Number of expected deaths during the first 3 years after transplant	0.47	
Estimated hazard ratio*	0.81	
95% credible interval for the hazard ratio**	[0.10, 2.25]	

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





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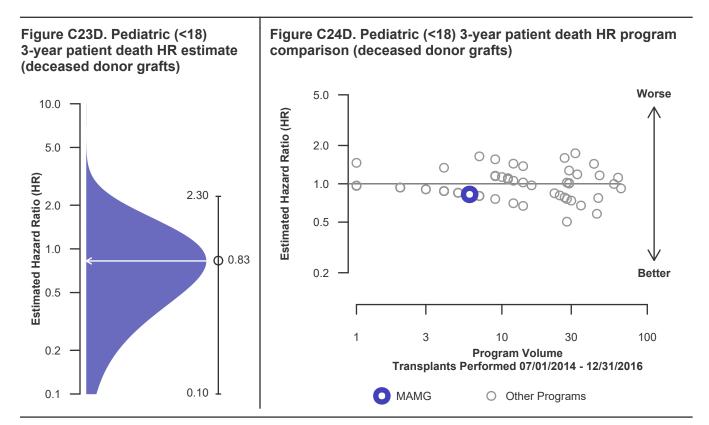
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Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2014 and 12/31/2016

MAMG	U.S.
6	1,044
100.00%	93.20%
93.20%	
0	71
0.42	
0.83	
[0.10, 2.30]	
	6 100.00% 93.20% 0 0.42 0.83

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.30], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 17% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 90% reduced risk up to 130% increased risk.





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C. Transplant Information

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

Retransplants excluded	MAMG	U.S.	
Number of transplants evaluated	1	162	
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	95.06%	
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	95.08%		
Number of observed deaths during the first 3 years after transplant	0	8	
Number of expected deaths during the first 3 years after transplant	0.05		
Estimated hazard ratio*	0.98		
95% credible interval for the hazard ratio**	[0.12, 2.72]		

^{*} The hazard ratio provides an estimate of how Massachusetts General Hospital (MAMG)'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 MAMG's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

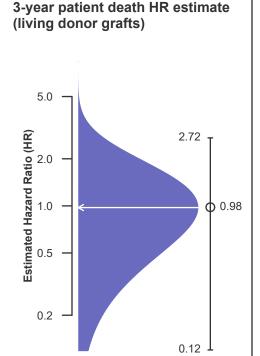
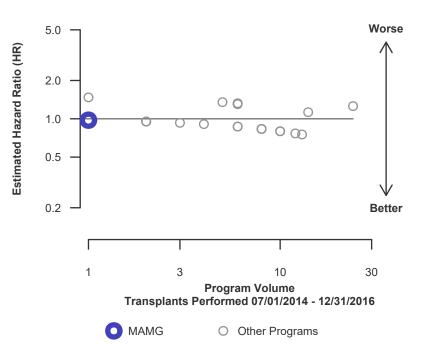


Figure C23L. Pediatric (<18)





^{**} The 95% credible interval, [0.12, 2.72], indicates the location of MAMG's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but MAMG's performance could plausibly range from 88% reduced risk up to 172% increased risk.



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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	Liver Graft Failures	
	MAMG-TX1 USA	MAMG-TX1 USA	MAMG-TX1 USA
Kidney-Liver	30 1,69°	7 3 173	88.9% 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	Transplants Performed		Patient Deaths		Estimated Patient Survival	
	MAMG-TX1	USA	MAMG-TX1	USA	MAMG-TX1	USA
Kidney-Liver	30	1,697	3	160	88.9%	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	1	0	0	359	392	246
6-Month Follow-Up Donors due for follow-up	1	0	0	359	392	246
Timely clinical data	1 100.0%	0 %	0 %	306 85.2%	347 88.5%	214 87.0%
Timely lab data	1 100.0%	0 %	0 %	293 81.6%	344 87.8%	216 87.8%
12-Month Follow-Up Donors due for follow-up	1	0		359	392	
Timely clinical data	0 0.0%	0 %		293 81.6%	324 82.7%	
Timely lab data	0 0.0%	0 %		281 78.3%	316 80.6%	
24-Month Follow-Up Donors due for follow-up	1			358		
Timely clinical data	0 0.0%			249 69.6%		
Timely lab data	0 0.0%			223 62.3%		

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