

Center Code: CASM Transplant Program (Organ): Kidney Release Date: January 5, 2021

Based on Data Available: October 31, 2020

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

This report contains a wide range of useful information about the kidney transplant program at University of California Davis Medical Center (CASM). The report has three main sections:

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

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

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

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

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



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observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 15.8 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2014 and 12/31/2019. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.9 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2020 to calculate a particular percentile of transplant times.



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

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

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

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

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

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

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



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A. Program Summary

Figure A1. Waiting list and transplant activity

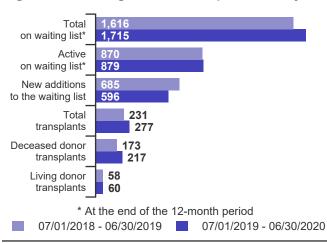


Table A1. Census of transplant recipients

Recipients	07/01/2018- 06/30/2019	07/01/2019- 06/30/2020
Transplanted at this center	231	277
Followed by this center*	2,403	2,345
transplanted at this program	n 2,373	2,317
transplanted elsewhere	30	28

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

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

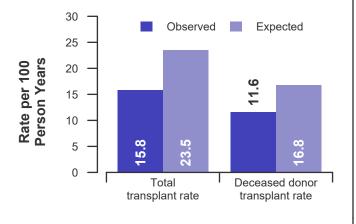


Figure A3. Waiting list mortality rates 07/01/2018 - 03/12/2020



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

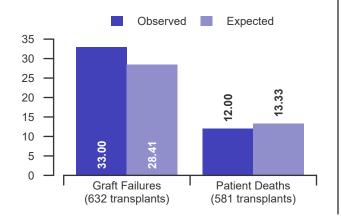
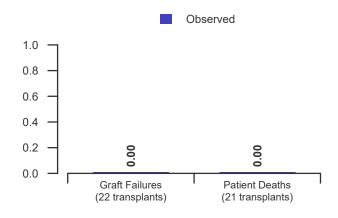


Figure A5. First-year pediatric graft and patient survival: 07/01/2017 - 12/31/2019





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

		its for center	Activity for 07/01/2019 to 06/30/2020 as percent of registrants on waiting lison 07/01/2019			
Waiting List Registrations	07/01/2018- 06/30/2019	07/01/2019- 06/30/2020	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	1,375	1,616	100.0	100.0	100.0	
New listings at this center	685	596	36.9	30.7	39.3	
Removals						
Transferred to another center	5	4	0.2	2.6	1.7	
Received living donor transplant*	58	60	3.7	3.8	5.7	
Received deceased donor transplant*	173	217	13.4	12.5	16.6	
Died	44	38	2.4	4.1	4.1	
Transplanted at another center	53	70	4.3	2.2	3.8	
Deteriorated	65	69	4.3	3.0	4.0	
Recovered	1	0	0.0	0.1	0.2	
Other reasons	45	39	2.4	3.8	5.0	
On waiting list at end of period	1,616	1,715	106.1	98.6	98.2	

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



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2019 and 06/30/2020

Domographic Characteristic		ting List Regi 019 to 06/30/2		All Waiting List Registrations on 06/30/2020 (%)			
Demographic Characteristic	This Center (N=596)	OPTN Region (N=6,968)	U.S. (N=39,776)	This Center (N=1,715)	OPTN Region (N=22,374)	U.S. (N=99,301)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	23.0	26.8	41.7	23.8	21.9	35.2	
African-American	11.2	9.0	28.5	12.5	10.6	32.1	
Hispanic/Latino	32.6	43.4	19.7	28.3	42.9	21.0	
Asian	28.9	17.4	8.1	32.3	21.6	9.9	
Other	4.4	3.4	1.9	3.1	3.1	1.8	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	0.1	0.1	0.0	0.1	0.1	
2-11 years	0.5	1.0	0.9	0.3	0.7	0.6	
12-17 years	1.5	2.0	1.5	1.0	1.2	1.0	
18-34 years	12.4	12.1	10.7	12.1	11.9	10.3	
35-49 years	29.2	24.3	24.2	28.2	27.2	26.9	
50-64 years	37.4	41.3	41.3	41.2	44.0	43.4	
65-69 years	10.2	12.7	13.3	11.3	11.3	12.1	
70+ years	8.7	6.5	8.1	5.9	3.6	5.6	
Gender (%)							
Male	61.7	61.6	62.1	65.0	62.6	62.1	
Female	38.3	38.4	37.9	35.0	37.4	37.9	

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



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Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2019 and 06/30/2020

Medical Characteristic		iting List Regis 019 to 06/30/20		All Waiting List Registrations on 06/30/2020 (%)			
medical characteristic	This Center (N=596)	OPTN Region (N=6,968)	U.S. (N=39,776)	This Center (N=1,715)	OPTN Region (N=22,374)	U.S. (N=99,301)	
AII (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	53.5	52.2	49.1	51.7	55.9	53.8	
A	26.0	30.5	32.4	24.4	26.7	27.2	
В	17.3	13.5	14.8	21.7	15.1	16.5	
AB	3.2	3.7	3.8	2.1	2.4	2.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	8.2	11.6	12.7	9.3	10.1	13.7	
No	91.8	88.4	87.3	90.7	89.9	86.3	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Initial CPRA (%)							
0-9%	69.3	82.3	80.5	61.5	81.3	80.0	
10-79%	21.5	11.0	12.4	25.8	12.7	12.6	
80+%	9.2	6.2	6.9	12.7	5.8	7.3	
Unknown	0.0	0.5	0.2	0.0	0.2	0.1	
Primary Disease (%)*							
Glomerular Diseases	25.0	20.0	18.8	23.1	19.1	18.8	
Tubular and Interstitial Diseases	3.4	4.1	3.8	1.9	3.0	3.6	
Polycystic Kidneys	7.0	6.2	7.5	6.6	5.7	6.9	
Congenital, Familial, Metabolic	1.8	2.5	2.1	1.2	1.9	1.8	
Diabetes	34.7	39.2	35.4	37.9	42.8	36.9	
Renovascular & Vascular Disease:	s 0.0	0.1	0.2	0.0	0.1	0.2	
Neoplasms	0.7	0.2	0.3	0.3	0.2	0.3	
Hypertensive Nephrosclerosis	10.9	13.6	19.8	9.1	15.1	21.2	
Other	15.8	13.4	11.7	19.1	11.5	9.9	
Missing*	0.7	0.6	0.4	0.7	0.6	0.4	

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



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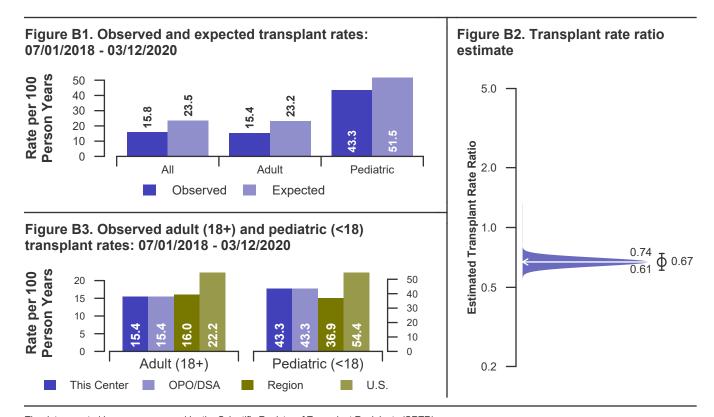
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Table B4. Transplant rates: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,375	1,375	22,327	100,697
Person Years**	2,620.0	2,620.0	38,429.5	171,846.3
Removals for Transplant	413	413	6,296	38,985
Adult (18+) Candidates				
Count on waiting list at start*	1,363	1,363	21,959	99,206
Person Years**	2,587.7	2,587.7	37,732.9	169,185.1
Removals for transpant	399	399	6,039	37,536
Pediatric (<18) Candidates				
Count on waiting list at start*	12	12	368	1,491
Person Years**	32.3	32.3	696.6	2,661.2
Removals for transplant	14	14	257	1,449

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

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





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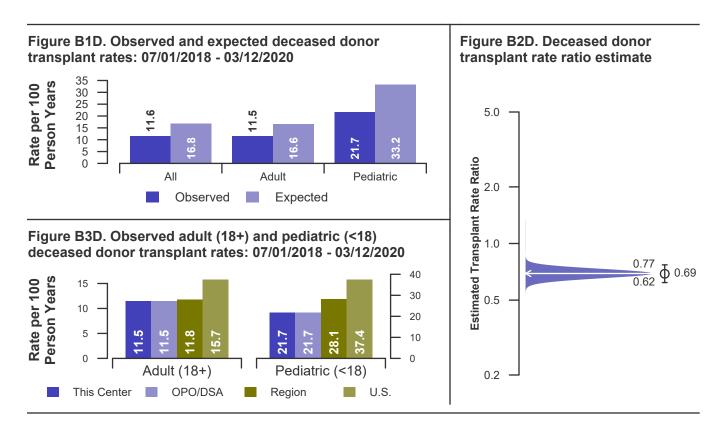
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Table B4D. Deceased donor transplant rates: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,375	1,375	22,327	100,697
Person Years**	2,620.0	2,620.0	38,429.5	171,846.3
Removals for Transplant	304	304	4,640	27,603
Adult (18+) Candidates				
Count on waiting list at start*	1,363	1,363	21,959	99,206
Person Years**	2,587.7	2,587.7	37,732.9	169,185.1
Removals for transpant	297	297	4,444	26,609
Pediatric (<18) Candidates				
Count on waiting list at start*	12	12	368	1,491
Person Years**	32.3	32.3	696.6	2,661.2
Removals for transplant	7	7	196	994

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

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





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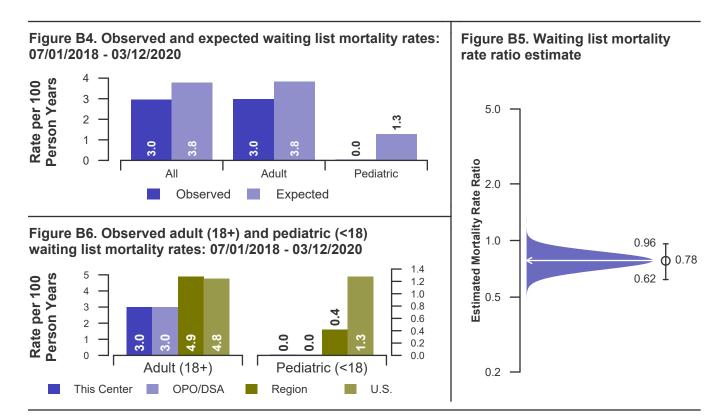
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Table B5. Waiting list mortality rates: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,375	1,375	22,327	100,697
Person Years**	2,779.2	2,779.2	40,315.7	184,662.2
Number of deaths	82	82	1,933	8,721
Adult (18+) Candidates				
Count on waiting list at start*	1,363	1,363	21,959	99,206
Person Years**	2,745.6	2,745.6	39,594.2	181,914.0
Number of deaths	82	82	1,930	8,686
Pediatric (<18) Candidates				
Count on waiting list at start*	12	12	368	1,491
Person Years**	33.6	33.6	721.6	2,748.2
Number of deaths	0	0	3	35

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

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





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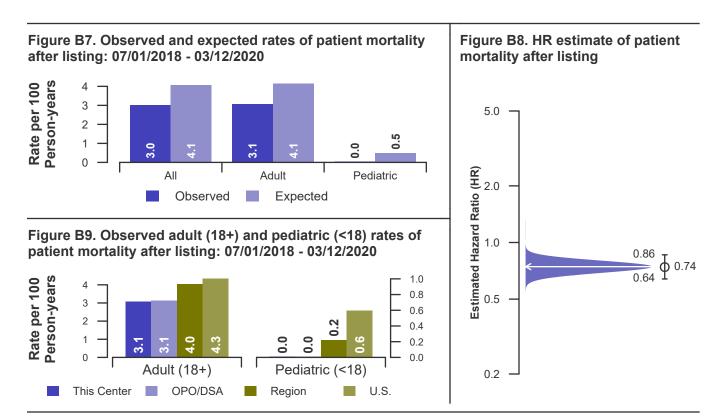
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Table B6. Rates of patient mortality after listing: 07/01/2018 - 03/12/2020

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	4,411	4,472	50,773	288,816
Person-years*	5,988.5	6,019.8	67,301.0	381,306.4
Number of Deaths	180	184	2,627	16,073
Adult (18+) Patients				
Count at risk during the evaluation period	4,316	4,377	49,109	280,336
Person-years*	5,857.7	5,889.0	64,999.8	369,696.7
Number of Deaths	180	184	2,622	16,004
Pediatric (<18) Patients				
Count at risk during the evaluation period	95	95	1,664	8,480
Person-years*	130.8	130.8	2,301.2	11,609.7
Number of Deaths	0	0	5	69

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

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





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

Waiting list status (survival status)		Center (Na ns Since L 12	,	U.S. (N=39,987) Months Since Listing 6 12 18		
Alive on waiting list (%)	81.5	71.5	63.3	77.4	64.2	54.1
Died on the waiting list without transplant (%)	0.3	1.3	1.6	1.0	1.9	2.8
Removed without transplant (%):						
Condition worsened (status unknown)	0.5	1.4	2.2	0.6	1.4	2.4
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.1	0.2
Refused transplant (status unknown)	0.2	0.2	0.2	0.0	0.1	0.2
Other	0.5	0.6	0.9	0.8	1.6	2.6
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	4.9	7.0	6.3	6.7	10.1	7.7
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.2	0.2	0.0	0.1	0.1
Status Yet Unknown**	0.2	0.3	2.4	0.1	0.6	5.0
Transplant (deceased donor) (%):						
Functioning (alive)	10.1	13.4	13.8	11.1	14.6	11.6
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.1
Died	0.0	0.0	0.0	0.2	0.4	0.7
Status Yet Unknown*	1.9	3.8	8.9	1.7	4.0	11.4
Lost or Transferred (status unknown) (%)	0.0	0.3	0.3	0.2	0.7	1.3
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.3	1.4	1.7	1.2	2.4	3.6
Total % known died or removed as unstable	8.0	2.8	4.0	1.9	3.8	6.0
Total % removed for transplant	17.1	24.7	31.5	19.9	29.9	36.5
Total % with known functioning transplant (alive)	15.0	20.4	20.1	17.8	24.7	19.3

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



Center Code: CASM

Transplant Program (Organ): Kidney Release Date: January 5, 2021

Based on Data Available: October 31, 2020

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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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 07/01/2014 and 06/30/2017

				ransplar	nted at 1	time per			_	
Characteristic			nis Cen					ited Sta		
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	1,398	3.3	21.9	31.1	36.1	93,662	3.6	16.0	22.6	27.8
Ethnicity/Race*										
White	381	2.4	17.8	25.5	30.4	37,390	3.9	17.0	23.7	28.8
African-American	180	3.3	18.9	28.9	35.6	29,527	3.5	16.2	22.7	27.9
Hispanic/Latino	382	4.7	29.3	37.7	41.9	17,534	3.7	15.6	22.0	27.4
Asian	419	2.1	19.8	30.8	36.0	7,645	2.0	11.2	17.6	23.0
Other	36	11.1	25.0	36.1	38.9	1,566	4.5	19.5	25.9	31.6
Unknown	0					0				
Age										
<2 years	0					128	5.5	36.7	53.9	68.0
2-11 years	6	33.3	83.3	83.3	83.3	852	8.3	48.4	62.0	70.8
12-17 years	14	21.4	71.4	71.4	71.4	1,407	7.8	49.3	62.2	67.9
18-34 years	174	4.6	24.7	36.2	43.7	9,563	3.5	17.6	25.9	32.9
35-49 years	339	3.5	19.8	29.5	33.9	23,762	3.3	15.0	21.9	27.7
50-64 years	589	2.7	21.1	29.0	33.6	40,111	3.6	14.8	20.7	25.5
65-69 years	178	2.2	22.5	31.5	37.1	12,262	3.7	14.8	20.6	25.1
70+ years	98	1.0	17.3	30.6	35.7	5,577	3.3	15.3	20.9	25.1
Gender										
Male	909	3.2	19.6	28.3	33.0	58,067	3.8	15.6	21.7	26.8
Female	489	3.5	26.2	36.4	41.9	35,595	3.4	16.8	24.0	29.5

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



Percent transplanted at time periods since listing

Center Code: CASM

Transplant Program (Organ): Kidney Release Date: January 5, 2021

Based on Data Available: October 31, 2020

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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B. Waiting List Information

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

Characteristic			nis Cent	ranspiar ter	ileu al i	iiie per		ited Sta	_	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	1,398	3.3	21.9	31.1	36.1	93,662	3.6	16.0	22.6	27.8
Blood Type										
0	715	4.3	21.8	30.2	35.4	46,625	3.3	14.0	19.5	24.0
A	387	3.4	27.6	38.5	45.0	29,375	4.4	19.0	26.9	33.2
В	248	0.4	10.5	19.0	21.4	14,175	2.4	13.1	19.2	24.0
AB	48	2.1	35.4	47.9	52.1	3,487	6.0	30.6	41.5	49.3
Previous Transplant										
Yes	130	6.2	21.5	26.9	30.8	12,856	2.7	16.4	24.4	29.8
No	1,268	3.0	21.9	31.5	36.7	80,806	3.8	16.0	22.3	27.5
Peak PRA/CPRA										
0-9%	814	3.2	23.2	31.8	36.4	75,317	3.9	15.5	21.6	26.8
10-79%	370	2.4	14.9	25.1	31.6	10,787	2.5	15.7	22.8	28.2
80+%	214	5.1	29.0	38.8	43.0	7,475	2.6	22.4	32.3	37.4
Unknown	0					7	100.0	100.0	100.0	100.0
Primary Disease*										
Glomerular Diseases	296	3.0	20.3	30.1	36.1	17,106	2.9	16.8	25.0	31.6
Tubular & Interstitial Diseases	24	4.2	25.0	33.3	37.5	3,474	4.6	19.5	27.3	32.6
Polycystic Kidneys	84	3.6	20.2	28.6	38.1	6,196	2.1	14.6	22.1	28.9
Congenital, Familial, Metabolic	15	13.3	20.0	20.0	26.7	1,840	4.9	29.2	39.0	46.6
Diabetes	498	1.8	18.1	25.7	29.1	32,973	2.4	11.7	16.6	20.7
Renovascular & Vascular Diseases	0					142	6.3	20.4	27.5	33.8
Neoplasms	2	0.0	0.0	0.0	50.0	288	5.6	22.2	28.5	34.7
Hypertensive Nephrosclerosis	126	5.6	30.2	38.9	41.3	20,390	3.4	15.9	22.6	28.2
Other	342	4.4	26.3	38.6	44.4	10,889	9.1	25.7	32.9	37.5
Missing*	11	0.0	18.2	18.2	27.3	364	1.4	11.0	16.5	20.9

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



Center Code: CASM Transplant Program (Organ): Kidney

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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

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

	Months to Transplant**			
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.9	0.9	1.2	0.9
10th	2.3	2.3	3.5	2.5
25th	10.1	10.1	14.2	9.7
50th (median time to transplant)	41.5	41.5	Not Observed	42.4
75th	Not Observed	Not Observed	Not Observed	Not Observed

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

^{**} Censored on 06/30/2020. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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Table B11. Offer Acceptance Practices: 07/01/2019 - 03/12/2020

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	17,545	17,545	320,505	1,489,166
Number of Acceptances	129	129	1,899	11,332
Expected Acceptances	87.6	87.6	1,677.4	11,315.1
Offer Acceptance Ratio*	1.46	1.46	1.13	1.00
95% Credible Interval**	[1.22, 1.72]			
Low-KDRI Donors (KDRI < 1.05)	-			
Number of Offers	2,118	2,118	29,204	148,107
Number of Acceptances	40	40	633	3,735
Expected Acceptances	38.3	38.3	578.2	3,727.8
Offer Acceptance Ratio*	1.04	1.04	1.09	1.00
95% Credible Interval**	[0.75, 1.38]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)	-			
Number of Offers	12,811	12,811	235,227	1,024,741
Number of Acceptances	74	74	975	6,217
Expected Acceptances	42.0	42.0	895.3	6,209.0
Offer Acceptance Ratio*	1.73	1.73	1.09	1.00
95% Credible Interval**	[1.36, 2.14]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	2,616	2,616	56,074	316,318
Number of Acceptances	15	15	291	1,380
Expected Acceptances	7.3	7.3	203.9	1,378.3
Offer Acceptance Ratio*	1.83	1.83	1.42	1.00
95% Credible Interval**	[1.07, 2.80]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	16,588	16,588	293,215	1,289,977
Number of Acceptances	22	22	249	1,603
Expected Acceptances	13.9	13.9	279.5	1,598.9
Offer Acceptance Ratio*	1.51	1.51	0.89	1.00
95% Credible Interval**	[0.97, 2.17]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of University of California Davis Medical Center (CASM) 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, [1.22, 1.72], indicates the location of CASM's true offer acceptance ratio with 95% probability. The best estimate is 46% more likely to accept an offer compared to national acceptance behavior, but CASM's performance could plausibly range from 22% higher acceptance up to 72% higher acceptance.



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Figure B10. Offer acceptance: Overall

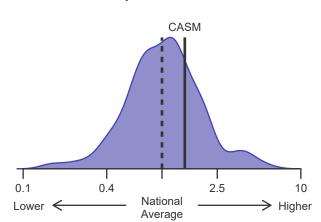


Figure B11. Offer acceptance: Low-KDRI

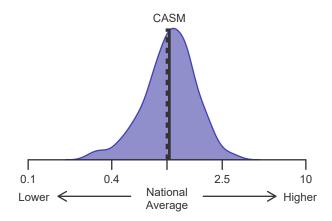
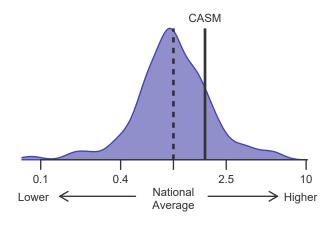


Figure B12. Offer acceptance: Medium-KDRI

Figure B13. Offer acceptance: High-KDRI



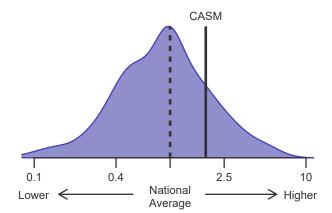
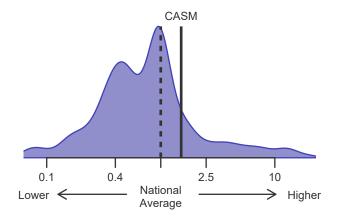


Figure B14. Offer acceptance: Offer number > 100





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C. Transplant Information

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

Characteristic	Perce	Percentage in each category		
	Center (N=217)	Region (N=2,837)	U.S. (N=16,870)	
Ethnicity/Race (%)*				
White	17.1	25.1	37.8	
African-American	9.2	10.9	32.2	
Hispanic/Latino	40.6	44.7	20.3	
Asian	29.0	15.7	7.8	
Other	4.1	3.6	1.9	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.0	0.1	
2-11 years	0.9	1.6	1.2	
12-17	1.4	2.2	1.6	
18-34	18.9	12.3	10.3	
35-49 years	28.1	24.9	23.9	
50-64 years	34.1	37.5	40.3	
65-69 years	8.8	12.7	13.2	
70+ years	7.8	8.8	9.5	
Gender (%)				
Male	63.1	59.0	60.4	
Female	36.9	41.0	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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C. Transplant Information

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

Characteristic	Perce	Percentage in each category		
	Center (N=60)	Region (N=857)	U.S. (N=5,777)	
Ethnicity/Race (%)*				
White	40.0	49.5	65.1	
African-American	11.7	6.1	12.4	
Hispanic/Latino	26.7	26.6	14.7	
Asian	20.0	14.1	6.4	
Other	1.7	3.7	1.4	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.0	0.2	
2-11 years	3.3	2.0	1.7	
12-17	3.3	1.8	1.7	
18-34	25.0	19.5	15.9	
35-49 years	31.7	27.0	25.7	
50-64 years	25.0	30.5	35.3	
65-69 years	8.3	9.9	10.9	
70+ years	3.3	9.5	8.7	
Gender (%)				
Male	73.3	62.7	62.3	
Female	26.7	37.3	37.7	

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



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C. Transplant Information

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

	Percentage in each category		
Characteristic	Center (N=217)	Region (N=2,837)	U.S. (N=16,870)
Blood Type (%)			
0	48.8	46.7	45.5
A	34.1	33.8	35.2
В	11.5	14.4	14.1
AB	5.5	5.1	5.3
Previous Transplant (%)			
Yes	10.6	12.7	12.6
No	89.4	87.3	87.4
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	43.8	58.4	61.2
10-79%	25.8	23.8	22.8
80+ %	30.4	17.8	16.0
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	11.1	12.2	9.4
21-25	35.0	30.7	27.1
26-30	37.8	32.0	30.6
31-35	13.4	18.0	21.1
36-40	2.3	4.8	8.1
41+	0.5	0.6	1.5
Unknown	0.0	1.8	2.2
Primary Disease (%)*			
Glomerular Diseases	30.9	23.6	21.2
Tubular and Interstitial Disease	1.4	4.2	4.0
Polycystic Kidneys	5.5	6.1	7.5
Congenital, Familial, Metabolic	1.8	3.5	2.6
Diabetes	20.7	29.9	30.1
Renovascular & Vascular Diseases	0.0	0.5	0.2
Neoplasms	0.0	0.3	0.4
Hypertensive Nephrosclerosis	11.5	17.2	23.0
Other Kidney	26.7	14.3	10.7
Missing*	1.4	0.5	0.2

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



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C. Transplant Information

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

	Percei	Percentage in each category		
Characteristic	Center (N=60)	Region (N=857)	U.S. (N=5,777)	
Blood Type (%)				
0	41.7	44.3	43.4	
A	36.7	39.4	38.8	
В	16.7	12.4	14.1	
AB	5.0	3.9	3.7	
Previous Transplant (%)				
Yes	8.3	10.0	10.3	
No	91.7	90.0	89.7	
Peak PRA/CPRA Prior to Transplant (%)				
0-9%	70.0	73.5	74.8	
10-79%	21.7	20.2	20.0	
80+ %	8.3	6.3	5.2	
Unknown	0.0	0.0	0.0	
Body Mass Index (%)				
0-20	11.7	13.7	11.3	
21-25	35.0	33.1	27.7	
26-30	30.0	31.0	31.6	
31-35	20.0	15.9	19.5	
36-40	3.3	4.3	7.7	
41+	0.0	0.4	1.1	
Unknown	0.0	1.6	1.1	
Primary Disease (%)*				
Glomerular Diseases	31.7	30.6	28.0	
Tubular and Interstitial Disease	8.3	6.0	5.5	
Polycystic Kidneys	6.7	12.4	13.1	
Congenital, Familial, Metabolic	3.3	3.7	3.8	
Diabetes	18.3	22.5	24.8	
Renovascular & Vascular Diseases	0.0	1.3	0.3	
Neoplasms	0.0	0.1	0.4	
Hypertensive Nephrosclerosis	11.7	12.4	15.1	
Other Kidney	20.0	10.7	8.9	
Missing*	0.0	0.4	0.2	

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



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C. Transplant Information

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

	Perce	Percentage in each category		
Donor Characteristic	Center (N=217)	Region (N=2,837)	U.S. (N=16,870)	
Cause of Death (%)				
Deceased: Stroke	25.8	26.2	22.7	
Deceased: MVA	17.1	14.7	13.3	
Deceased: Other	57.1	59.1	63.9	
Ethnicity/Race (%)*				
White	57.1	52.2	66.8	
African-American	12.9	8.0	13.2	
Hispanic/Latino	18.9	30.9	15.8	
Asian	7.4	6.3	2.9	
Other	3.7	2.6	1.2	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	2.8	1.2	0.8	
2-11 years	3.7	2.9	2.5	
12-17	4.6	3.5	3.8	
18-34	26.7	33.2	33.6	
35-49 years	29.0	29.7	31.7	
50-64 years	30.0	26.3	25.2	
65-69 years	2.3	2.5	2.0	
70+ years	0.9	0.7	0.5	
Gender (%)				
Male	67.7	64.0	63.0	
Female	32.3	36.0	37.0	
Blood Type (%)				
0	50.7	48.9	47.2	
A	35.0	35.6	37.6	
В	11.1	11.8	11.7	
AB	3.2	3.7	3.5	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

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

	Percei	Percentage in each category		
Donor Characteristic	Center (N=60)	Region (N=857)	U.S. (N=5,777)	
Ethnicity/Race (%)*				
White	41.7	58.5	71.5	
African-American	5.0	3.2	7.9	
Hispanic/Latino	28.3	25.1	14.0	
Asian	15.0	10.6	4.9	
Other	10.0	2.7	1.6	
Not Reported	0.0	0.0	0.0	
Age (%)				
0-11 years	0.0	0.0	0.0	
12-17	0.0	0.0	0.0	
18-34	41.7	26.4	25.9	
35-49 years	45.0	38.5	38.3	
50-64 years	11.7	28.8	29.8	
65-69 years	1.7	4.2	4.5	
70+ years	0.0	2.1	1.5	
Gender (%)				
Male	28.3	33.6	35.1	
Female	71.7	66.4	64.9	
Blood Type (%)				
0	63.3	65.5	62.6	
A	23.3	25.4	27.4	
В	13.3	7.9	8.6	
AB	0.0	1.2	1.4	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C4D. Deceased donor transplant characteristics

Transplants performed between 07/01/2019 and 06/30/2020

Transplants performed between 07/01/2019 and 06/30/2020	Percentage in each category		
Transplant Characteristic	Center (N=217)	Region (N=2,837)	U.S. (N=16,870)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-11 hr	17.4	31.9	34.3
Deceased: 12-21 hr	47.9	52.2	47.8
Deceased: 22-31 hr	28.9	13.6	14.6
Deceased: 32-41 hr	5.0	1.0	1.6
Deceased: 42+ hr	0.8	0.2	0.5
Not Reported	0.0	1.1	1.2
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-11 hr	1.0	7.8	9.2
Deceased: 12-21 hr	19.8	40.2	36.3
Deceased: 22-31 hr	61.5	41.9	38.4
Deceased: 32-41 hr	15.6	8.3	11.7
Deceased: 42+ hr	2.1	1.1	3.1
Not Reported	0.0	0.7	1.3
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	10.1	12.8	11.2
1	41.0	41.8	39.7
2	48.8	45.2	48.9
Not Reported	0.0	0.2	0.2
B Locus Mismatches (%)	0.0	0.2	0.2
0	8.8	8.0	7.0
1	23.5	25.0	25.0
2	67.7	66.8	67.7
Not Reported	0.0	0.2	0.2
DR Locus Mismatches (%)	0.0	0.2	0.2
	21.2	17.6	16.0
0	52.5	47.2	
1			47.7
2 Not Decembed	26.3	35.0	36.1
Not Reported	0.0	0.2	0.2
Total Mismatches (%)	4.0	5 0	4.5
0	4.6	5.6	4.5
1	0.5	1.1	1.1
2	7.8	5.3	4.7
3	15.7	14.0	13.9
4	27.6	27.8	27.3
5	33.6	33.0	33.0
6	10.1	13.0	15.2
Not Reported	0.0	0.2	0.2
Procedure Type (%)			
Kidney alone	100.0	93.3	93.8
Kidney and another organ	0.0	6.7	6.2
Dialysis in First Week After Transplant (%)			
Yes	30.0	40.5	28.6
No	70.0	59.5	70.9
Not Reported	0.0	0.0	0.5
Sharing (%)			
Local	55.8	66.0	69.6
Shared	44.2	34.0	30.4

^{*} Multiple organ transplants are excluded from this statistic.



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C. Transplant Information

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

	Percentage in each category		
Transplant Characteristic	Center	Region	U.S.
	(N=60)	(N=857)	(N=5,777)
Relation with Donor (%)			
Related	48.3	39.0	37.9
Unrelated	51.7	60.7	61.7
Not Reported	0.0	0.4	0.3
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	16.7	18.1	16.2
1	51.7	46.7	48.6
2	23.3	32.4	31.6
Not Reported	8.3	2.8	3.5
B Locus Mismatches (%)			
0	5.0	10.0	9.7
1	51.7	40.4	41.6
2	35.0	46.8	45.1
Not Reported	8.3	2.8	3.6
DR Locus Mismatches (%)			
0	18.3	15.8	15.1
1	46.7	48.3	48.4
2	26.7	33.1	33.0
Not Reported	8.3	2.8	3.5
Total Mismatches (%)			
0	1.7	4.4	4.3
1	3.3	5.5	4.1
2	20.0	11.4	11.5
3	25.0	21.2	23.0
4	11.7	18.2	18.2
5	25.0	23.2	22.8
6	5.0	13.2	12.5
Not Reported	8.3	2.8	3.6
Procedure Type (%)			
Kidney alone	100.0	100.0	100.0
Kidney and another organ	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	0.0	3.0	2.7
No	100.0	97.0	96.8
Not Reported	0.0	0.0	0.5
Median Time in Hospital After Transplant*	4.0 Days	3.0 Days	4.0 Days

^{*} Multiple organ transplants are excluded from this statistic.



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C. Transplant Information

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

CASM	U.S.
632	50,251
96.36%	98.67%
98.49%	
23	669
9.33	
2.21	
[1.43, 3.15]	
	632 96.36% 98.49% 23 9.33 2.21

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

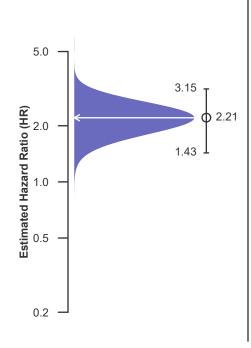
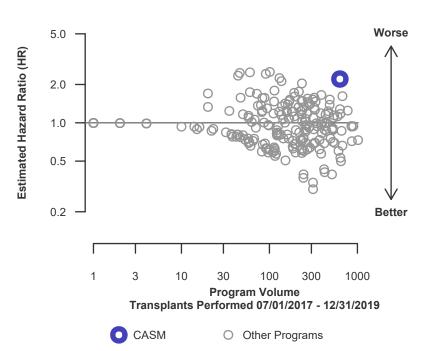


Figure C2. Adult (18+) 1-month graft failure HR program comparison



^{**} The 95% credible interval, [1.43, 3.15], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 121% higher risk of graft failure compared to an average program, but CASM's performance could plausibly range from 43% increased risk up to 215% increased risk.



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C. Transplant Information

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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	493	34,632
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	95.33%	98.42%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.27%	
Number of observed graft failures (including deaths) during the first month after transplant	23	547
Number of expected graft failures (including deaths) during the first month after transplant	8.33	
Estimated hazard ratio*	2.42	
95% credible interval for the hazard ratio**	[1.57, 3.46]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

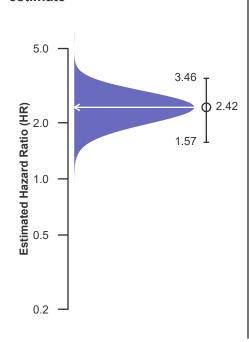
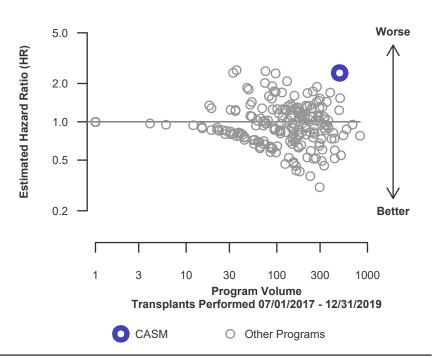


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [1.57, 3.46], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 142% higher risk of graft failure compared to an average program, but CASM's performance could plausibly range from 57% increased risk up to 246% increased risk.

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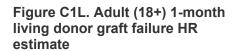
C. Transplant Information

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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	139	15,619
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.22%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.29%	
Number of observed graft failures (including deaths) during the first month after transplant	0	122
Number of expected graft failures (including deaths) during the first month after transplant	0.99	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.08, 1.86]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.08, 1.86], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 33% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 92% reduced risk up to 86% increased risk.



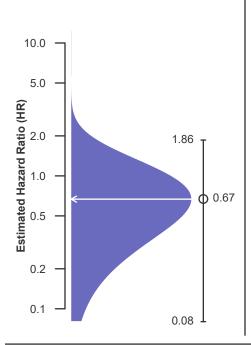
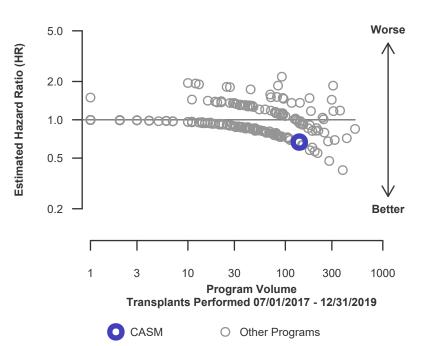


Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison





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C. Transplant Information

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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	632	50,251
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	94.66%	95.75%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.08%	
Number of observed graft failures (including deaths) during the first year after transplant	33	1,946
Number of expected graft failures (including deaths) during the first year after transplant	28.41	
Estimated hazard ratio*	1.15	
95% credible interval for the hazard ratio**	[0.80, 1.56]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

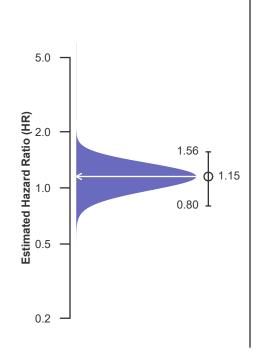
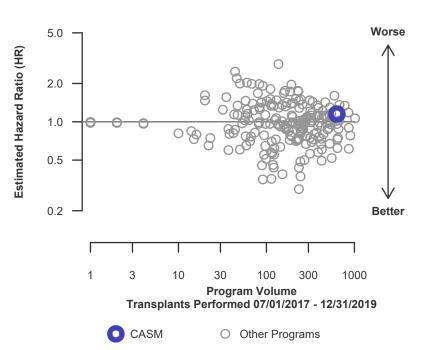


Figure C4. Adult (18+) 1-year graft failure HR program comparison



^{**} The 95% credible interval, [0.80, 1.56], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 15% higher risk of graft failure compared to an average program, but CASM's performance could plausibly range from 20% reduced risk up to 56% increased risk.



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C. Transplant Information

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

Deaths and retransplants are considered graft failures		
boddio dila rottaliopianto dio conciderea giartialiares	CASM	U.S.
Number of transplants evaluated	493	34,632
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	93.61%	94.73%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.21%	
Number of observed graft failures (including deaths) during the first year after transplant	31	1,661
Number of expected graft failures (including deaths) during the first year after transplant	26.09	
Estimated hazard ratio*	1.17	
95% credible interval for the hazard ratio**	[0.81, 1.61]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

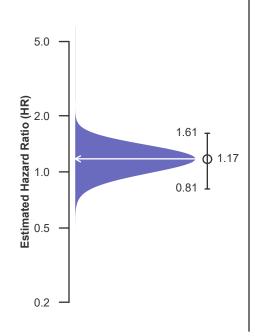
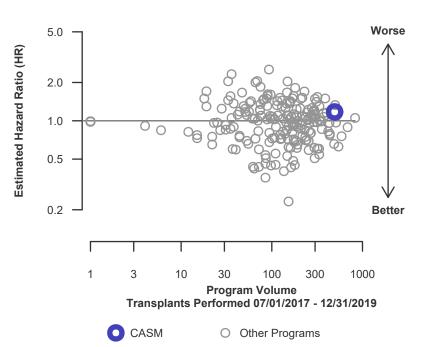


Figure C4D. Adult (18+) 1-year deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [0.81, 1.61], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 17% higher risk of graft failure compared to an average program, but CASM's performance could plausibly range from 19% reduced risk up to 61% increased risk.

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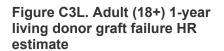
C. Transplant Information

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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	139	15,619
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	98.31%	98.02%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.19%	
Number of observed graft failures (including deaths) during the first year after transplant	2	285
Number of expected graft failures (including deaths) during the first year after transplant	2.32	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.25, 2.03]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.25, 2.03], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 75% reduced risk up to 103% increased risk.



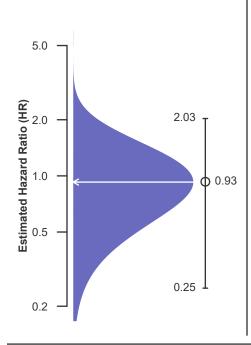
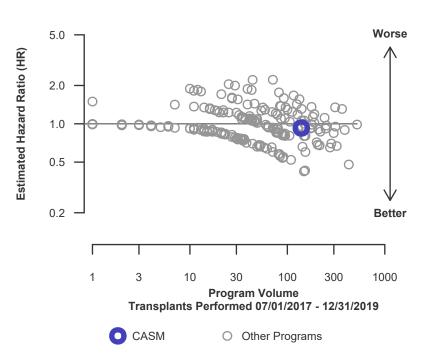


Figure C4L. Adult (18+) 1-year living donor graft failure HR program comparison





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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	800	42,472
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	90.07%	89.69%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.08%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	79	4,352
Number of expected graft failures (including deaths) during the first 3 years after transplant	86.38	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.73, 1.13]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

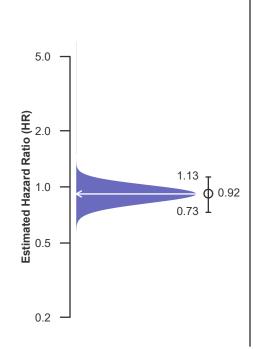
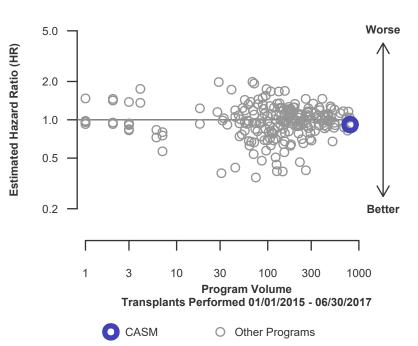


Figure C6. Adult (18+) 3-year graft failure HR program comparison



^{**} The 95% credible interval, [0.73, 1.13], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 27% reduced risk up to 13% increased risk.

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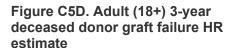
C. Transplant Information

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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	637	29,060
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	88.17%	87.51%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.51%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	75	3,610
Number of expected graft failures (including deaths) during the first 3 years after transplant	78.50	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.75, 1.18]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.75, 1.18], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 4% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 25% reduced risk up to 18% increased risk.



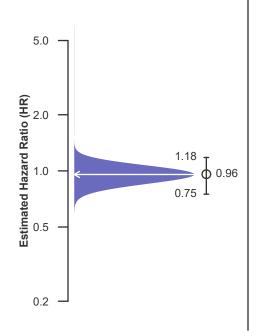
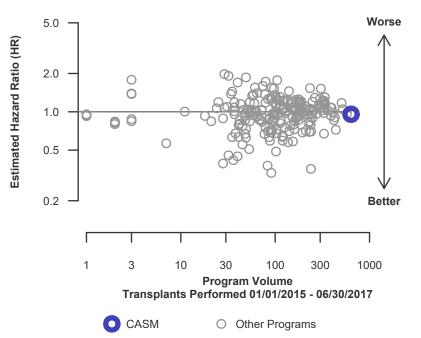


Figure C6D. Adult (18+) 3-year deceased donor graft failure HR program comparison





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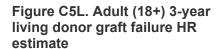
C. Transplant Information

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

Deaths and retransplants are considered graπ failures	CASM	U.S.
Number of transplants evaluated	163	13,412
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	97.55%	94.42%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	95.20%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	4	742
Number of expected graft failures (including deaths) during the first 3 years after transplant	7.88	
Estimated hazard ratio*	0.61	
95% credible interval for the hazard ratio**	[0.22, 1.18]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.22, 1.18], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 39% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 78% reduced risk up to 18% increased risk.



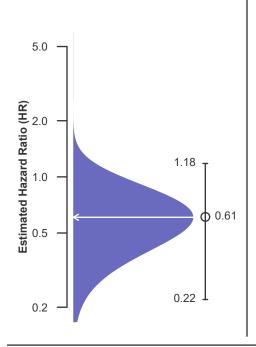
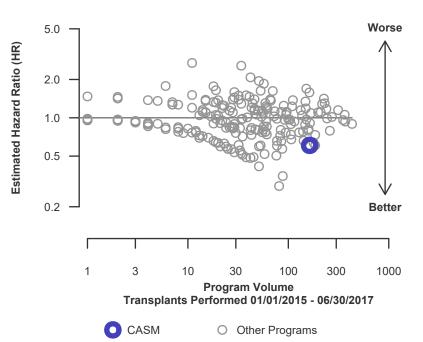


Figure C6L. Adult (18+) 3-year living donor graft failure HR program comparison



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C. Transplant Information

Table C8. Pediatric (<18) 1-month survival with a functioning graft Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	22	2,123
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.92%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.96%	
Number of observed graft failures (including deaths) during the first month after transplant	0	23
Number of expected graft failures (including deaths) during the first month after transplant	0.23	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.50]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

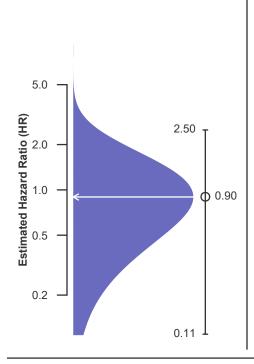
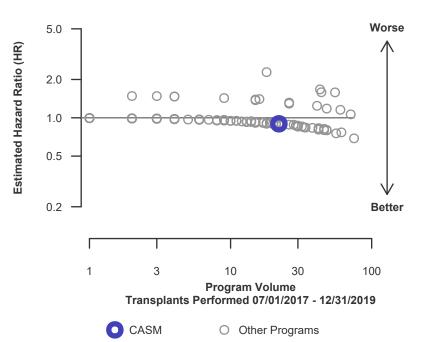


Figure C8. Pediatric (<18) 1-month graft failure HR program comparison



^{**} The 95% credible interval, [0.11, 2.50], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 89% reduced risk up to 150% increased risk.

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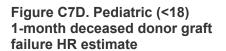
C. Transplant Information

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

Deaths and retransplants are considered grant failures	CASM	U.S.
Number of transplants evaluated	13	1,428
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.74%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.74%	
Number of observed graft failures (including deaths) during the first month after transplant	0	18
Number of expected graft failures (including deaths) during the first month after transplant	0.16	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.57]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.57], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 89% reduced risk up to 157% increased risk.



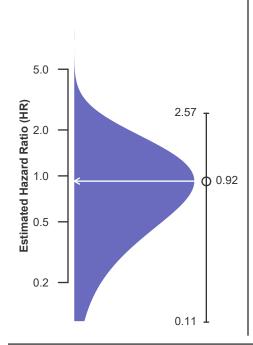
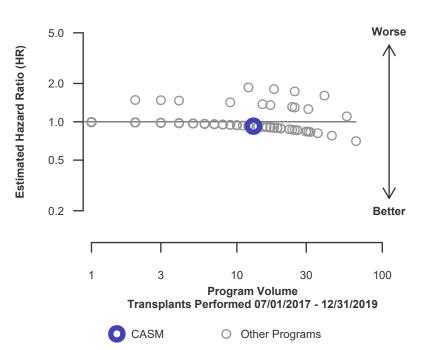


Figure C8D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison



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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 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	9	695
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.28%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.28%	
Number of observed graft failures (including deaths) during the first month after transplant	0	5
Number of expected graft failures (including deaths) during the first month after transplant	0.06	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.70]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



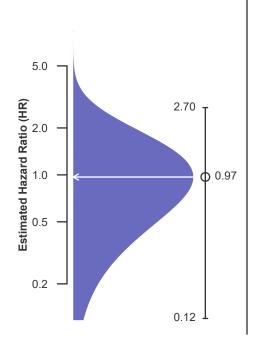
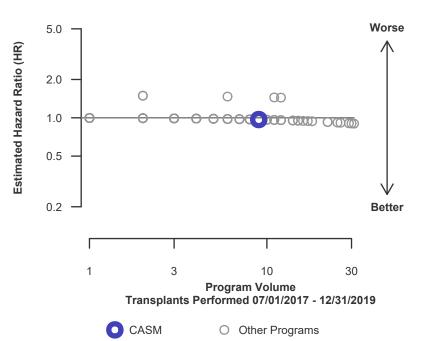


Figure C8L. Pediatric (<18) 1-month living donor graft failure HR program comparison



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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	22	2,123
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.18%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.27%	
Number of observed graft failures (including deaths) during the first year after transplant	0	36
Number of expected graft failures (including deaths) during the first year after transplant	0.34	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.10, 2.38]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

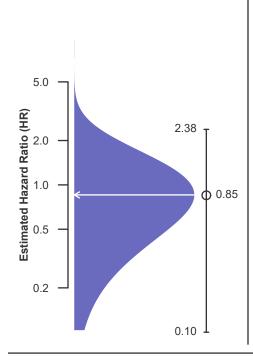
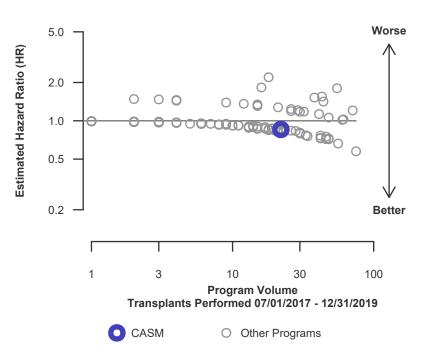


Figure C10. Pediatric (<18) 1-year graft failure HR program comparison



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

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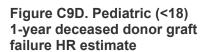
C. Transplant Information

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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	13	1,428
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	97.80%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.80%	
Number of observed graft failures (including deaths) during the first year after transplant	0	29
Number of expected graft failures (including deaths) during the first year after transplant	0.25	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.47]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



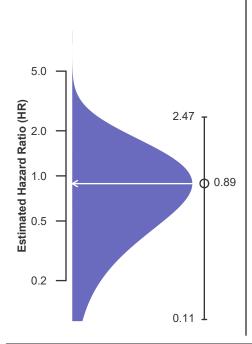
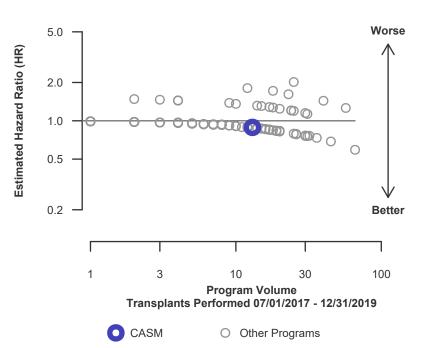


Figure C10D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison



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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 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	9	695
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.95%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	98.95%	
Number of observed graft failures (including deaths) during the first year after transplant	0	7
Number of expected graft failures (including deaths) during the first year after transplant	0.09	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



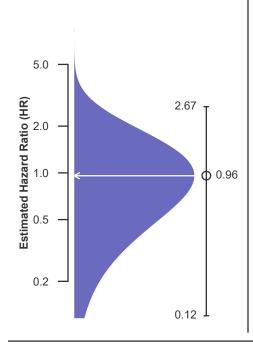
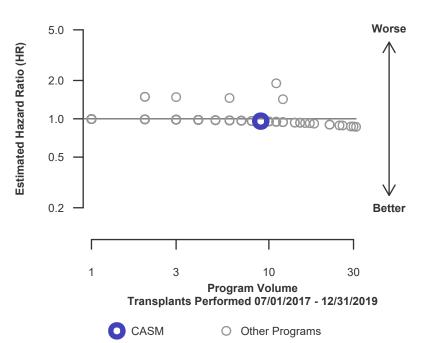


Figure C10L. Pediatric (<18) 1-year living donor graft failure HR program comparison



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

Deaths and retransplants are considered graft failures	CASM	U.S.
Number of transplants evaluated	26	2,049
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	96.15%	93.22%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.88%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	138
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.81	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.16, 1.90]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM'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

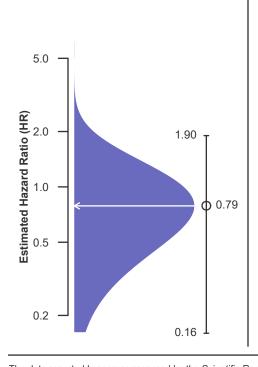
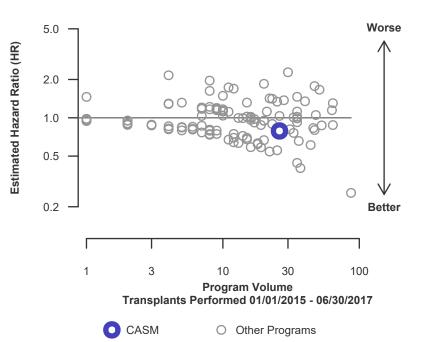


Figure C12. Pediatric (<18) 3-year graft failure HR program comparison



^{**} The 95% credible interval, [0.16, 1.90], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 21% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 84% reduced risk up to 90% increased risk.

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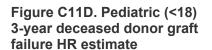
C. Transplant Information

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

CASM	U.S.
16	1,403
93.75%	91.97%
90.96%	
1	112
1.39	
0.88	
[0.18, 2.13]	
	16 93.75% 90.96% 1 1.39 0.88

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.18, 2.13], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 12% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 82% reduced risk up to 113% increased risk.



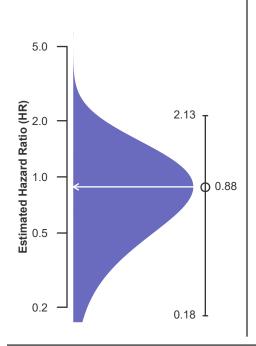
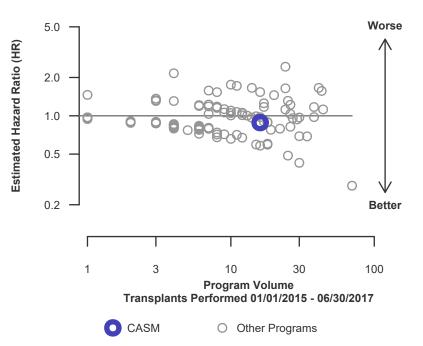


Figure C12D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison



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C. Transplant Information

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

CASM	U.S.
10	646
100.00%	95.96%
95.96%	
0	26
0.41	
0.83	
[0.10, 2.31]	
	10 100.00% 95.96% 0 0.41 0.83

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.31], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but CASM's performance could plausibly range from 90% reduced risk up to 131% increased risk.



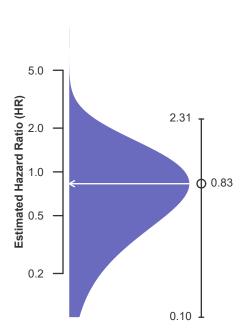
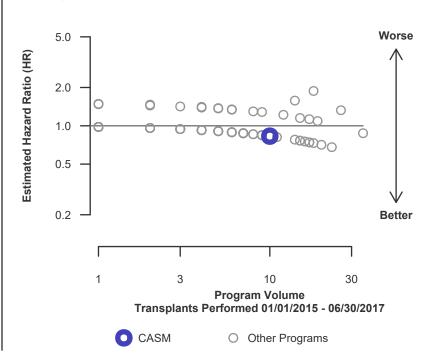


Figure C12L. Pediatric (<18) 3-year living donor graft failure HR program comparison





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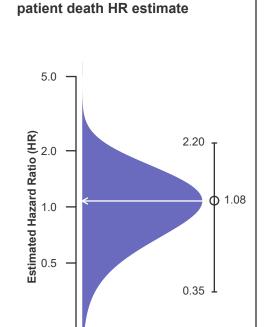
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C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	581	44,658
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.48%	99.56%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.54%	
Number of observed deaths during the first month after transplant	3	198
Number of expected deaths during the first month after transplant	2.65	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.35, 2.20]	

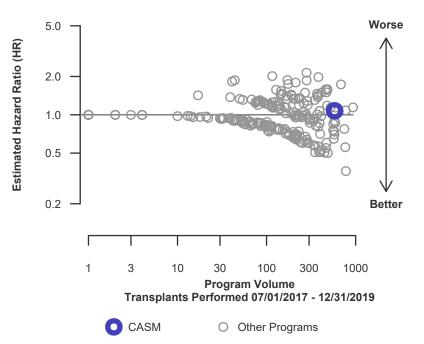
^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of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



0.2

Figure C13. Adult (18+) 1-month





^{**} The 95% credible interval, [0.35, 2.20], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 8% higher risk of patient death compared to an average program, but CASM's performance could plausibly range from 65% reduced risk up to 120% increased risk.



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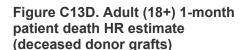
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	449	30,522
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.33%	99.45%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.47%	
Number of observed deaths during the first month after transplant	3	167
Number of expected deaths during the first month after transplant	2.39	
Estimated hazard ratio*	1.14	
95% credible interval for the hazard ratio**	[0.37, 2.33]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.37, 2.33], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 14% higher risk of patient death compared to an average program, but CASM's performance could plausibly range from 63% reduced risk up to 133% increased risk.



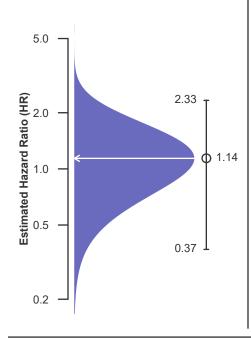
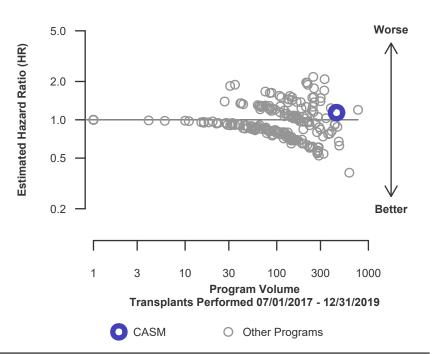


Figure C14D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





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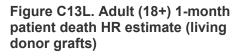
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	132	14,136
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.78%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.81%	
Number of observed deaths during the first month after transplant	0	31
Number of expected deaths during the first month after transplant	0.26	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.47]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



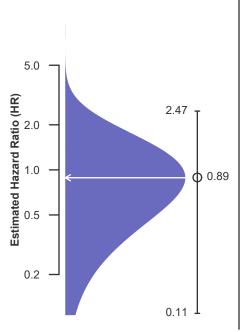
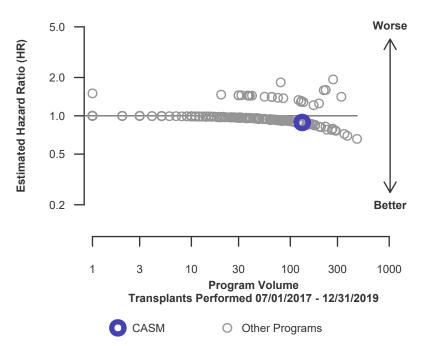


Figure C14L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





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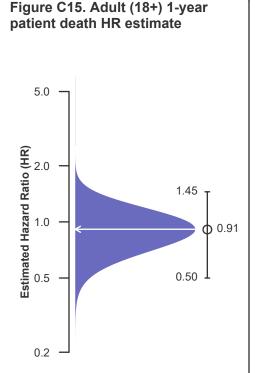
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Table C12. Adult (18+) 1-year patient survival Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

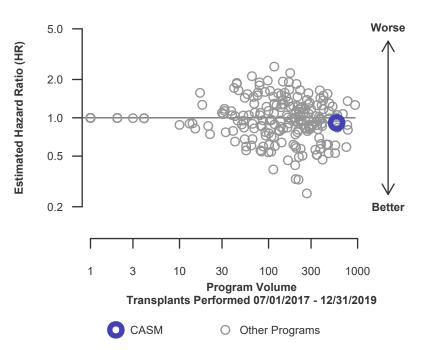
Retransplants excluded	CASM	U.S.
Number of transplants evaluated	581	44,658
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.81%	97.61%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.50%	
Number of observed deaths during the first year after transplant	12	943
Number of expected deaths during the first year after transplant	13.33	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.50, 1.45]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.50, 1.45], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 9% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 50% reduced risk up to 45% increased risk.









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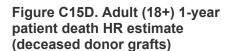
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	449	30,522
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.44%	96.96%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.02%	
Number of observed deaths during the first year after transplant	11	818
Number of expected deaths during the first year after transplant	12.30	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.48, 1.47]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.48, 1.47], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 9% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 52% reduced risk up to 47% increased risk.



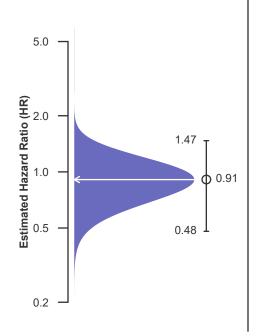
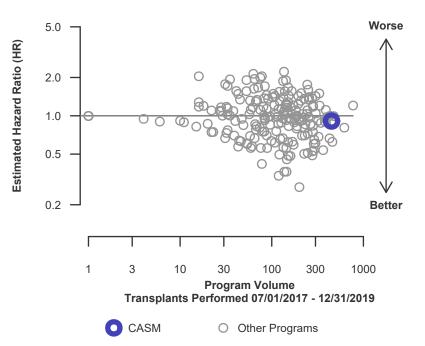


Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





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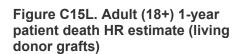
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	132	14,136
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.97%	99.01%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.11%	
Number of observed deaths during the first year after transplant	1	125
Number of expected deaths during the first year after transplant	1.03	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.20, 2.38]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.20, 2.38], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 80% reduced risk up to 138% increased risk.



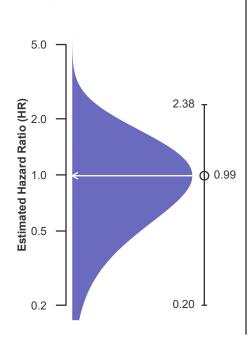
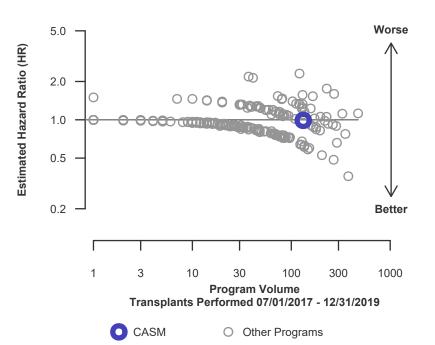


Figure C16L. Adult (18+) 1-year patient death HR program comparison (living donor grafts)





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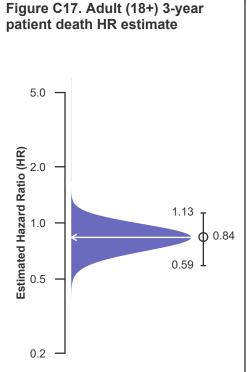
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Table C13. Adult (18+) 3-year patient survival Single organ transplants performed between 01/01/2015 and 06/30/2017 Retransplants excluded

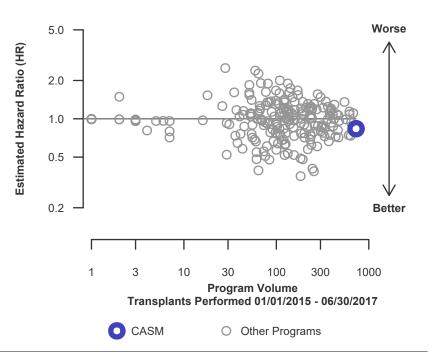
Retransplants excluded	CASM	U.S.
Number of transplants evaluated	728	36,746
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	95.30%	94.00%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.42%	
Number of observed deaths during the first 3 years after transplant	34	2,189
Number of expected deaths during the first 3 years after transplant	41.06	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.59, 1.13]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.59, 1.13], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 16% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 41% reduced risk up to 13% increased risk.









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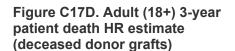
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	572	24,671
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	94.38%	92.54%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.53%	
Number of observed deaths during the first 3 years after transplant	32	1,829
Number of expected deaths during the first 3 years after transplant	37.40	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.60, 1.18]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.60, 1.18], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 14% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 40% reduced risk up to 18% increased risk.



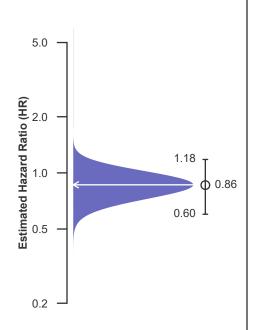
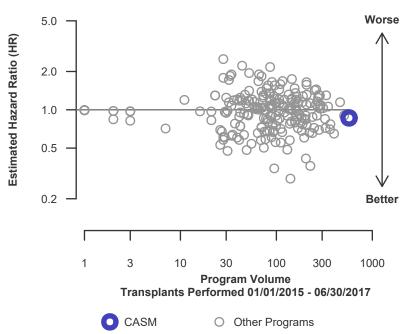


Figure C18D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





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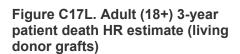
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Table C13L. Adult (18+) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2015 and 06/30/2017 Retransplants excluded

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	156	12,075
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	98.72%	96.99%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	97.65%	
Number of observed deaths during the first 3 years after transplant	2	360
Number of expected deaths during the first 3 years after transplant	3.66	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.19, 1.55]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.19, 1.55], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 29% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 81% reduced risk up to 55% increased risk.



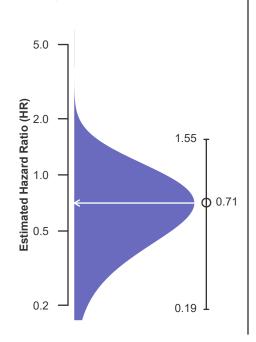
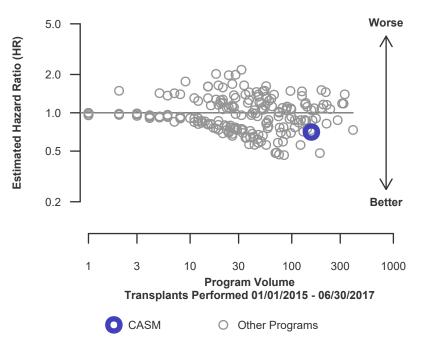


Figure C18L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





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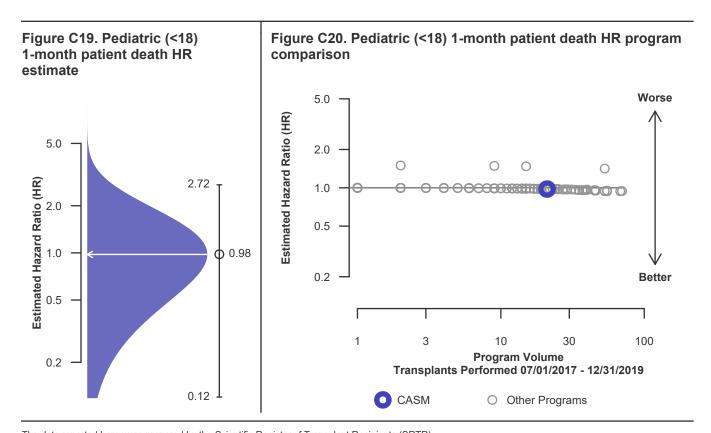
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Table C14. Pediatric (<18) 1-month patient survival Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	21	1,938
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.79%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.78%	
Number of observed deaths during the first month after transplant	0	4
Number of expected deaths during the first month 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 University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





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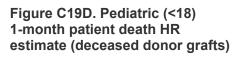
C. Transplant Information

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

Retiansplants excluded	CASM	U.S.
Number of transplants evaluated	12	1,290
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.84%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.85%	
Number of observed deaths during the first month after transplant	0	2
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 University of California Davis Medical Center (CASM)'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 CASM'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 CASM's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 88% reduced risk up to 176% increased risk.



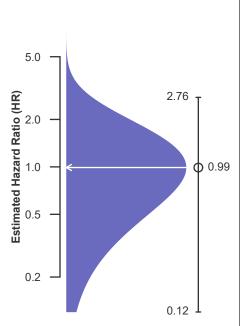
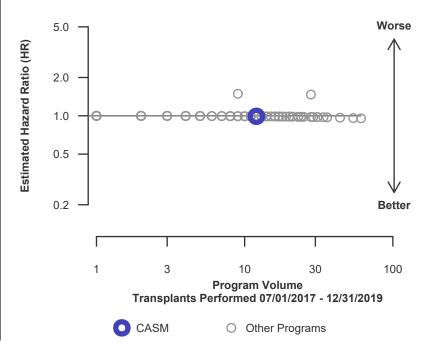


Figure C20D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)





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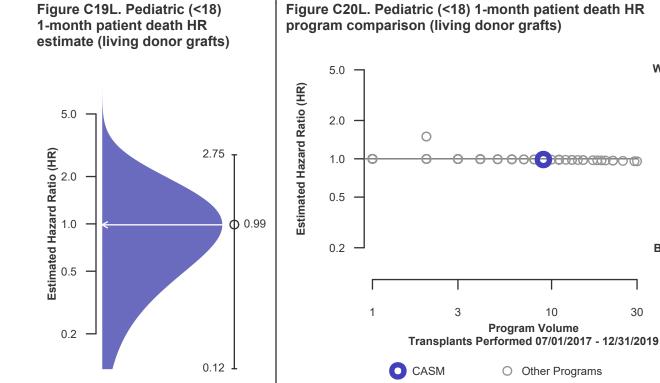
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	9	648
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.69%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.69%	
Number of observed deaths during the first month after transplant	0	2
Number of expected deaths during the first month after transplant	0.03	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.75]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.75], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 88% reduced risk up to 175% increased risk.



Worse

Better

30



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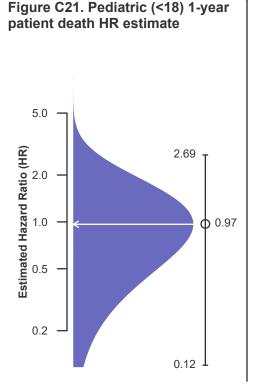
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Table C15. Pediatric (<18) 1-year patient survival Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

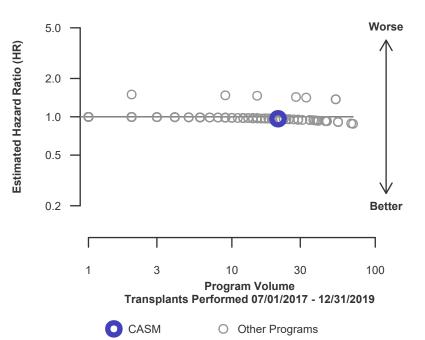
Retransplants excluded	CASM	U.S.
Number of transplants evaluated	21	1,938
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.61%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.62%	
Number of observed deaths during the first year after transplant	0	7
Number of expected 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 University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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









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C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	12	1,290
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.56%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.57%	
Number of observed deaths during the first year after transplant	0	5
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, 2.72]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

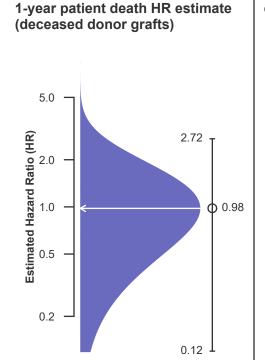
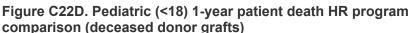
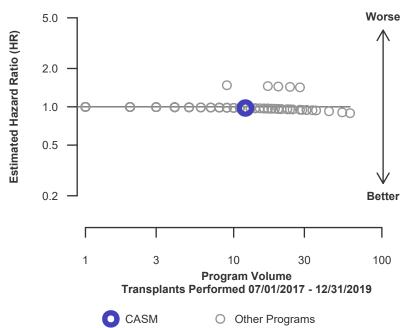


Figure C21D. Pediatric (<18)





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



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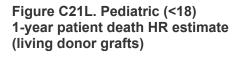
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	9	648
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.69%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.69%	
Number of observed deaths during the first year after transplant	0	2
Number of expected deaths during the first year after transplant	0.03	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.75]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.75], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 1% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 88% reduced risk up to 175% increased risk.



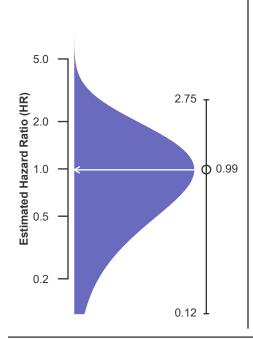
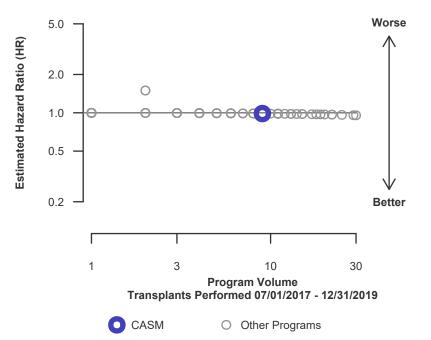


Figure C22L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)





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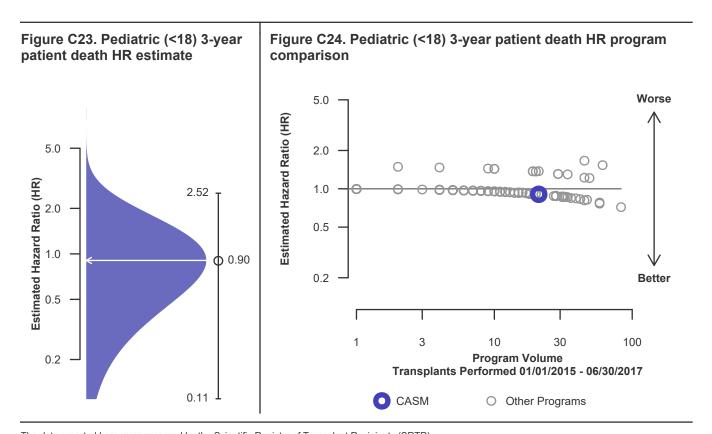
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Table C16. Pediatric (<18) 3-year patient survival Single organ transplants performed between 01/01/2015 and 06/30/2017 Retransplants excluded

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	21	1,841
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.02%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.01%	
Number of observed deaths during the first 3 years after transplant	0	18
Number of expected deaths during the first 3 years after transplant	0.21	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.52]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.52], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 10% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 89% reduced risk up to 152% increased risk.





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C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	13	1,248
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.12%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.12%	
Number of observed deaths during the first 3 years after transplant	0	11
Number of expected deaths during the first 3 years after transplant	0.12	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.11, 2.63]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

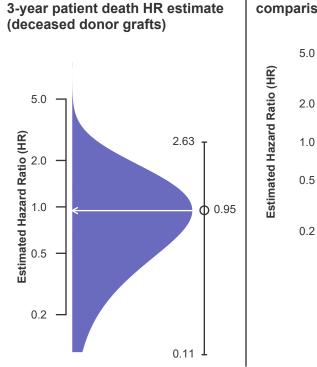
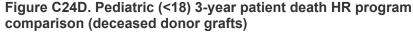
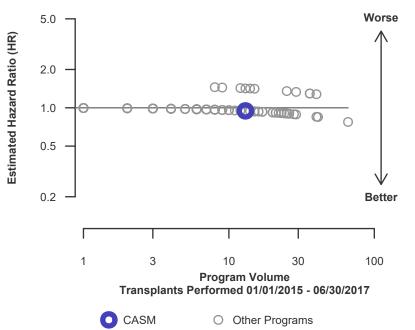


Figure C23D. Pediatric (<18)





^{**} The 95% credible interval, [0.11, 2.63], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 5% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 89% reduced risk up to 163% increased risk.

University of California Davis Medical Center

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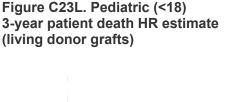
C. Transplant Information

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

Retransplants excluded	CASM	U.S.
Number of transplants evaluated	8	593
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	98.82%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.82%	
Number of observed deaths during the first 3 years after transplant	0	7
Number of expected deaths during the first 3 years after transplant	0.09	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.12, 2.66]	

^{*} The hazard ratio provides an estimate of how University of California Davis Medical Center (CASM)'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 CASM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.66], indicates the location of CASM's true hazard ratio with 95% probability. The best estimate is 5% lower risk of patient death compared to an average program, but CASM's performance could plausibly range from 88% reduced risk up to 166% increased risk.



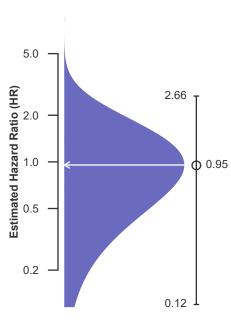
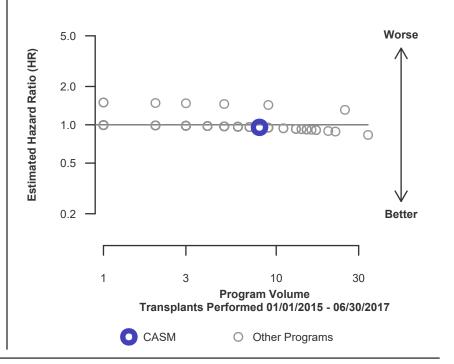


Figure C24L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)





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C. Transplant Information

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

Adult (18+) Transplants First-Year Outcomes

Transplant Type	•	Transplants Performed		Kidney Graft Failures		Estimated Kidney Graft Survival	
	CASM-TX1	USA	CASM-TX1	USA	CASM-TX1	USA	
Kidney-Pancreas	2	2,109	0	76	100.0%	96.2%	

Pediatric (<18) Transplants

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

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

Adult (18+) Transplants First-Year Outcomes

Transplant Type		Transplants Performed		Patient Deaths		Estimated Patient Survival	
	CASM-TX1	USA	CASM-TX1	USA	CASM-TX1	USA	
Kidney-Pancreas	2	2,109	0	46	100.0%	97.6%	

Pediatric (<18) Transplants

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



Center Code: CASM Transplant Program (Organ): Kidney

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D. Living Donor Information

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

	This Center			United States		
Living Donor Follow-Up	07/2017- 06/2018	07/2018- 06/2019	07/2019- 12/2019	07/2017- 06/2018	07/2018- 06/2019	07/2019- 12/2019
Number of Living Donors	49	58	39	6,151	6,685	3,483
6-Month Follow-Up Donors due for follow-up	49	58	39	6,150	6,682	3,468
Timely clinical data	49 100.0%	57 98.3%	37 94.9%	5,395 87.7%	5,832 87.3%	2,529 72.9%
Timely lab data	48 98.0%	57 98.3%	36 92.3%	5,213 84.8%	5,629 84.2%	2,252 64.9%
12-Month Follow-Up Donors due for follow-up	49	58		6,148	6,681	
Timely clinical data	49 100.0%	54 93.1%		5,095 82.9%	5,075 76.0%	
Timely lab data	49 100.0%	53 91.4%		4,818 78.4%	4,562 68.3%	
24-Month Follow-Up Donors due for follow-up	49			6,147		
Timely clinical data	45 91.8%			4,134 67.3%		
Timely lab data	43 87.8%			3,575 58.2%		

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