

Center Code: CASF Transplant Program (Organ): Kidney Release Date: January 5, 2023

Based on Data Available: October 31, 2022

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COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

The Scientific Registry of Transplant Recipients (SRTR), under contract from the Health Resources and Services Administration (HRSA), is charged with evaluating the performance of the nation's transplant system through publication of semi-annual transplant program-specific reports (PSRs) and organ procurement organization (OPO)-specific reports (OSRs). These reports contain performance metrics covering various time periods. For OPOs, these metrics include eligible death conversion rates and deceased donor organ yield. For transplant programs, they include pre-transplant mortality rates (formerly called waitlist mortality rates), transplant rates, organ offer acceptance rates, patient mortality after listing, and 1-month, 90-day, 1-year, 1-year conditional on 90-day, and 3-year posttransplant outcomes including graft survival and patient survival.

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021, July 2021, January 2022 and July 2022. These reports made adjustments to transplant program and OPO performance metrics so that data beyond the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the January 2023 reporting cycle were considered at the Analytic Methods Subcommittee of the SRTR Review Committee (SRC) at its meeting on March 24, 2021, and the full SRC meetings April 27, 2021 and on January 11, 2022. Both the Analytic Methods Subcommittee and the full SRC recommended an ongoing carve out of the first quarter of the pandemic (March 13, 2020 through June 12, 2020) from adjusted performance metrics, as detailed below. These recommendations were reviewed by HRSA's Division of Transplantation, which oversees SRTR. HRSA approved these recommendations, which SRTR will implement for the January 2023 reporting cycle. These changes will remain in force beyond the January 2023 reporting cycle, unless otherwise amended:

Posttransplant Outcomes (including 1-month, 90-day, 1-year, 1-year conditional on 90-day, and 3-year graft and patient survival): Evaluation cohorts will exclude transplants performed between March 13, 2020 and June 12, 2020, inclusive of March 13 and June 12. Patients given transplants before March 13, 2020 will have follow-up censored on March 12, 2020. Patients given transplants after June 12, 2020 will resume normal follow-up. Follow-up will not resume for patients given transplants before March 13, 2020 who are alive with function on June 12, 2020; however, this may be reconsidered as SRTR continues to explore moving to a period-prevalent methodology:

1-month, 90-day, 1-year & 1-year conditional on 90-day Patient and Graft Survival Evaluations: Transplants 7/1/2019-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2021, follow-up through 6/30/2022.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2017-6/30/2019; follow-up through 3/12/2020.

Pre-Transplant Mortality Rate (formerly called Waitlist Mortality Rate): These evaluations are based on normal reporting cohorts.



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Days after listing (and before transplant) between 7/1/2020 and 6/30/2022.

Transplant Rate: These evaluations are based on normal reporting cohorts.

Candidates on the waitlist 7/1/2020-6/30/2022.

Overall Rate of Mortality After Listing: These evaluations are based on normal reporting cohorts.

Evaluation period: 7/1/2020-6/30/2022.

Offer Acceptance Rate: These evaluations are based on normal reporting cohorts.

Offers received 1/1/2021-12/31/2021.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 6, 2023. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for July 2023.

As with the July 2022 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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

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

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

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

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

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



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 8.8 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 pre-transplant mortality rate (previously called the waiting list 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 pre-transplant 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 07/01/2016 and 12/31/2021. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 6 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2022 to calculate a particular percentile of transplant times.

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



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of offers.

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

Starting with Table C5, transplant outcomes are presented along with comparisons to what would be expected at this program and what happened in the nation as a whole. Tables C5-C14 (tables C5-C10 for Pancreas) 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-C14 present data on graft survival, Tables C15-C20 (tables C11-C20 for Pancreas) 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 C21 and C22 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

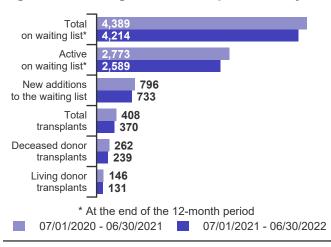


Table A1. Census of transplant recipients

Recipients	07/01/2020- 06/30/2021	07/01/2021- 06/30/2022
Transplanted at this center	408	370
Followed by this center*	3,550	3,513
transplanted at this program	n 3,503	3,463
transplanted elsewhere	47	50

^{*} 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 07/01/2020 - 06/30/2022

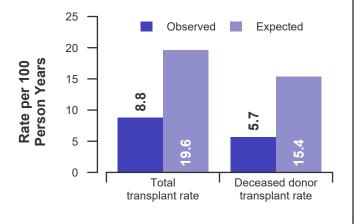


Figure A3. Pre-transplant mortality rates 07/01/2020 - 06/30/2022

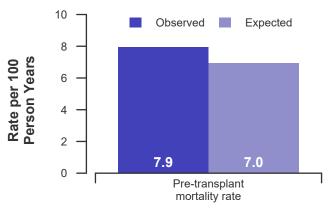


Figure A4. First-year adult graft and patient survival: 07/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2021

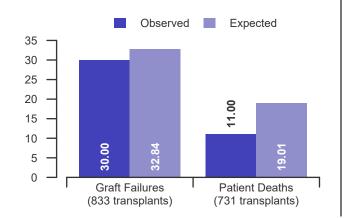
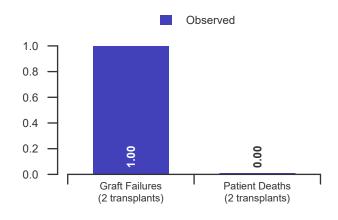


Figure A5. First-year pediatric graft & patient survival: 07/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2021





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Table B1. Waiting list activity summary: 07/01/2020 - 06/30/2022

		its for center	Activity for 07/01/2021 to 06/30/2022 as percent of registrants on waiting list on 07/01/2021			
Waiting List Registrations	07/01/2020- 06/30/2021	07/01/2021- 06/30/2022	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	4,636	4,389	100.0	100.0	100.0	
New listings at this center	796	733	16.7	32.3	44.5	
Removals						
Transferred to another center	16	8	0.2	0.6	0.9	
Received living donor transplant*	144	128	2.9	4.0	6.0	
Received deceased donor transplant*	262	239	5.4	14.6	19.3	
Died	352	292	6.7	5.1	4.9	
Transplanted at another center	101	58	1.3	2.3	4.0	
Deteriorated	76	80	1.8	2.9	4.5	
Recovered	0	2	0.0	0.1	0.3	
Other reasons	92	101	2.3	3.9	5.1	
On waiting list at end of period	4,389	4,214	96.0	98.8	99.5	

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



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2021 and 06/30/2022

Domographia Characteristic		ting List Regi 021 to 06/30/2		All Waiting List Registrations on 06/30/2022 (%)			
Demographic Characteristic	This Center (N=733)	OPTN Region (N=6,910)	U.S. (N=42,769)	This Center (N=4,214)	OPTN Region (N=21,143)	U.S. (N=95,651)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	26.3	29.3	41.0	20.0	21.9	35.6	
African-American	10.1	9.2	29.5	13.5	10.4	31.5	
Hispanic/Latino	32.7	39.4	19.3	33.1	42.9	21.0	
Asian	28.4	18.9	8.6	31.2	21.8	10.1	
Other	2.5	3.2	1.6	2.2	3.0	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	0.0	1.0	0.9	0.0	0.7	0.6	
12-17 years	0.0	1.8	1.5	0.5	1.4	1.1	
18-34 years	11.7	11.8	10.3	10.6	11.4	9.8	
35-49 years	27.4	24.7	24.3	26.2	27.4	26.4	
50-64 years	45.8	40.8	41.0	48.7	43.8	43.4	
65-69 years	12.6	13.0	13.3	13.2	11.3	12.4	
70+ years	2.5	6.8	8.6	0.7	3.8	6.2	
Gender (%)							
Male	60.2	61.1	61.9	62.1	62.3	62.0	
Female	39.8	38.9	38.1	37.9	37.7	38.0	

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



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Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2021 and 06/30/2022

Medical Characteristic		iting List Regis		All Waiting List Registrations on 06/30/2022 (%)			
Medical Characteristic		OPTN Region	U.S.		OPTN Region	U.S.	
	(N=733)	(N=6,910)	(N=42,769)	(N=4,214)	(N=21,143)	(N=95,651)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	49.0	50.7	49.1	50.8	56.1	54.2	
A	31.0	31.7	32.0	27.4	26.8	26.9	
В	15.8	13.9	15.1	18.2	14.5	16.4	
AB	4.2	3.7	3.8	3.5	2.5	2.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	11.5	10.7	12.2	9.8	10.1	13.5	
No	88.5	89.3	87.8	90.2	89.9	86.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Initial CPRA (%)							
0-9%	75.0	81.3	78.2	75.5	81.2	79.3	
10-79%	14.6	12.0	14.1	17.8	12.9	13.5	
80+%	10.4	6.8	7.6	6.8	5.9	7.1	
Unknown	0.0	0.0	0.1	0.0	0.1	0.1	
Primary Disease (%)*							
Glomerular Diseases	20.3	19.6	18.4	19.4	18.9	18.4	
Tubular and Interstitial Diseases	3.0	3.4	3.8	3.4	3.0	3.7	
Polycystic Kidneys	7.2	6.4	7.1	5.1	5.7	6.9	
Congenital, Familial, Metabolic	1.9	2.4	2.0	1.4	2.0	1.9	
Diabetes	38.2	36.9	34.7	44.3	41.8	36.9	
Renovascular & Vascular Disease	s 0.1	0.1	0.1	0.1	0.1	0.1	
Neoplasms	0.0	0.3	0.4	0.2	0.2	0.4	
Hypertensive Nephrosclerosis	13.5	13.9	20.2	17.3	14.8	20.7	
Other	14.6	16.7	12.8	7.7	12.9	10.7	
Missing*	1.1	0.5	0.4	1.0	0.5	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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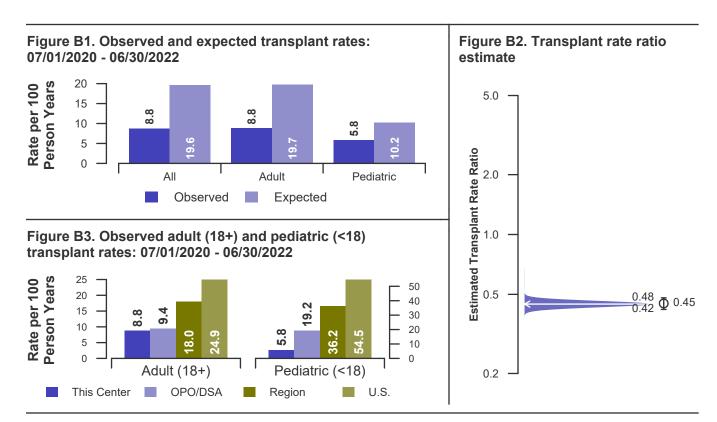
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Table B4. Transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	4,630	8,469	22,247	98,911
Person Years**	8,825.2	16,384.0	42,902.0	192,671.6
Removals for Transplant	773	1,589	7,872	48,952
Adult (18+) Candidates				
Count on waiting list at start*	4,600	8,267	21,812	97,259
Person Years**	8,773.1	15,945.6	42,000.3	189,305.8
Removals for transpant	770	1,505	7,546	47,119
Pediatric (<18) Candidates				
Count on waiting list at start*	30	202	435	1,652
Person Years**	52.0	438.4	901.7	3,365.8
Removals for transplant	3	84	326	1,833

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

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





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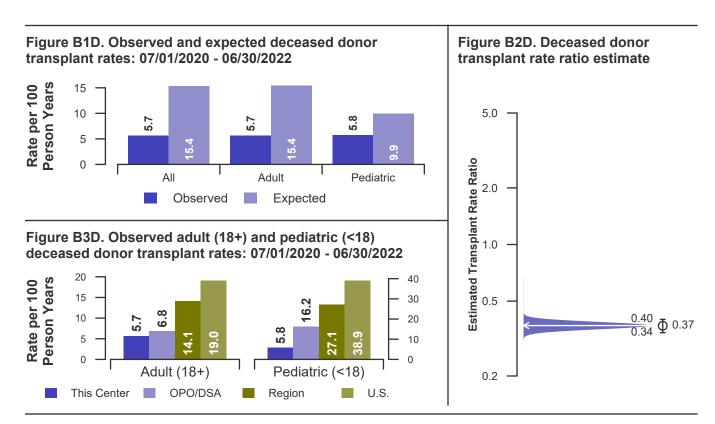
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Table B4D. Deceased donor transplant rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	4,630	8,469	22,247	98,911
Person Years**	8,825.2	16,384.0	42,902.0	192,671.6
Removals for Transplant	501	1,159	6,180	37,313
Adult (18+) Candidates				
Count on waiting list at start*	4,600	8,267	21,812	97,259
Person Years**	8,773.1	15,945.6	42,000.3	189,305.8
Removals for transpant	498	1,088	5,936	36,003
Pediatric (<18) Candidates				
Count on waiting list at start*	30	202	435	1,652
Person Years**	52.0	438.4	901.7	3,365.8
Removals for transplant	3	71	244	1,310

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

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





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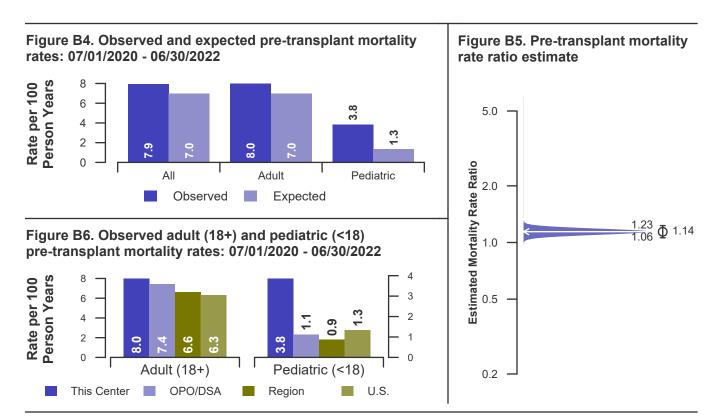
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Table B5. Pre-transplant mortality rates: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	4,630	8,469	22,247	98,911
Person Years**	9,107.3	17,014.7	45,255.2	207,100.8
Number of deaths	723	1,232	2,946	12,865
Adult (18+) Candidates				
Count on waiting list at start*	4,600	8,267	21,812	97,259
Person Years**	9,055.3	16,566.1	44,326.5	203,641.1
Number of deaths	721	1,227	2,938	12,819
Pediatric (<18) Candidates				
Count on waiting list at start*	30	202	435	1,652
Person Years**	52.0	448.6	928.7	3,459.7
Number of deaths	2	5	8	46

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

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





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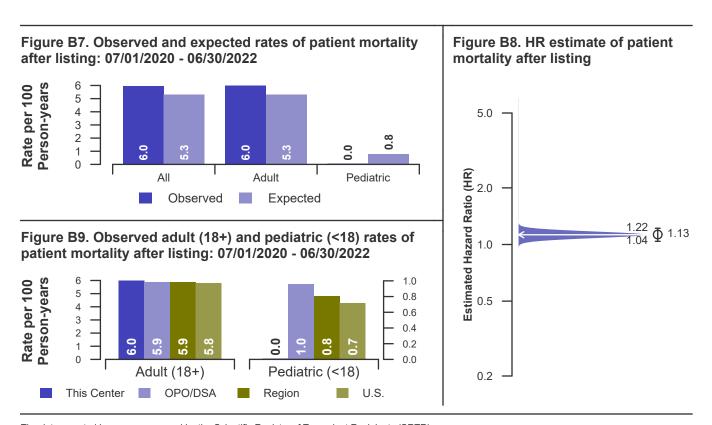
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Table B6. Rates of patient mortality after listing: 07/01/2020 - 06/30/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	6,902	14,341	53,438	308,733
Person-years*	10,468.1	21,648.0	79,200.6	456,501.7
Number of Deaths	624	1,222	4,514	25,813
Adult (18+) Patients				
Count at risk during the evaluation period	6,876	13,729	51,655	299,715
Person-years*	10,449.6	20,708.6	76,458.4	442,501.8
Number of Deaths	624	1,213	4,492	25,713
Pediatric (<18) Patients				
Count at risk during the evaluation period	26	612	1,783	9,018
Person-years*	18.5	939.4	2,742.1	13,999.8
Number of Deaths	0	9	22	100

^{*} Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2020, or from the date of first wait listing until death, reaching 7 years after listing or June 30, 2022.

^{**} 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 01/01/2020 and 12/31/2020

Waiting list status (survival status)		Center (National Control of Contr	,	U.S. (N=37,655) Months Since Listing 6 12 18			
Alive on waiting list (%)	92.0	85.6	78.8	75.0	61.1	51.0	
Died on the waiting list without transplant (%)	1.6	3.5	5.1	1.6	2.9	4.0	
Removed without transplant (%):							
Condition worsened (status unknown)	0.4	0.7	0.9	0.6	1.5	2.5	
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.2	0.3	
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.1	
Other	0.6	0.7	1.4	0.7	1.4	2.5	
Transplant (living donor from waiting list only) (%	6) :						
Functioning (alive)	1.6	4.1	5.2	5.1	8.3	6.7	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0	
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0	
Died	0.0	0.0	0.0	0.0	0.1	0.2	
Status Yet Unknown**	0.1	0.2	1.9	0.1	0.4	3.8	
Transplant (deceased donor) (%):							
Functioning (alive)	2.8	3.7	3.5	14.3	18.5	14.4	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0	
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.1	0.1	
Died	0.0	0.0	0.1	0.4	0.8	1.3	
Status Yet Unknown*	0.7	1.1	2.8	1.8	4.1	12.4	
Lost or Transferred (status unknown) (%)	0.1	0.4	0.5	0.2	0.5	0.7	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	1.6	3.5	5.2	2.0	3.8	5.5	
Total % known died or removed as unstable	2.0	4.2	6.0	2.6	5.3	8.0	
Total % removed for transplant	5.3	9.1	13.5	21.8	32.3	38.9	
Total % with known functioning transplant (alive)	4.4	7.8	8.6	19.4	26.8	21.1	

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



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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2016 and 06/30/2019

		Percent transplanted at time periods since listing								
Characteristic		TI	nis Cen	ter			Un	ited Sta	ites	
	N	30 day	1 year	2 years 3	3 years	N	30 day	1 year	2 years	3 years
All	2,410	1.5	5.8	9.0	11.5	99,014	4.5	19.1	26.6	32.4
Ethnicity/Race*										
White	531	3.6	10.4	12.4	14.5	38,757	4.5	19.8	27.4	33.3
African-American	295	0.3	6.4	11.9	15.3	30,664	4.9	19.7	27.3	33.2
Hispanic/Latino	763	2.0	5.8	9.3	12.1	19,262	4.7	18.8	25.7	31.6
Asian	758	0.1	2.5	5.0	6.9	8,454	2.6	13.4	20.7	26.6
Other	63	0.0	4.8	11.1	15.9	1,877	5.7	23.4	31.8	36.9
Unknown	0					0				
Age										
<2 years	0					116	6.0	42.2	62.1	75.0
2-11 years	0					830	8.1	49.4	64.5	72.9
12-17 years	0					1,436	7.3	48.0	60.3	65.9
18-34 years	233	2.1	6.4	9.4	12.9	9,760	4.6	20.9	30.0	37.9
35-49 years	582	1.5	6.2	10.8	13.9	24,503	4.3	18.5	26.2	32.5
50-64 years	1,204	1.2	5.5	8.0	10.1	42,136	4.5	17.6	24.5	30.1
65-69 years	364	1.1	4.4	7.4	9.3	13,349	4.4	17.8	24.7	29.8
70+ years	27	14.8	25.9	33.3	33.3	6,884	4.4	20.0	26.8	31.4
Gender										
Male	1,525	1.6	5.0	7.6	9.7	61,328	4.7	18.4	25.5	31.1
Female	885	1.2	7.2	11.4	14.5	37,686	4.3	20.2	28.3	34.5

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



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B. Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 07/01/2016 and 06/30/2019

Characteristic	Percent transplanted at time periods since listing This Center United States									
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	2,410	1.5	5.8	9.0	11.5	99,014	4.5	19.1	26.6	32.4
Blood Type										
0	1,198	1.5	5.6	8.4	10.9	49,345	4.2	16.5	22.8	28.1
A	705	1.6	6.2	9.9	12.3	30,856	5.4	22.6	31.7	38.5
В	414	1.4	5.1	8.2	10.1	15,097	3.0	16.3	23.3	28.8
AB	93	1.1	8.6	12.9	18.3	3,716	7.9	36.1	47.1	53.6
Previous Transplant										
Yes	251	1.6	10.8	16.7	22.7	13,227	3.0	18.8	27.0	32.9
No	2,159	1.5	5.2	8.1	10.1	85,787	4.8	19.1	26.5	32.4
Peak PRA/CPRA										
0-9%	1,669	1.7	4.6	6.5	7.8	77,957	4.8	18.5	25.6	31.5
10-79%	495	1.0	5.5	9.3	11.9	12,581	3.8	18.2	26.1	32.0
80+%	246	1.2	15.0	25.6	35.0	8,423	3.1	26.2	36.2	42.0
Unknown	0					2	100.0	100.0	100.0	100.0
Primary Disease*										
Glomerular Diseases	407	1.0	8.4	12.3	15.0	18,257	3.7	20.2	29.1	36.1
Tubular & Interstitial Diseases	89	6.7	15.7	16.9	19.1	3,841	5.4	21.5	28.5	34.6
Polycystic Kidneys	124	0.0	8.9	12.1	19.4	6,544	3.3	18.3	27.5	35.0
Congenital, Familial, Metabolic	22	4.5	9.1	13.6	18.2	1,928	5.9	30.7	41.0	49.2
Diabetes	1,111	0.4	1.8	4.1	5.1	36,174	3.2	14.6	20.6	25.4
Renovascular & Vascular Diseases	3	0.0	0.0	33.3	33.3	161	3.7	19.9	28.6	35.4
Neoplasms	9	0.0	0.0	11.1	11.1	342	8.8	26.9	35.4	39.2
Hypertensive Nephrosclerosis	419	1.2	5.7	10.7	14.3	20,175	4.9	19.8	27.7	34.1
Other	207	7.7	16.9	19.8	23.2	11,256	9.2	28.1	35.8	40.9
Missing*	19	0.0	0.0	5.3	15.8	336	1.8	8.6	14.9	20.8

^{*} 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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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 07/01/2016 and 12/31/2021

	Months to Transplant**			
Percentile	Center	OPO/DSA	Region	U.S.
5th	6	5	0.9	0.7
10th	11.9	9.9	2.8	2
25th	37.2	32.6	12.2	8.2
50th (median time to transplant)	Not Observed	Not Observed	59.4	34.4
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 06/30/2022. 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: 07/01/2021 - 06/30/2022

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	86,970	96,428	540,159	2,870,054
Number of Acceptances	210	520	2,865	17,367
Expected Acceptances	269.7	466.2	2,430.6	17,348.8
Offer Acceptance Ratio*	0.78	1.12	1.18	1.00
95% Credible Interval**	[0.68, 0.89]			
Low-KDRI Donors (KDRI < 1.05)				
Number of Offers	13,667	15,816	66,452	344,510
Number of Acceptances	76	206	977	5,712
Expected Acceptances	72.7	177.6	844.0	5,696.5
Offer Acceptance Ratio*	1.04	1.16	1.16	1.00
95% Credible Interval**	[0.83, 1.29]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)				
Number of Offers	67,119	73,012	381,351	2,002,947
Number of Acceptances	117	260	1,544	9,758
Expected Acceptances	174.2	249.9	1,304.9	9,757.8
Offer Acceptance Ratio*	0.68	1.04	1.18	1.00
95% Credible Interval**	[0.56, 0.80]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	6,184	7,600	92,356	522,597
Number of Acceptances	17	54	344	1,897
Expected Acceptances	22.7	38.7	281.7	1,894.5
Offer Acceptance Ratio*	0.77	1.38	1.22	1.00
95% Credible Interval**	[0.46, 1.15]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	82,023	88,655	495,045	2,487,183
Number of Acceptances	4	55	512	3,182
Expected Acceptances	95.3	104.9	562.4	3,212.4
Offer Acceptance Ratio*	0.06	0.53	0.91	0.99
95% Credible Interval**	[0.02, 0.12]			

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

** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.68, 0.89], indicates the location of CASF's true offer acceptance ratio with 95% probability. The best estimate is 22% less likely to accept an offer compared to national acceptance behavior, but CASF's performance could plausibly range from 32% reduced acceptance up to 11% reduced acceptance.



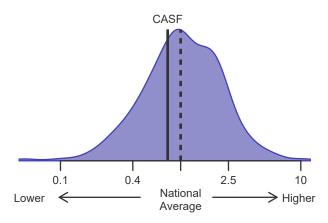
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Figure B10. Offer acceptance: Overall

Figure B11. Offer acceptance: Low-KDRI



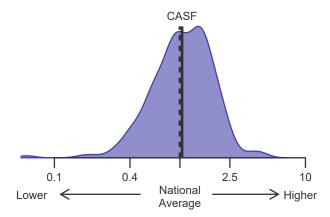
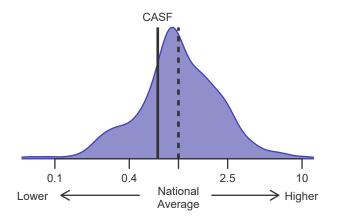


Figure B12. Offer acceptance: Medium-KDRI

Figure B13. Offer acceptance: High-KDRI



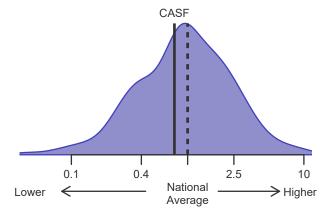
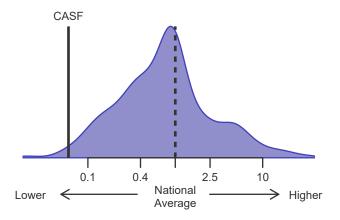


Figure B14. Offer acceptance: Offer number > 100





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C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category			
Characteristic	Center (N=239)	Region (N=3,127)	U.S. (N=18,602)		
Ethnicity/Race (%)*					
White	18.0	25.8	35.2		
African-American	13.4	10.3	33.6		
Hispanic/Latino	38.1	43.9	20.9		
Asian	28.5	16.9	8.5		
Other	2.1	3.2	1.7		
Unknown	0.0	0.0	0.0		
Age (%)					
<2 years	0.0	0.0	0.0		
2-11 years	0.0	1.0	1.1		
12-17	0.0	2.2	1.6		
18-34	12.1	12.3	10.3		
35-49 years	23.0	22.9	24.0		
50-64 years	42.3	39.2	40.1		
65-69 years	13.8	13.3	13.0		
70+ years	8.8	9.0	9.8		
Gender (%)					
Male	58.6	59.4	60.7		
Female	41.4	40.6	39.3		

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



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C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 07/01/2021 and 06/30/2022

Characteristic	Percer	Percentage in each category		
	Center	Region	U.S.	
	(N=131)	(N=869)	(N=5,871)	
Ethnicity/Race (%)*				
White	42.0	48.8	61.4	
African-American	4.6	5.9	13.5	
Hispanic/Latino	22.9	28.9	16.9	
Asian	28.2	13.9	6.8	
Other	2.3	2.5	1.4	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.1	0.3	
2-11 years	0.0	2.0	1.8	
12-17	0.0	2.0	1.6	
18-34	14.5	16.8	15.7	
35-49 years	24.4	27.3	26.3	
50-64 years	34.4	33.6	34.3	
65-69 years	13.7	10.2	10.7	
70+ years	13.0	8.1	9.4	
Gender (%)				
Male	58.0	59.8	62.2	
Female	42.0	40.2	37.8	

^{*} 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 07/01/2021 and 06/30/2022

	Percentage in each category		
Characteristic	Center (N=239)	Region (N=3,127)	U.S. (N=18,602)
Blood Type (%)			
0	51.5	49.4	46.6
A	28.0	31.8	34.2
В	15.5	14.9	14.7
AB	5.0	3.8	4.5
Previous Transplant (%)			
Yes	17.6	13.1	12.8
No	82.4	86.9	87.2
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	49.4	62.0	59.8
10-79%	24.3	21.2	22.3
80+ %	26.4	16.9	17.9
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	11.3	11.8	9.1
21-25	31.4	32.5	27.0
26-30	34.7	31.1	30.9
31-35	18.4	17.7	20.9
36-40	4.2	5.1	8.4
41+	0.0	0.7	1.5
Unknown	0.0	1.2	2.1
Primary Disease (%)*			
Glomerular Diseases	25.5	23.7	20.8
Tubular and Interstitial Disease	4.6	3.7	3.8
Polycystic Kidneys	5.0	6.5	6.7
Congenital, Familial, Metabolic	1.7	3.5	2.6
Diabetes	23.8	30.6	29.8
Renovascular & Vascular Diseases	0.0	0.1	0.1
Neoplasms	0.8	0.5	0.4
Hypertensive Nephrosclerosis	23.4	15.8	23.4
Other Kidney	13.8	15.0	12.0
Missing*	1.3	0.5	0.3

^{*} 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 07/01/2021 and 06/30/2022

	Percentage in each category		
Characteristic	Center (N=131)	Region (N=869)	U.S. (N=5,871)
Blood Type (%)			
0	42.0	45.5	43.5
A	33.6	35.8	37.6
В	17.6	13.5	14.0
AB	6.9	5.3	4.8
Previous Transplant (%)			
Yes	12.2	9.0	9.7
No	87.8	91.0	90.3
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	64.1	74.2	73.8
10-79%	27.5	22.2	21.8
80+ %	8.4	3.6	4.3
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	19.8	16.7	12.3
21-25	37.4	32.7	29.4
26-30	24.4	27.8	29.1
31-35	16.0	18.5	20.6
36-40	1.5	3.1	6.5
41+	0.8	0.7	1.1
Unknown	0.0	0.5	0.9
Primary Disease (%)*			
Glomerular Diseases	29.0	33.8	29.1
Tubular and Interstitial Disease	3.1	3.5	4.4
Polycystic Kidneys	9.9	12.2	11.8
Congenital, Familial, Metabolic	0.8	3.5	3.7
Diabetes	30.5	23.4	24.1
Renovascular & Vascular Diseases	0.0	0.1	0.2
Neoplasms	0.0	0.5	0.6
Hypertensive Nephrosclerosis	13.7	11.9	16.1
Other Kidney	11.5	10.6	9.6
Missing*	1.5	0.7	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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C. Transplant Information

Table C3D. Deceased donor characteristics
Transplants performed between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Donor Characteristic	Center (N=239)	Region (N=3,127)	U.S. (N=18,602)	
Cause of Death (%)				
Deceased: Stroke	28.5	23.4	21.1	
Deceased: MVA	16.3	13.5	13.7	
Deceased: Other	55.2	63.1	65.2	
Ethnicity/Race (%)*				
White	47.7	51.4	66.5	
African-American	10.0	9.0	13.9	
Hispanic/Latino	30.5	30.9	15.7	
Asian	7.9	5.7	2.5	
Other	3.8	3.1	1.4	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	0.4	1.6	0.8	
2-11 years	1.3	2.6	2.4	
12-17	3.3	3.9	3.8	
18-34	26.8	32.1	31.1	
35-49 years	41.8	31.8	34.9	
50-64 years	24.3	25.0	24.6	
65-69 years	1.7	2.6	2.1	
70+ years	0.4	0.4	0.3	
Gender (%)				
Male	64.0	68.0	64.7	
Female	36.0	32.0	35.3	
Blood Type (%)				
0	54.8	51.6	48.4	
A	30.1	33.7	36.7	
В	12.6	11.6	11.5	
AB	2.5	3.1	3.3	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C3L. Living donor characteristics
Transplants performed between 07/01/2021 and 06/30/2022

	Percer	Percentage in each category		
Donor Characteristic	Center (N=131)	Region (N=869)	U.S. (N=5,871)	
Ethnicity/Race (%)*				
White	58.0	58.3	69.4	
African-American	2.3	4.4	8.3	
Hispanic/Latino	20.6	26.8	15.8	
Asian	16.8	8.5	4.7	
Other	2.3	2.0	1.9	
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	25.2	24.6	26.3	
35-49 years	36.6	39.4	39.4	
50-64 years	30.5	30.6	28.5	
65-69 years	3.1	3.8	4.4	
70+ years	4.6	1.6	1.3	
Gender (%)				
Male	45.0	36.9	36.3	
Female	55.0	63.1	63.7	
Blood Type (%)				
0	61.8	62.9	61.0	
A	23.7	26.0	27.9	
В	12.2	9.1	9.2	
AB	2.3	2.0	1.9	
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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Percentage in each category

C. Transplant Information

Table C4D. Deceased donor transplant characteristics
Transplants performed between 07/01/2021 and 06/30/2022

	Perce	Percentage in each category		
Transplant Characteristic	Center	Region	U.S.	
	(N=239)	(N=3,127)	(N=18,602)	
Cold Ischemic Time (Hours): Local (%)				
Deceased: 0-11 hr	47.2	26.1	22.1	
Deceased: 12-21 hr	45.1	53.8	50.9	
Deceased: 22-31 hr	6.9	17.8	22.8	
Deceased: 32-41 hr	0.7	2.0	2.7	
Deceased: 42+ hr	0.0	0.1	0.5	
Not Reported	0.0	0.2	1.0	
Cold Ischemic Time (Hours): Shared (%)				
Deceased: 0-11 hr	26.3	9.6	9.6	
Deceased: 12-21 hr	43.2	43.9	48.2	
Deceased: 22-31 hr	26.3	38.8	33.1	
Deceased: 32-41 hr	2.1	6.4	6.7	
Deceased: 42+ hr	1.1	1.0	1.3	
Not Reported	1.1	0.3	1.1	
Level of Mismatch (%)	1.1	0.0	1	
A Locus Mismatches (%)				
0	14.6	12.3	11.1	
1	37.7	40.2	39.3	
2	47.7	47.4		
			49.5	
Not Reported	0.0	0.1	0.1	
B Locus Mismatches (%)	0.7	0.0	0.0	
0	6.7	8.2	6.9	
1	27.2	25.9	24.9	
2	66.1	65.8	68.1	
Not Reported	0.0	0.1	0.1	
DR Locus Mismatches (%)	40.0	400	4- 4	
0	16.3	16.8	17.0	
1	48.1	45.3	47.7	
2	35.6	37.8	35.2	
Not Reported	0.0	0.1	0.1	
Total Mismatches (%)				
0	5.0	5.5	4.5	
1	0.8	1.2	1.1	
2	6.7	4.8	4.7	
3	13.8	13.7	14.3	
4	27.2	27.3	27.6	
5	31.4	32.3	32.8	
6	15.1	15.1	15.0	
Not Reported	0.0	0.1	0.1	
Procedure Type (%)				
Single organ	90.4	92.3	93.8	
Multi organ	9.6	7.7	6.2	
Dialysis in First Week After Transplant (%)				
Yes	44.8	42.1	31.4	
No	55.2	57.9	68.2	
Not Reported	0.0	0.0	0.3	
Donor Location (%)	0.0	3.0	0.0	
Local Donation Service Area (DSA)	60.3	51.8	40.8	
Another Donation Service Area (DSA)	39.7	48.2	59.2	
` ,				
Median Time in Hospital After Transplant	4.0 Days	4.0 Days	5.0 Days	



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C. Transplant Information

Table C4L. Living donor transplant characteristics Transplants performed between 07/01/2021 and 06/30/2022

	Percentage in each category		
Transplant Characteristic	Center (N=131)	Region (N=869)	U.S. (N=5,871)
Relation with Donor (%)			
Related	35.1	41.7	39.0
Unrelated	62.6	57.4	60.2
Not Reported	2.3	0.9	8.0
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	16.8	17.1	15.8
1	49.6	48.4	48.0
2	33.6	31.8	32.0
Not Reported	0.0	2.6	4.2
B Locus Mismatches (%)			
0	10.7	11.7	9.1
1	38.9	41.9	41.3
2	50.4	43.7	45.4
Not Reported	0.0	2.6	4.2
DR Locus Mismatches (%)			
0	12.2	15.7	14.6
1	46.6	48.3	47.1
2	41.2	33.4	34.1
Not Reported	0.0	2.6	4.2
Total Mismatches (%)			
0	5.3	6.1	4.4
1	0.0	3.2	3.4
2	12.2	12.2	11.8
3	22.1	22.6	22.0
4	22.1	19.1	17.9
5	22.9	20.4	23.1
6	15.3	13.8	13.2
Not Reported	0.0	2.6	4.2
Procedure Type (%)			
Single organ	100.0	100.0	100.0
Multi organ	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	2.3	2.5	2.6
No	97.7	97.5	96.9
Not Reported	0.0	0.0	0.5
Median Time in Hospital After Transplant	3.0 Days	3.0 Days	4.0 Days



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C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

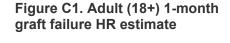
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	833	50,453
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.55%	98.49%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.73%	
Number of observed graft failures (including deaths) during the first month after transplant	12	752
Number of expected graft failures (including deaths) during the first month after transplant	10.44	
Estimated hazard ratio*	1.13	
95% credible interval for the hazard ratio**	[0.62, 1.79]	

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

** The 95% credible interval, [0.62, 1.79], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 13% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 38% reduced risk up to 79% increased risk.



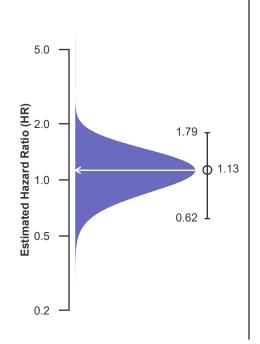
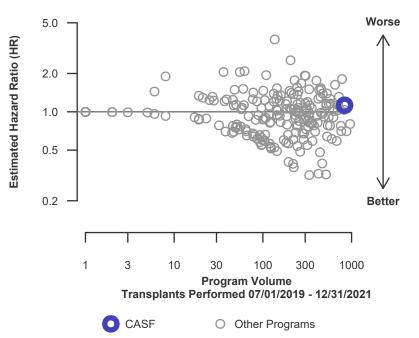


Figure C2. Adult (18+) 1-month graft failure HR program comparison





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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 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

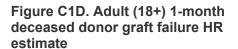
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	532	37,045
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.30%	98.24%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.46%	
Number of observed graft failures (including deaths) during the first month after transplant	9	644
Number of expected graft failures (including deaths) during the first month after transplant	8.06	
Estimated hazard ratio*	1.09	
95% credible interval for the hazard ratio**	[0.55, 1.83]	

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

** The 95% credible interval, [0.55, 1.83], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 9% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 45% reduced risk up to 83% increased risk.



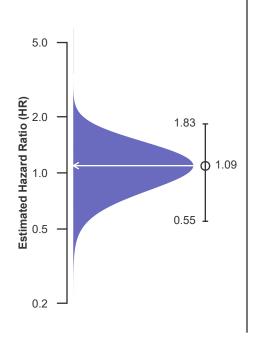
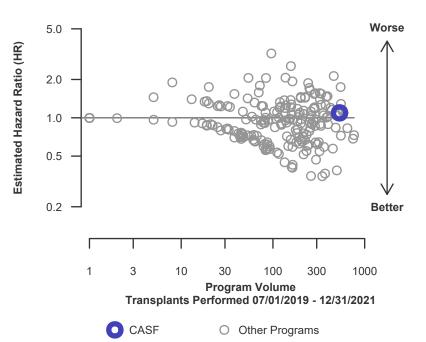


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison





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C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	301	13,408
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.99%	99.19%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.20%	
Number of observed graft failures (including deaths) during the first month after transplant	3	108
Number of expected graft failures (including deaths) during the first month after transplant	2.37	
Estimated hazard ratio*	1.14	
95% credible interval for the hazard ratio**	[0.37, 2.34]	

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

** The 95% credible interval, [0.37, 2.34], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 14% higher risk

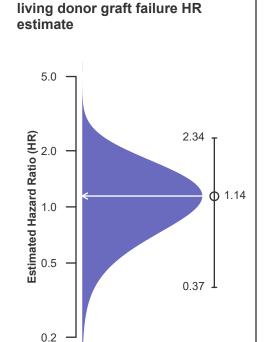
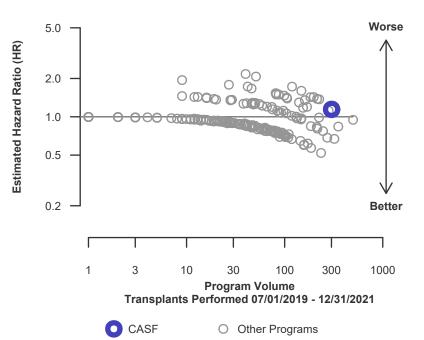


Figure C1L. Adult (18+) 1-month





of graft failure compared to an average program, but CASF's performance could plausibly range from 63% reduced risk up to 134% increased risk.



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C. Transplant Information

Table C6. Adult (18+) 90-Day survival with a functioning graft

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

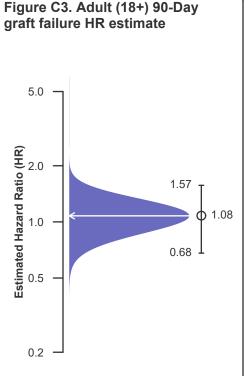
	CASF	U.S.
Number of transplants evaluated	833	50,453
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	97.51%	97.23%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.71%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	20	1,336
Number of expected graft failures (including deaths) during the first 90 days after transplant	18.42	
Estimated hazard ratio*	1.08	
95% credible interval for the hazard ratio**	[0.68, 1.57]	

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

** The 95% credible interval, [0.68, 1.57], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 8% higher risk

comparison

0.2



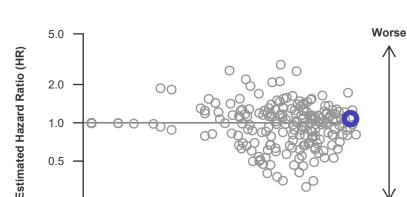


Figure C4. Adult (18+) 90-Day graft failure HR program

Better

of graft failure compared to an average program, but CASF's performance could plausibly range from 32% reduced risk up to 57% increased risk.



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C. Transplant Information

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

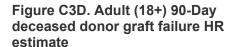
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	532	37,045
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	96.68%	96.68%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	97.09%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	17	1,178
Number of expected graft failures (including deaths) during the first 90 days after transplant	14.91	
Estimated hazard ratio*	1.12	
95% credible interval for the hazard ratio**	[0.68, 1.68]	

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

** The 95% credible interval, [0.68, 1.68], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 12% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 32% reduced risk up to 68% increased risk.



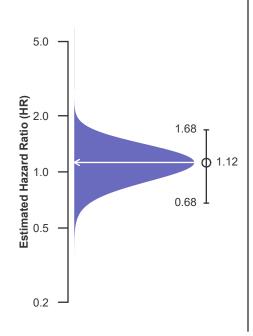
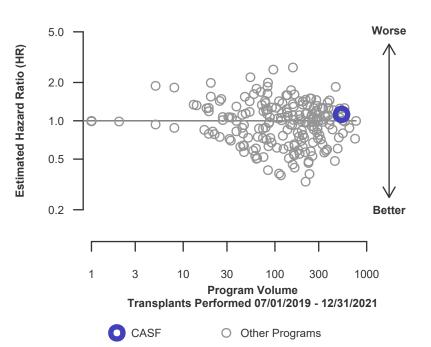


Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison





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C. Transplant Information

Table C6L. Adult (18+) 90-Day survival with a functioning living donor graft

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

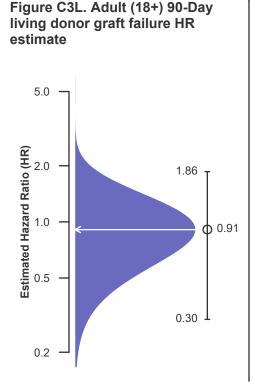
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	301	13,408
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	98.99%	98.78%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.81%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	3	158
Number of expected graft failures (including deaths) during the first 90 days after transplant	3.50	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.30, 1.86]	

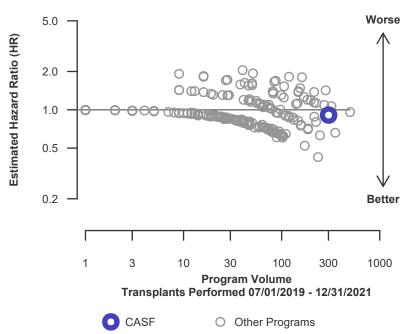
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.30, 1.86], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 9% lower risk of

graft failure compared to an average program, but CASF's performance could plausibly range from 70% reduced risk up to 86% increased risk.









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C. Transplant Information

Table C7. Adult (18+) 1-year survival with a functioning graft

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

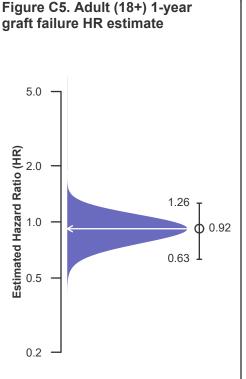
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	833	50,453
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	95.48%	93.85%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.92%	
Number of observed graft failures (including deaths) during the first year after transplant	30	2,380
Number of expected graft failures (including deaths) during the first year after transplant	32.84	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.63, 1.26]	

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

** The 95% credible interval, [0.63, 1.26], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 8% lower risk of

graft failure compared to an average program, but CASF's performance could plausibly range from 37% reduced risk up to 26% increased risk.



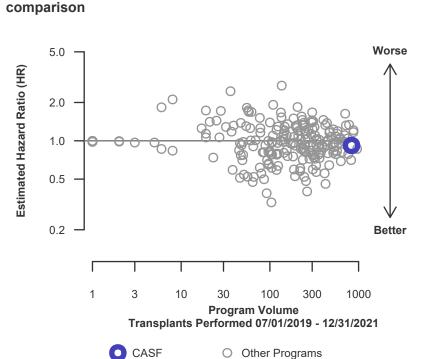


Figure C6. Adult (18+) 1-year graft failure HR program



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C. Transplant Information

Table C7D. Adult (18+) 1-year survival with a functioning deceased donor graft

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

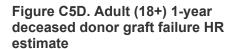
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	532	37,045
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	93.85%	92.61%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	93.48%	
Number of observed graft failures (including deaths) during the first year after transplant	26	2,110
Number of expected graft failures (including deaths) during the first year after transplant	26.66	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.65, 1.37]	

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

** The 95% credible interval, [0.65, 1.37], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 2% lower risk of

graft failure compared to an average program, but CASF's performance could plausibly range from 35% reduced risk up to 37% increased risk.



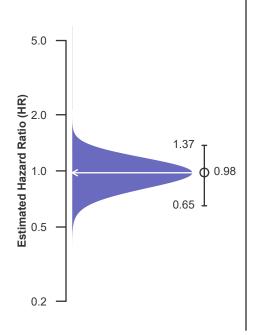
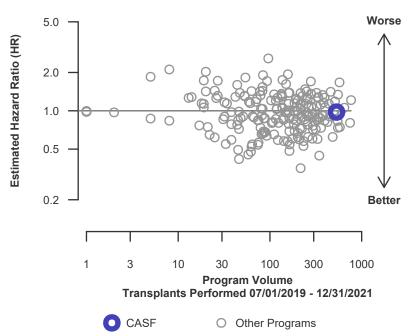


Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison





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C. Transplant Information

Table C7L. Adult (18+) 1-year survival with a functioning living donor graft

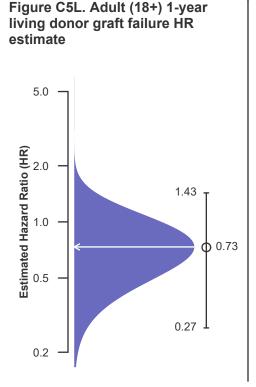
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

	CASF	U.S.
Number of transplants evaluated	301	13,408
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	98.33%	97.39%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.45%	
Number of observed graft failures (including deaths) during the first year after transplant	4	270
Number of expected graft failures (including deaths) during the first year after transplant	6.17	
Estimated hazard ratio*	0.73	
95% credible interval for the hazard ratio**	[0.27, 1.43]	

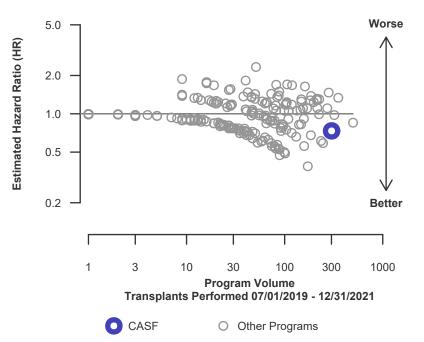
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.27, 1.43], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 27% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 73% reduced risk up to 43% increased risk.









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C. Transplant Information

Table C8. Adult (18+) 1-year Conditional survival with a functioning graft

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

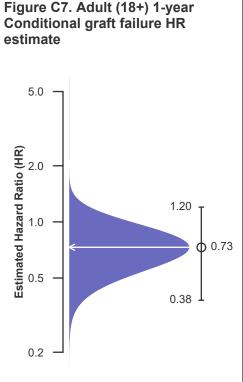
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

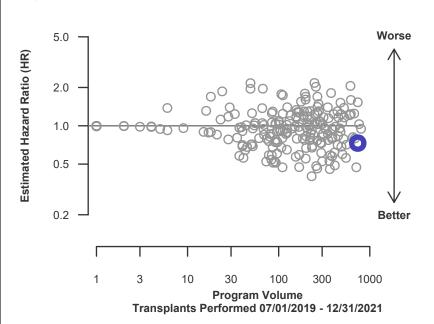
	CASE	U.S.
Number of transplants evaluated	738	43,529
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		96.52%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	97.14%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	10	1,044
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	14.42	
Estimated hazard ratio*	0.73	
95% credible interval for the hazard ratio**	[0.38, 1.20]	

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

** The 95% credible interval, [0.38, 1.20], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 27% lower risk

program comparison





O Other Programs

CASF

Figure C8. Adult (18+) 1-year Conditional graft failure HR

of graft failure compared to an average program, but CASF's performance could plausibly range from 62% reduced risk up to 20% increased risk.



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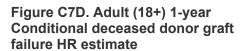
Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	468	31,836
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		95.80%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	96.29%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	9	932
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	11.75	
Estimated hazard ratio*	0.80	
95% credible interval for the hazard ratio**	[0.40, 1.34]	

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

^{**} The 95% credible interval, [0.40, 1.34], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 20% lower risk of graft failure compared to an average program, but CASF's performance could plausibly range from 60% reduced risk up to 34% increased risk.



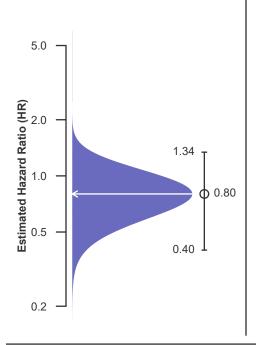
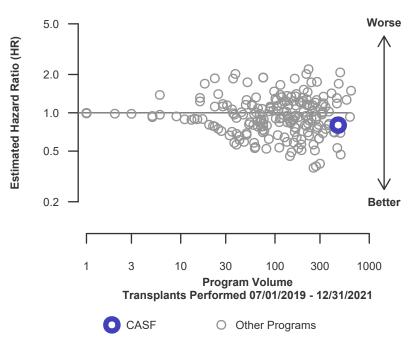


Figure C8D. Adult (18+) 1-year Conditional deceased donor graft failure HR program comparison





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C. Transplant Information

Table C8L. Adult (18+) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	270	11,693
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)		98.60%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	98.62%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	1	112
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	2.67	
Estimated hazard ratio*	0.64	
95% credible interval for the hazard ratio**	[0.13, 1.55]	

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

** The 95% credible interval, [0.13, 1.55], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 36% lower risk

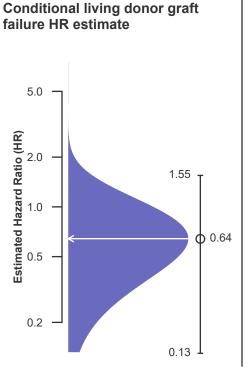
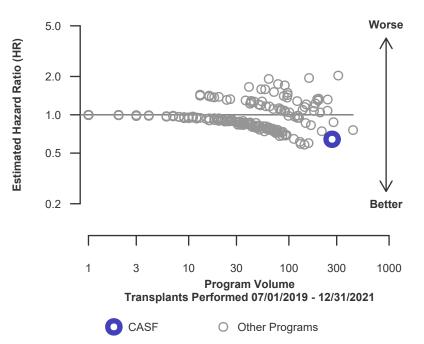


Figure C7L. Adult (18+) 1-year





of graft failure compared to an average program, but CASF's performance could plausibly range from 87% reduced risk up to 55% increased risk.



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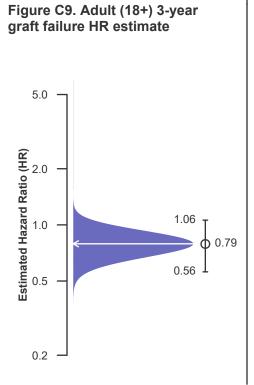
Table C9. Adult (18+) 3-year survival with a functioning graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	833	48,027
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	94.34%	90.55%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.05%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	36	3,167
Number of expected graft failures (including deaths) during the first 3 years after transplant	46.00	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.56, 1.06]	

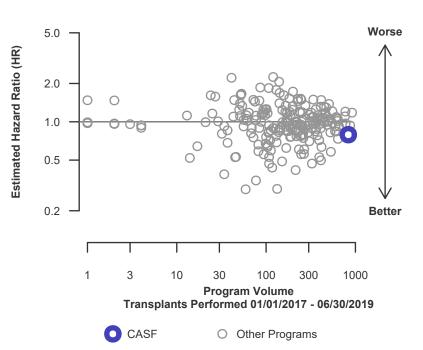
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.56, 1.06], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 21% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 44% reduced risk up to 6% increased risk.









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Table C9D. Adult (18+) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

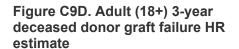
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	534	33,066
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	92.64%	88.67%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.55%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	30	2,675
Number of expected graft failures (including deaths) during the first 3 years after transplant	36.23	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.57, 1.15]	

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

** The 95% credible interval, [0.57, 1.15], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 16% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 43% reduced risk up to 15% increased risk.



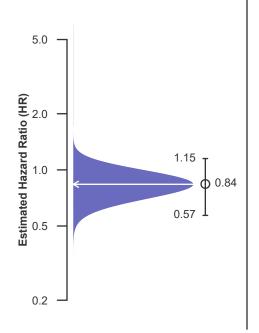
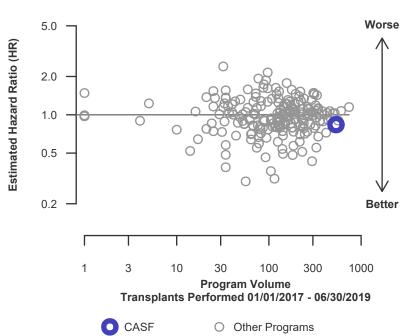


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





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Table C9L. Adult (18+) 3-year survival with a functioning living donor graft

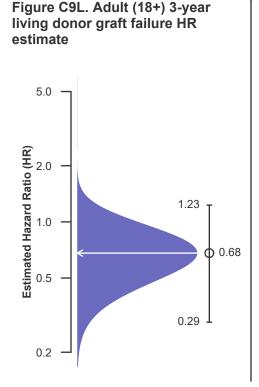
Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures

	CASF	U.S.
Number of transplants evaluated	299	14,961
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	97.54%	94.76%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	94.73%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	6	492
Number of expected graft failures (including deaths) during the first 3 years after transplant	9.76	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.29, 1.23]	

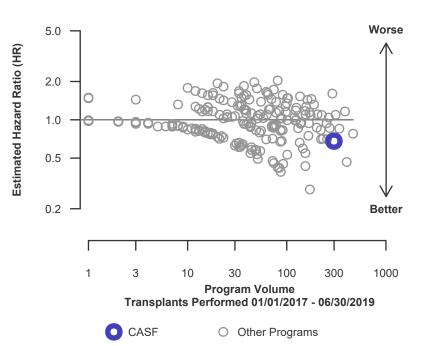
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.29, 1.23], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 32% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 71% reduced risk up to 23% increased risk.









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C. Transplant Information

Table C10. Pediatric (<18) 1-month survival with a functioning graft

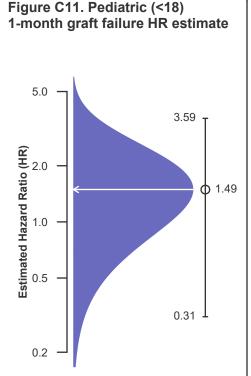
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

	CASF	U.S.
Number of transplants evaluated	2	2,029
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	50.00%	99.01%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.15%	
Number of observed graft failures (including deaths) during the first month after transplant	1	20
Number of expected graft failures (including deaths) during the first month after transplant	0.01	
Estimated hazard ratio*	1.49	
95% credible interval for the hazard ratio**	[0.31, 3.59]	

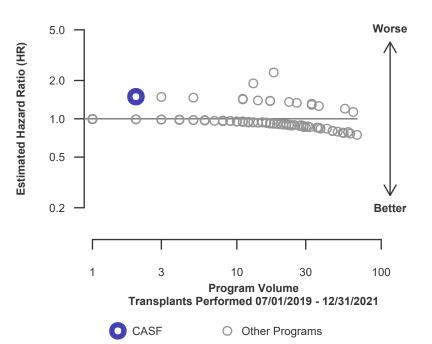
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.31, 3.59], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 49% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 69% reduced risk up to 259% increased risk.









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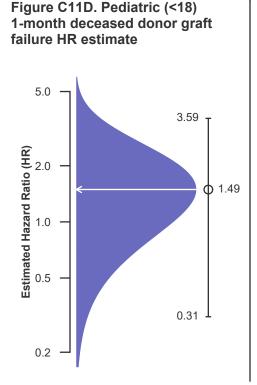
Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

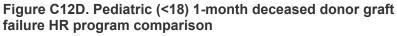
	CASF	U.S.
Number of transplants evaluated	2	1,418
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	50.00%	99.15%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.15%	
Number of observed graft failures (including deaths) during the first month after transplant	1	12
Number of expected graft failures (including deaths) during the first month after transplant	0.01	
Estimated hazard ratio*	1.49	
95% credible interval for the hazard ratio**	[0.31, 3.59]	

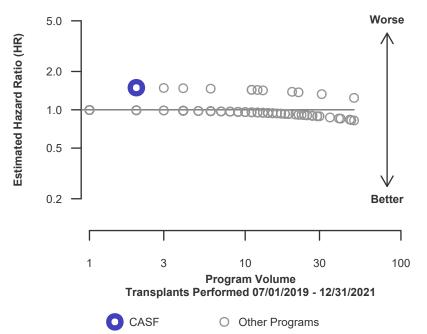
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.31, 3.59], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 49% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 69% reduced risk up to 259% increased risk.









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Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C11L. Pediatric (<18)
1-month living donor graft failure
HR estimate

Figure C12L. Pediatric (<18) 1-month living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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C. Transplant Information

Table C11. Pediatric (<18) 90-Day survival with a functioning graft

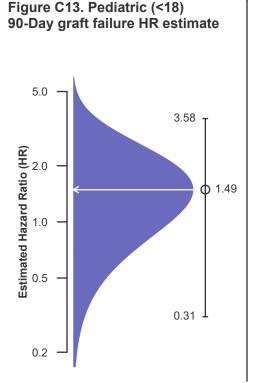
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

	CASF	U.S.
Number of transplants evaluated	2	2,029
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	50.00%	98.64%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.63%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	27
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.02	
Estimated hazard ratio*	1.49	
95% credible interval for the hazard ratio**	[0.31, 3.58]	

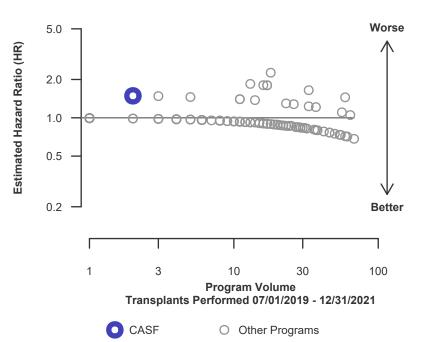
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.31, 3.58], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 49% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 69% reduced risk up to 258% increased risk.









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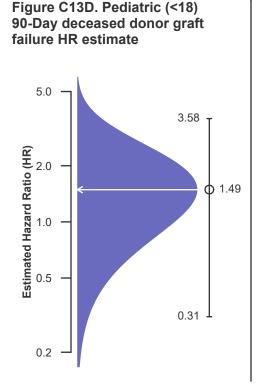
Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

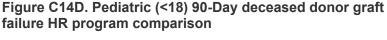
	CASF	U.S.
Number of transplants evaluated	2	1,418
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	50.00%	98.63%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	98.63%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	1	19
Number of expected graft failures (including deaths) during the first 90 days after transplant	0.02	
Estimated hazard ratio*	1.49	
95% credible interval for the hazard ratio**	[0.31, 3.58]	

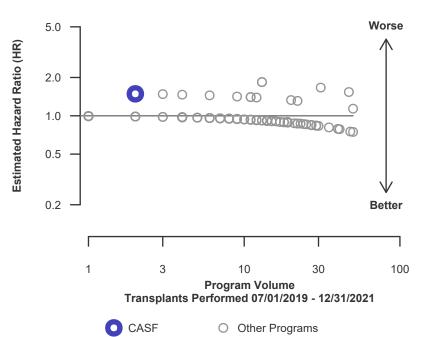
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.31, 3.58], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 49% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 69% reduced risk up to 258% increased risk.









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C. Transplant Information

Table C11L. Pediatric (<18) 90-Day survival with a functioning living donor graft
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C13L. Pediatric (<18)
90-Day living donor graft failure
HR estimate

Figure C14L. Pediatric (<18) 90-Day living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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Table C12. Pediatric (<18) 1-year survival with a functioning graft

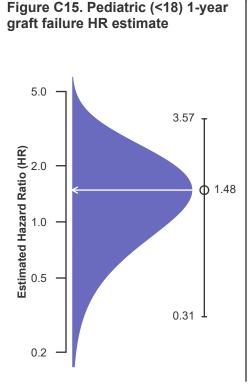
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

	CASF	U.S.
Number of transplants evaluated	2	2,029
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	50.00%	97.80%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.69%	
Number of observed graft failures (including deaths) during the first year after transplant	1	37
Number of expected graft failures (including deaths) during the first year after transplant	0.03	
Estimated hazard ratio*	1.48	
95% credible interval for the hazard ratio**	[0.31, 3.57]	

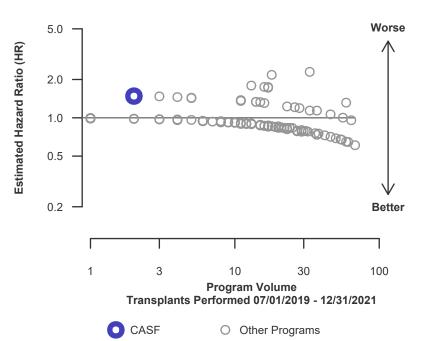
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.31, 3.57], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 48% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 69% reduced risk up to 257% increased risk.









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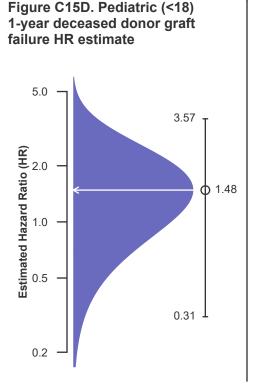
Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

	CASF	U.S.
Number of transplants evaluated	2	1,418
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	50.00%	97.68%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.69%	
Number of observed graft failures (including deaths) during the first year after transplant	1	27
Number of expected graft failures (including deaths) during the first year after transplant	0.03	
Estimated hazard ratio*	1.48	
95% credible interval for the hazard ratio**	[0.31, 3.57]	

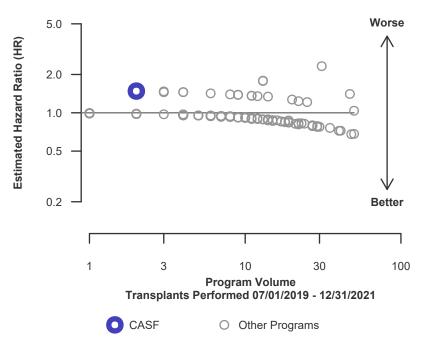
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.31, 3.57], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 48% higher risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 69% reduced risk up to 257% increased risk.









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Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021
Deaths and retransplants are considered graft failures
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C15L. Pediatric (<18)
1-year living donor graft failure
HR estimate

Figure C16L. Pediatric (<18) 1-year living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft

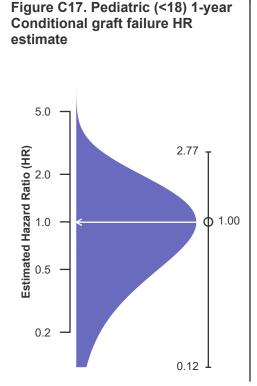
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

	CASE	U.S.
Number of transplants evaluated	1	1,826
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	99.15%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.04%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	10
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

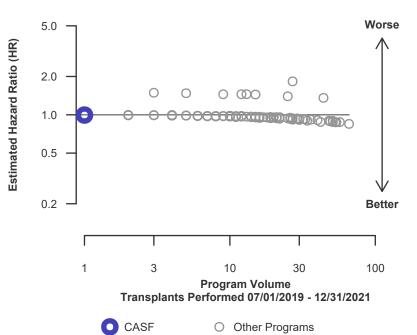
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

** The 95% credible interval, [0.12, 2.77], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of

graft failure compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 177% increased risk.









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Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	1	1,278
Estimated probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (unadjusted for patient and donor characteristics)	100.00%	99.04%
Expected probability of surviving with a functioning graft at 1 year, among patients with a functioning graft at day 90 (adjusted for patient and donor characteristics)	99.04%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	8
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

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

** The 95% credible interval, [0.12, 2.77], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of

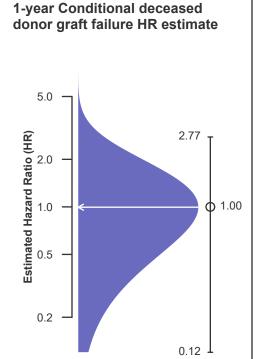
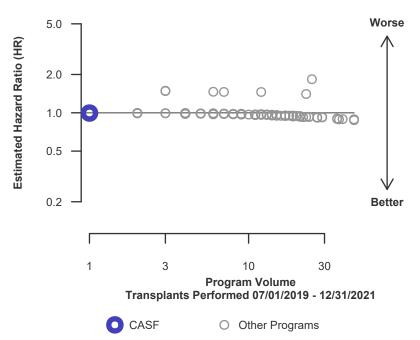


Figure C17D. Pediatric (<18)





graft failure compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 177% increased risk.



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Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C17L. Pediatric (<18)
1-year Conditional living donor graft failure HR estimate

Figure C18L. Pediatric (<18) 1-year Conditional living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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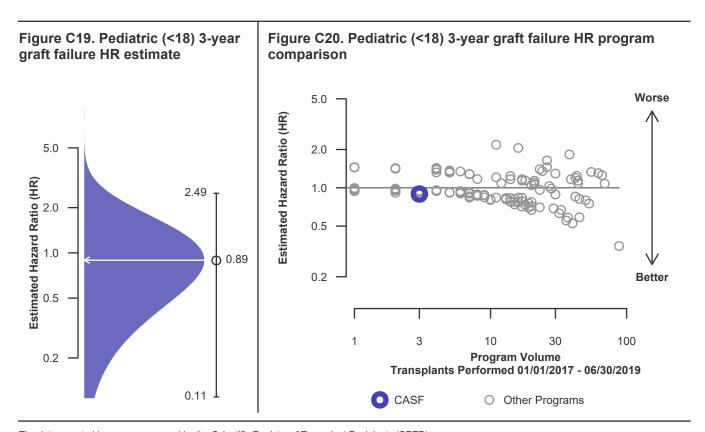
Table C14. Pediatric (<18) 3-year survival with a functioning graft Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	3	2,081
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	94.51%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	90.94%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	77
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.24	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.11, 2.49]	

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

** The 95% credible interval, [0.11, 2.49], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 11% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 89% reduced risk up to 149% increased risk.





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Table C14D. Pediatric (<18) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	2	1,407
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	93.52%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.04%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	64
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.22	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.11, 2.51]	

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

** The 95% credible interval, [0.11, 2.51], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 10% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 89% reduced risk up to 151% increased risk.

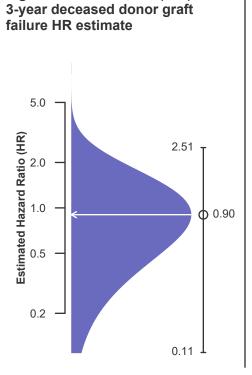
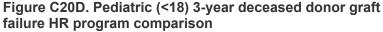
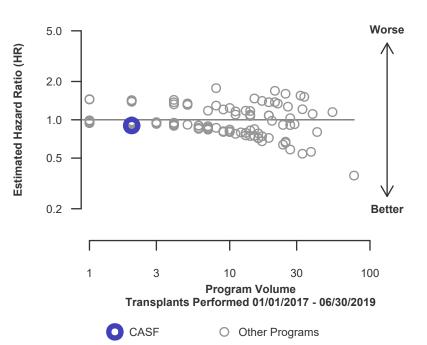


Figure C19D. Pediatric (<18)







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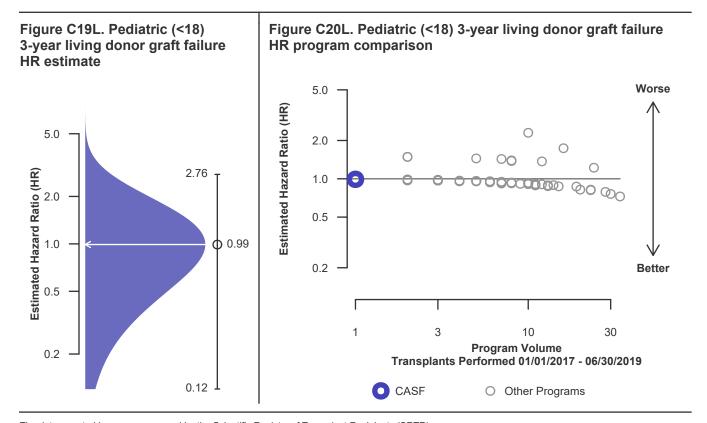
C. Transplant Information

Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft

Single organ transplants performed between 01/01/2017 and 06/30/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

CASF U.S. Number of transplants evaluated 1 674 Estimated probability of surviving with a functioning graft at 3 years 96.73% 100.00% (unadjusted for patient and donor characteristics) Expected probability of surviving with a functioning graft at 3 years 96.74% (adjusted for patient and donor characteristics) Number of observed graft failures (including deaths) 0 13 during the first 3 years after transplant Number of expected graft failures (including deaths) 0.02 during the first 3 years after transplant Estimated hazard ratio* 0.99 95% credible interval for the hazard ratio** [0.12, 2.76]

graft failure compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 176% increased risk.



^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center'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 CASF's graft failure 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 CASF's true hazard ratio with 95% probability. The best estimate is 1% lower risk of



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Table C15. Adult (18+) 1-month patient survival

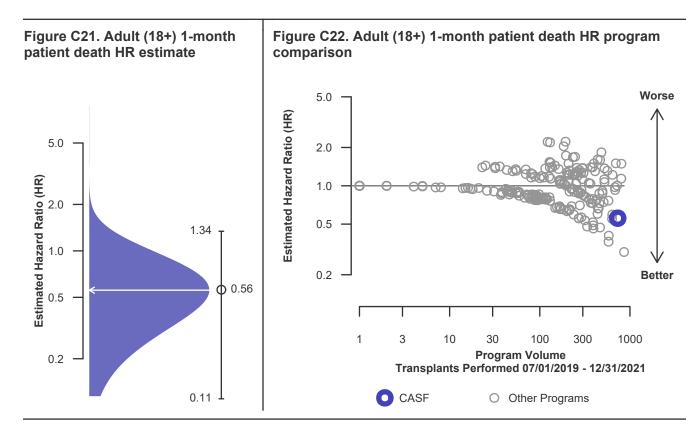
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	731	45,066
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.86%	99.46%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.53%	
Number of observed deaths during the first month after transplant	1	241
Number of expected deaths during the first month after transplant	3.39	
Estimated hazard ratio*	0.56	
95% credible interval for the hazard ratio**	[0.11, 1.34]	

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

** The 95% credible interval, [0.11, 1.34], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 44% lower risk

of patient death compared to an average program, but CASF's performance could plausibly range from 89% reduced risk up to 34% increased risk.





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Table C15D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	461	32,831
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.78%	99.33%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.37%	
Number of observed deaths during the first month after transplant	1	217
Number of expected deaths during the first month after transplant	2.84	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.13, 1.49]	

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

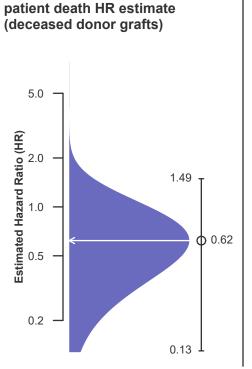
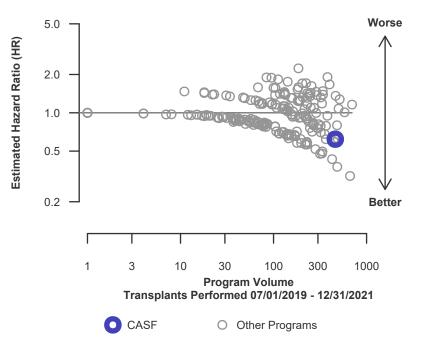


Figure C21D. Adult (18+) 1-month





^{**} The 95% credible interval, [0.13, 1.49], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 38% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 87% reduced risk up to 49% increased risk.



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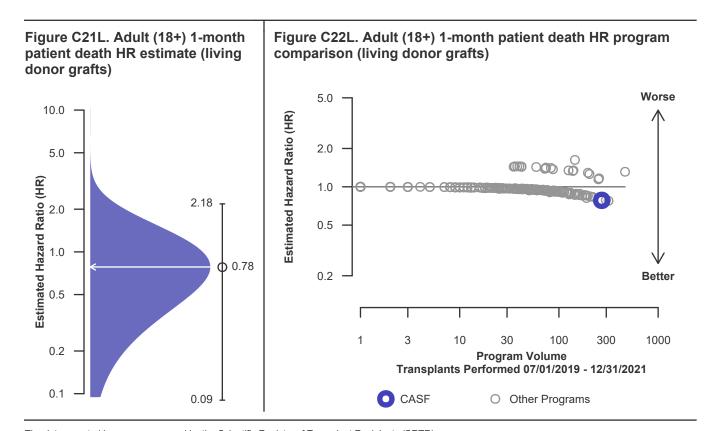
Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	270	12,235
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.80%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.79%	
Number of observed deaths during the first month after transplant	0	24
Number of expected deaths during the first month after transplant	0.56	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.09, 2.18]	

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

^{**} The 95% credible interval, [0.09, 2.18], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 22% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 91% reduced risk up to 118% increased risk.





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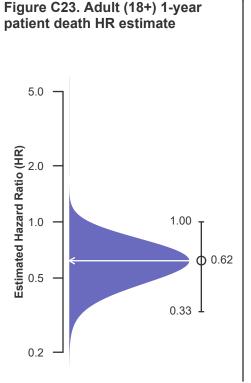
Table C16. Adult (18+) 1-year patient survival

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

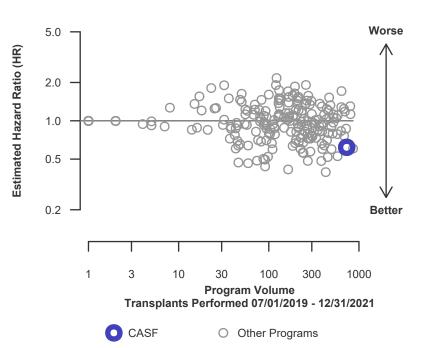
	CASF	U.S.
Number of transplants evaluated	731	45,066
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.77%	95.89%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.39%	
Number of observed deaths during the first year after transplant	11	1,307
Number of expected deaths during the first year after transplant	19.01	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.33, 1.00]	

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

** The 95% credible interval, [0.33, 1.00], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 38% lower risk







of patient death compared to an average program, but CASF's performance could plausibly range from 67% reduced risk up to 0% reduced risk.



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C. Transplant Information

Table C16D. Adult (18+) 1-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	461	32,831
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	96.85%	95.03%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.31%	
Number of observed deaths during the first year after transplant	10	1,165
Number of expected deaths during the first year after transplant	15.45	
Estimated hazard ratio*	0.69	
95% credible interval for the hazard ratio**	[0.36, 1.13]	

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

** The 95% credible interval, [0.36, 1.13], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 31% lower risk

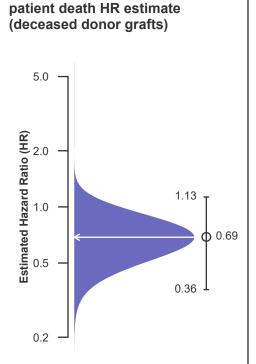
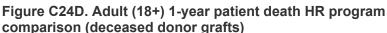
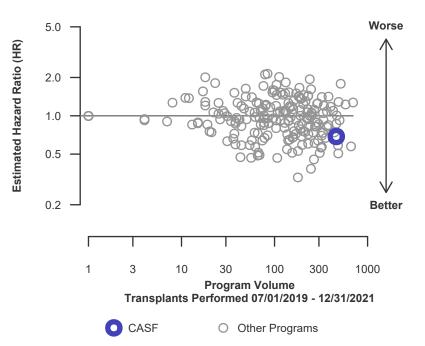


Figure C23D. Adult (18+) 1-year





of patient death compared to an average program, but CASF's performance could plausibly range from 64% reduced risk up to 13% increased risk.



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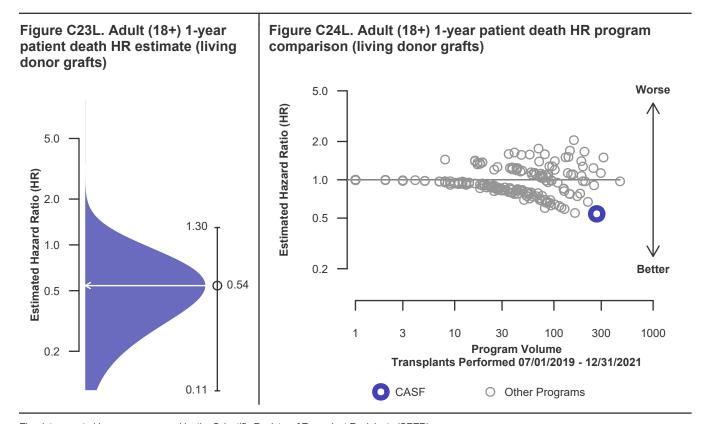
Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	270	12,235
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	99.29%	98.31%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	98.24%	
Number of observed deaths during the first year after transplant	1	142
Number of expected deaths during the first year after transplant	3.55	
Estimated hazard ratio*	0.54	
95% credible interval for the hazard ratio**	[0.11, 1.30]	

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

^{**} The 95% credible interval, [0.11, 1.30], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 46% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 89% reduced risk up to 30% increased risk.





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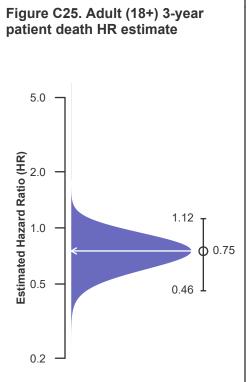
Table C17. Adult (18+) 3-year patient survival

Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

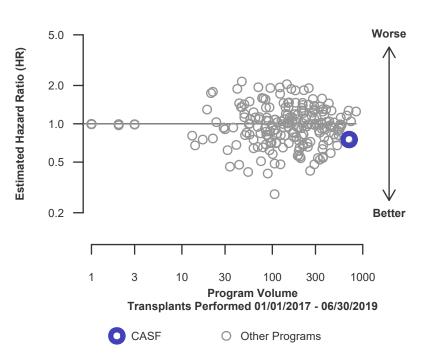
	CASF	U.S.
Number of transplants evaluated	707	42,494
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	96.37%	94.47%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.89%	
Number of observed deaths during the first 3 years after transplant	18	1,611
Number of expected deaths during the first 3 years after transplant	24.59	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.46, 1.12]	

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

** The 95% credible interval, [0.46, 1.12], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 25% lower risk







of patient death compared to an average program, but CASF's performance could plausibly range from 54% reduced risk up to 12% increased risk.



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C. Transplant Information

Table C17D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

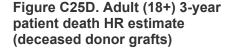
Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	440	28,971
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	95.01%	93.22%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	93.51%	
Number of observed deaths during the first 3 years after transplant	16	1,385
Number of expected deaths during the first 3 years after transplant	20.43	
Estimated hazard ratio*	0.80	
95% credible interval for the hazard ratio**	[0.48, 1.21]	

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

** The 95% credible interval, [0.48, 1.21], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 20% lower risk



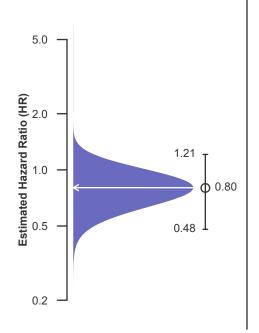
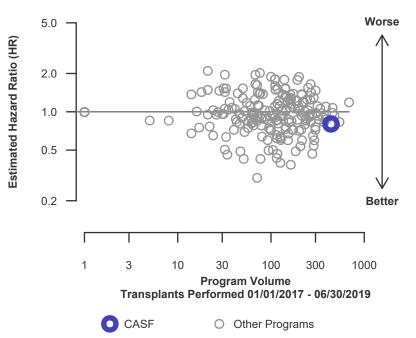


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)



of patient death compared to an average program, but CASF's performance could plausibly range from 52% reduced risk up to 21% increased risk.



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Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients)

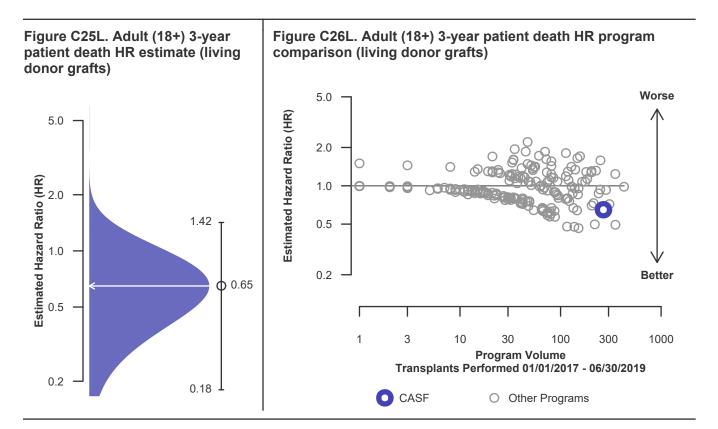
Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	267	13,523
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	98.75%	97.13%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	97.18%	
Number of observed deaths during the first 3 years after transplant	2	226
Number of expected deaths during the first 3 years after transplant	4.17	
Estimated hazard ratio*	0.65	
95% credible interval for the hazard ratio**	[0.18, 1.42]	

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

** The 95% credible interval, [0.18, 1.42], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 35% lower risk

of patient death compared to an average program, but CASF's performance could plausibly range from 82% reduced risk up to 42% increased risk.





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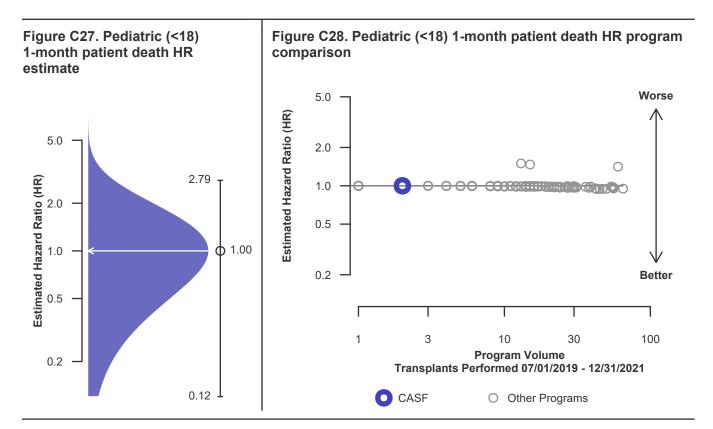
Table C18. Pediatric (<18) 1-month patient survival

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	2	1,870
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)	100.00%	
Number of observed deaths during the first month after transplant	0	3
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

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

^{**} The 95% credible interval, [0.12, 2.79], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 179% increased risk.





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Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021
Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	2	1,297
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	100.00%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	100.00%	
Number of observed deaths during the first month after transplant	0	0
Number of expected deaths during the first month after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.79]	

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

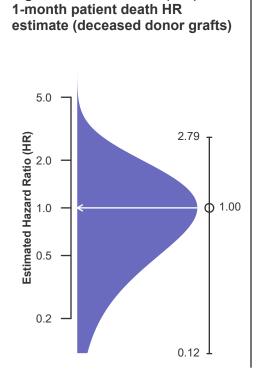
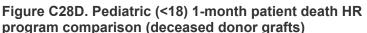
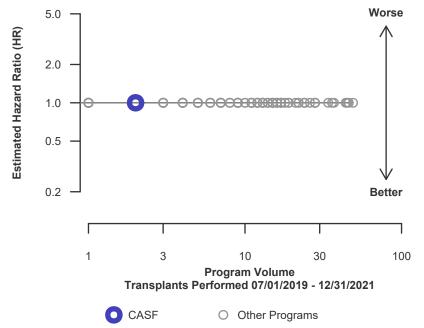


Figure C27D. Pediatric (<18)





^{**} The 95% credible interval, [0.12, 2.79], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 179% increased risk.



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Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021
Retransplants excluded
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C27L. Pediatric (<18) 1-month patient death HR estimate (living donor grafts) Figure C28L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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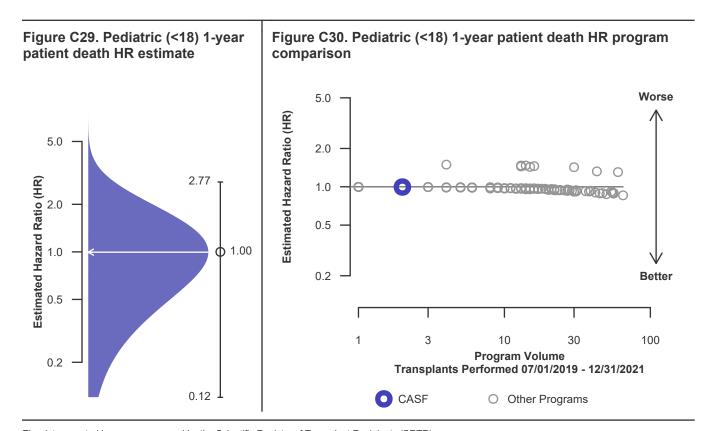
Table C19. Pediatric (<18) 1-year patient survival

Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	2	1,870
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.34%
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	9
Number of expected deaths during the first year after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

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

^{**} The 95% credible interval, [0.12, 2.77], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 177% increased risk.





Retransplants excluded

University of California San Francisco Medical Center

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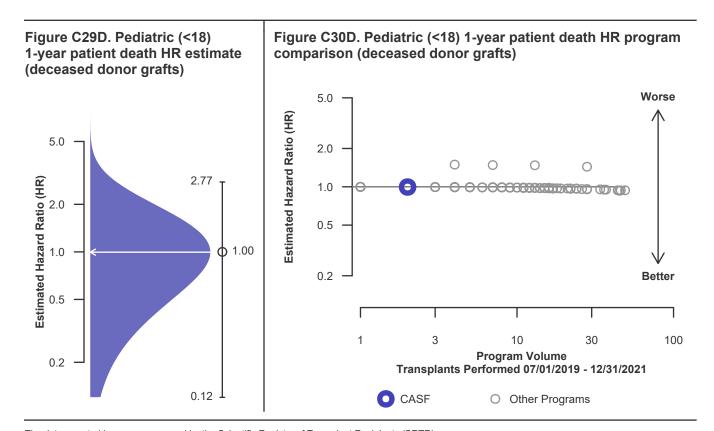
C. Transplant Information

Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021

	CASF	U.S.
Number of transplants evaluated	2	1,297
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.57%
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	4
Number of expected deaths during the first year after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

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

^{**} The 95% credible interval, [0.12, 2.77], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 177% increased risk.





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Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)
Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021
Retransplants excluded
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

This center did not perform any transplants relevant to this table during 07/01/2019-12/31/2021

Figure C29L. Pediatric (<18)
1-year patient death HR estimate (living donor grafts)

Figure C30L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021

This center did not perform any transplants relevant to this figure during 07/01/2019-12/31/2021



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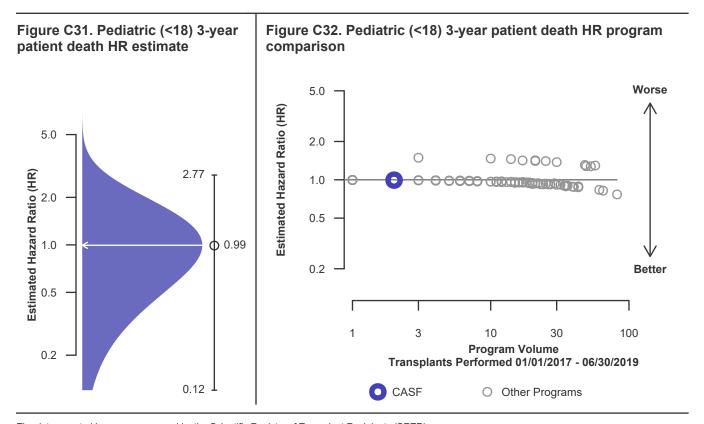
Table C20. Pediatric (<18) 3-year patient survival

Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	2	1,882
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.01%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.94%	
Number of observed deaths during the first 3 years after transplant	0	12
Number of expected deaths during the first 3 years after transplant	0.01	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

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

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





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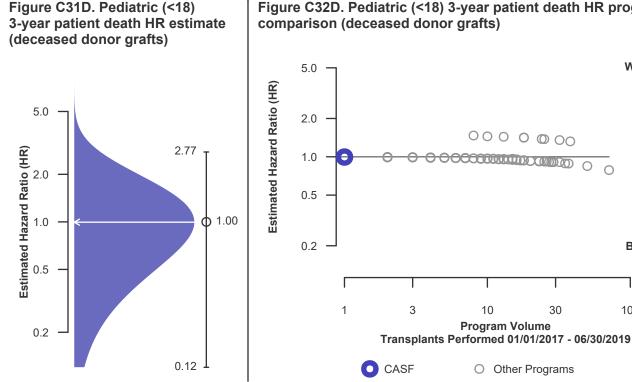
Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	1	1,259
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.10%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.10%	
Number of observed deaths during the first 3 years after transplant	0	9
Number of expected deaths during the first 3 years after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

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



Worse

Better

100

30

^{**} The 95% credible interval, [0.12, 2.77], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 177% increased risk.



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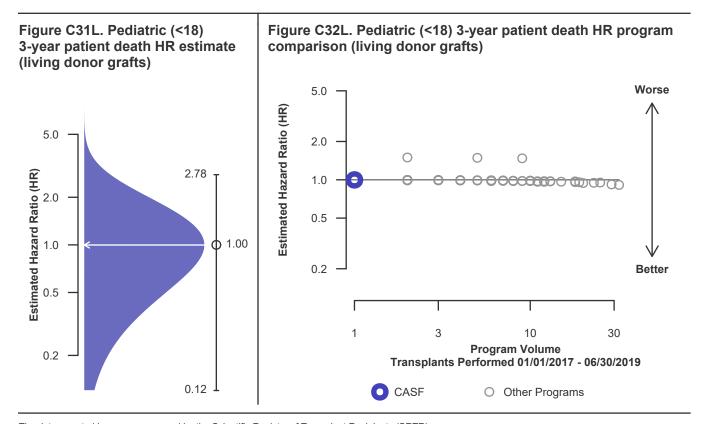
Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	1	623
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	98.77%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	98.77%	
Number of observed deaths during the first 3 years after transplant	0	3
Number of expected deaths during the first 3 years after transplant	0.00	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

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

^{**} The 95% credible interval, [0.12, 2.78], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 0% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 178% increased risk.





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C. Transplant Information

Table C21. Multi-organ transplant graft survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Transplants Performed		Kidney Graft Failures		Estimated Kidney Graft Survival	
	CASF-TX1	USA	CASF-TX1	USA	CASF-TX1	USA
Kidney-Heart	3	736	1	101	66.7%	86.0%
Kidney-Liver	37	1,904	2	219	94.6%	88.1%
Kidney-Pancreas	33	2,070	1	102	97.0%	94.8%

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 07/01/2019 - 12/31/2021

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Transp Perfor CASF-TX1	med	Patient D	eaths USA	Estima Patient S CASF-TX1	
Kidney-Heart	3	736	0	77	100.0%	89.4%
Kidney-Liver	37	1,904	1	176	97.3%	90.3%
Kidney-Pancreas	33	2,070	0	72	100.0%	96.4%

Pediatric (<18) Transplants

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



Center Code: CASF Transplant Program (Organ): Kidney

Release Date: January 5, 2023 Based on Data Available: October 31, 2022 SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

D. Living Donor Information

Table D1. Living donor summary: 07/01/2019 - 06/30/2022

	This Center			United States		
Living Donor Follow-Up	07/2019- 06/2020	07/2020- 06/2021	07/2021- 12/2021	07/2019- 06/2020	07/2020- 06/2021	07/2021- 12/2021
Number of Living Donors	117	131	67	5,778	5,911	3,002
6-Month Follow-Up Donors due for follow-up	34	103	55	1,463	4,387	2,457
Timely clinical data	23 67.6%	73 70.9%	43 78.2%	1,239 84.7%	3,851 87.8%	2,137 87.0%
Timely lab data	19 55.9%	69 67.0%	36 65.5%	1,138 77.8%	3,629 82.7%	2,023 82.3%
12-Month Follow-Up Donors due for follow-up	20	119		921	5,319	
Timely clinical data	13 65.0%	89 74.8%		752 81.7%	4,481 84.2%	
Timely lab data	12 60.0%	70 58.8%		716 77.7%	4,093 77.0%	
24-Month Follow-Up Donors due for follow-up	105			5,240		
Timely clinical data	66 62.9%			4,042 77.1%		
Timely lab data	58 55.2%			3,589 68.5%		

Follow-up forms due during the COVID-19 amnesty period from 3/13/2020-3/31/2021 are not included in timely clinical and lab data calculations