

Center Code: CASF Transplant Program (Organ): Liver Release Date: July 6, 2023

Based on Data Available: April 30, 2023

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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, July 2022 and January 2023. These reports made adjustments to transplant program and OPO performance metrics so that data during the time around the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

Modifications for the July 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 July 2023 reporting cycle. These changes will remain in force beyond the July 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 1/1/2020-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-6/30/2022, follow-up through 12/31/2022.

3-year Patient and Graft Survival Evaluations: Transplants 7/1/2017-12/31/2019; follow-up through 3/12/2020.

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

Days after listing (and before transplant) between 1/1/2021 and 12/31/2022.



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

Candidates on the waitlist 1/1/2021-12/31/2022.

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

Evaluation period: 1/1/2021-12/31/2022.

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

Offers received 1/1/2022-12/31/2022.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 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 January 2024.

As with the January 2023 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 liver 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 33.9 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 01/01/2017 and 06/30/2022. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.2 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2022 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 - B15 similarly show offer acceptance rates for subsets



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of offers.

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

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

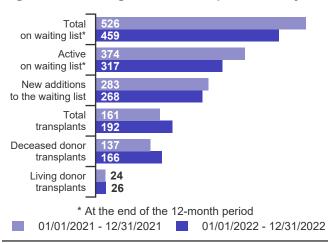


 Table A1. Census of transplant recipients

 Recipients
 01/01/2021-12/31/2021
 01/01/2022-12/31/2022

 Transplanted at this center
 161
 192

 Followed by this center*
 1,928
 1,678

 ...transplanted at this program
 1,808
 1,568

120

110

Figure A2. Transplant rates 01/01/2021 - 12/31/2022

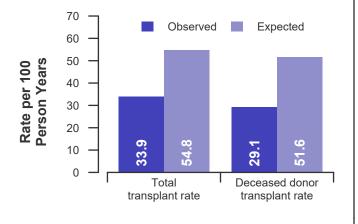


Figure A3. Pre-transplant mortality rates 01/01/2021 - 12/31/2022

...transplanted elsewhere

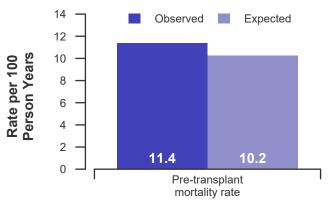


Figure A4. First-year adult graft and patient survival: 01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022

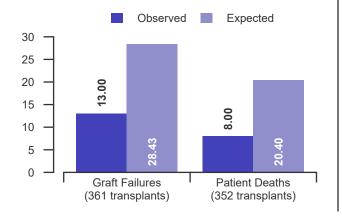


Figure A5. First-year pediatric graft & patient survival: 01/01/2020 - 03/12/2020, 06/13/2020 - 06/30/2022

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022

^{*} 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.



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Table B1. Waiting list activity summary: 01/01/2021 - 12/31/2022

		its for center	Activity for 01/01/2022 to 12/31/2022 as percent of registrants on waiting lis on 01/01/2022			
Waiting List Registrations	01/01/2021- 12/31/2021	01/01/2022- 12/31/2022	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	584	526	100.0	100.0	100.0	
New listings at this center	283	268	51.0	88.5	116.1	
Removals						
Transferred to another center	3	2	0.4	1.2	1.0	
Received living donor transplant*	24	26	4.9	3.7	5.1	
Received deceased donor transplant*	137	166	31.6	58.4	76.1	
Died	54	51	9.7	8.1	8.9	
Transplanted at another center	7	14	2.7	1.4	2.8	
Deteriorated	38	28	5.3	8.0	9.6	
Recovered	26	26	4.9	8.9	9.1	
Other reasons	52	22	4.2	8.7	9.8	
On waiting list at end of period	526	459	87.3	90.1	93.7	

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



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2022 and 12/31/2022

Demographic Characteristic		iting List Regi 022 to 12/31/2		All Waiting List Registrations on 12/31/2022 (%)			
Demographic Characteristic	This Center (N=268)	OPTN Region (N=2,288)	U.S. (N=13,611)	This Center (N=459)	OPTN Region (N=2,329)	U.S. (N=10,983)	
AII (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	45.5	46.8	68.3	45.1	43.5	66.2	
African-American	3.7	3.1	6.7	3.7	3.9	6.9	
Hispanic/Latino	32.8	39.6	18.7	32.5	40.2	20.0	
Asian	16.0	8.1	4.4	16.6	10.3	5.2	
Other	1.9	2.4	1.9	2.2	2.0	1.7	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.0	3.4	2.4	0.0	1.8	1.4	
2-11 years	0.0	2.0	1.7	0.0	1.9	1.4	
12-17 years	0.0	1.8	1.4	0.4	1.8	1.2	
18-34 years	6.3	9.0	6.9	7.0	7.6	6.7	
35-49 years	15.7	19.5	21.4	18.3	19.0	19.3	
50-64 years	50.4	42.2	44.8	52.1	47.9	49.2	
65-69 years	19.8	15.3	15.5	17.9	14.6	15.7	
70+ years	7.8	6.9	6.0	4.4	5.5	5.1	
Gender (%)							
Male	57.8	59.0	61.1	60.3	58.6	60.7	
Female	42.2	41.0	38.9	39.7	41.4	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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Table B3. Medical characteristics of waiting list candidates Candidates registered on the waiting list between 01/01/2022 and 12/31/2022

Medical Characteristic		ting List Regi		or	ing List Regis n 12/31/2022 (%	
medical Characteristic	This Center (N=268)	OPTN Region (N=2,288)	U.S. (N=13,611)	This Center (N=459)	OPTN Region (N=2,329)	U.S. (N=10,983)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
0	48.5	49.8	46.9	51.4	53.7	49.8
A	35.8	34.1	37.3	35.9	34.1	38.4
В	11.6	12.4	11.8	10.0	9.9	9.8
AB	4.1	3.7	3.9	2.6	2.4	2.0
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	5.6	4.9	4.2	3.5	3.3	3.4
No	94.4	95.1	95.8	96.5	96.7	96.6
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)						
Acute Hepatic Necrosis	4.5	4.9	3.7	0.2	2.3	1.5
Non-Cholestatic Cirrhosis	72.8	52.2	54.1	78.9	62.6	61.6
Cholestatic Liver Disease/Cirrhosis	6.7	5.7	6.3	7.4	7.3	7.6
Biliary Atresia	0.0	3.0	2.0	0.4	3.0	1.9
Metabolic Diseases	0.4	1.7	1.8	0.9	1.2	1.5
Malignant Neoplasms	1.1	12.1	10.5	1.3	9.6	11.3
Other	14.6	19.3	21.3	10.9	13.0	14.4
Missing	0.0	1.2	0.3	0.0	1.0	0.3
Medical Urgency Status/MELD/PEL	D at Listing	(%)*				
Status 1A	2.2	3.4	2.9	0.4	0.4	0.3
Status 1B	0.0	0.6	0.4	0.0	0.1	0.1
Status 2A	0.0	0.0	0.0	0.0	0.0	0.0
Status 2B	0.0	0.0	0.0	0.0	0.0	0.0
Status 3	0.0	0.0	0.0	0.7	0.5	0.2
MELD 6-10	18.3	17.0	14.3	28.8	26.7	27.1
MELD 11-14	16.0	11.1	11.5	22.2	21.0	21.8
MELD 15-20	23.9	16.9	20.7	32.0	23.5	27.2
MELD 21-30	25.0	20.1	24.5	15.5	12.3	14.1
MELD 31-40	12.7	14.5	13.6	0.2	1.3	1.0
PELD less than or equal to 10	0.0	2.6	1.6	0.0	2.8	1.8
PELD 11-14	0.0	0.5	0.3	0.0	0.3	0.2
PELD 15-20	0.0	0.3	0.4	0.0	0.1	0.2
PELD 21-30	0.0	0.4	0.3	0.0	0.1	0.1
PELD 31 or greater	0.0	0.0	0.2	0.0	0.0	0.0
Temporarily Inactive	0.0	8.5	5.3	0.0	10.8	5.9

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



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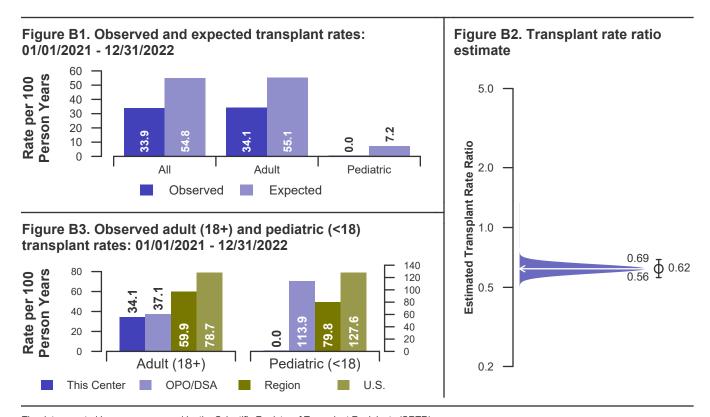
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Table B4. Transplant rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	584	1,071	2,651	12,165
Person Years**	1,041.3	1,968.3	5,095.9	23,323.3
Removals for Transplant	353	772	3,099	18,762
Adult (18+) Candidates				
Count on waiting list at start*	579	1,047	2,549	11,763
Person Years**	1,034.3	1,913.9	4,863.9	22,500.3
Removals for transpant	353	710	2,914	17,712
Pediatric (<18) Candidates				
Count on waiting list at start*	5	24	102	402
Person Years**	7.0	54.4	232.0	823.0
Removals for transplant	0	62	185	1,050

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

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





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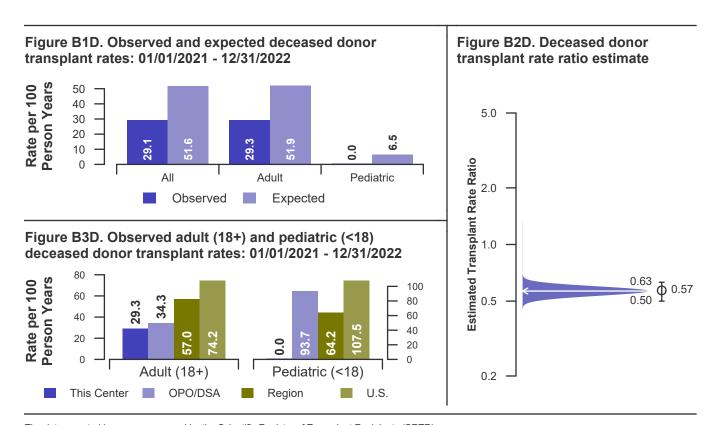
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Table B4D. Deceased donor transplant rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	584	1,071	2,651	12,165
Person Years**	1,041.3	1,968.3	5,095.9	23,323.3
Removals for Transplant	303	707	2,921	17,590
Adult (18+) Candidates				
Count on waiting list at start*	579	1,047	2,549	11,763
Person Years**	1,034.3	1,913.9	4,863.9	22,500.3
Removals for transpant	303	656	2,772	16,705
Pediatric (<18) Candidates				
Count on waiting list at start*	5	24	102	402
Person Years**	7.0	54.4	232.0	823.0
Removals for transplant	0	51	149	885

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

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





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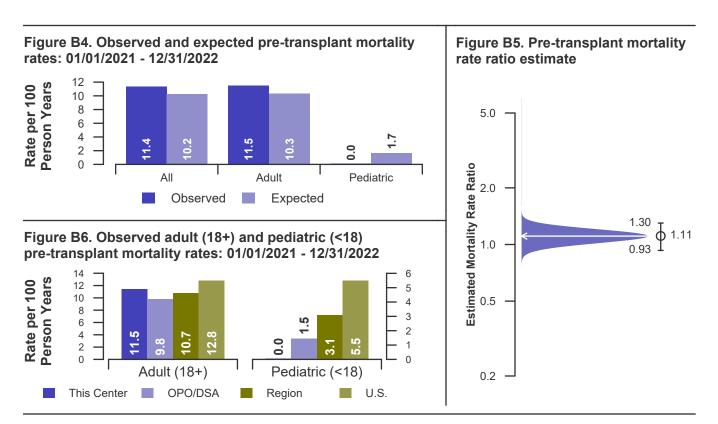
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Table B5. Pre-transplant mortality rates: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	584	1,071	2,651	12,165
Person Years**	1,196.0	2,260.7	5,913.2	27,268.0
Number of deaths	136	215	615	3,414
Adult (18+) Candidates				
Count on waiting list at start*	579	1,047	2,549	11,763
Person Years**	1,187.1	2,192.1	5,654.0	26,355.0
Number of deaths	136	214	607	3,364
Pediatric (<18) Candidates				
Count on waiting list at start*	5	24	102	402
Person Years**	8.9	68.6	259.1	913.0
Number of deaths	0	1	8	50

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

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





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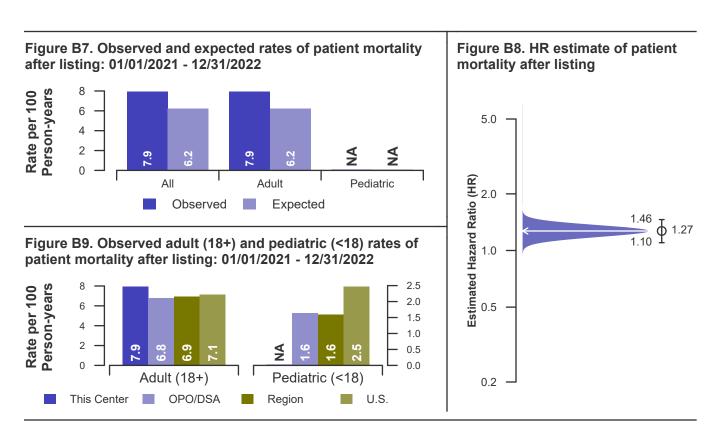
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Table B6. Rates of patient mortality after listing: 01/01/2021 - 12/31/2022

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	1,770	3,661	13,002	78,092
Person-years*	2,401.5	4,966.6	17,564.3	104,795.6
Number of Deaths	190	315	1,152	7,187
Adult (18+) Patients				
Count at risk during the evaluation period	1,770	3,335	12,077	73,681
Person-years*	2,401.5	4,539.2	16,311.7	98,781.2
Number of Deaths	190	308	1,132	7,039
Pediatric (<18) Patients				
Count at risk during the evaluation period	0	326	925	4,411
Person-years*	0.0	427.4	1,252.5	6,014.4
Number of Deaths	0	7	20	148

^{*} Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2021, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 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 07/01/2020 and 06/30/2021

Waiting list status (survival status)		Center (National National Nati	,	U.S. (N=13,827) Months Since Listing 6 12 18		
Alive on waiting list (%)	66.3	46.0	31.8	38.4	22.8	15.4
Died on the waiting list without transplant (%)	3.4	5.7	8.0	4.3	5.5	6.2
Removed without transplant (%):						
Condition worsened (status unknown)	4.2	6.9	9.2	4.0	5.5	6.4
Condition improved (status unknown)	0.4	0.4	0.4	1.4	2.4	3.4
Refused transplant (status unknown)	0.4	0.4	0.4	0.2	0.3	0.5
Other	0.8	2.3	3.8	1.8	2.9	4.1
Transplant (living donor from waiting list only) (%	6):					
Functioning (alive)	1.9	5.4	3.1	2.5	3.1	2.0
Failed-Retransplanted (alive)	0.0	0.4	0.4	0.0	0.0	0.1
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.1	0.1	0.2
Status Yet Unknown**	0.0	0.0	3.1	0.0	0.2	1.4
Transplant (deceased donor) (%):						
Functioning (alive)	21.1	25.3	23.0	43.3	46.6	33.0
Failed-Retransplanted (alive)	0.0	0.4	0.4	0.4	0.6	0.7
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.4	0.4	1.1	1.9	3.0	4.2
Status Yet Unknown*	1.1	6.5	15.3	1.6	6.3	21.9
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.2	0.4	0.6
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	3.8	6.1	9.2	6.2	8.7	10.5
Total % known died or removed as unstable	8.0	13.0	18.4	10.3	14.2	16.9
Total % removed for transplant	24.5	38.3	46.4	49.8	60.0	63.5
Total % with known functioning transplant (alive)	23.0	30.7	26.1	45.8	49.7	35.0

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



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Table B7S1. Medical urgency status 1 candidate status after listing Candidates registered on the waiting list between 07/01/2020 and 06/30/2021

Waiting list status (survival status)		s Center (I hs Since I 12	,	U.S. (N=447) Months Since listing 6 12 18		
Alive on waiting list (%)	0.0	0.0	0.0	2.5	1.6	0.9
Died on the waiting list without transplant (%)	0.0	0.0	0.0	5.4	5.4	5.4
Removed without transplant (%):	0.0	0.0	0.0	0.4	0.4	0.4
Condition worsened (status unknown)	0.0	0.0	0.0	7.2	7.2	7.2
Condition improved (status unknown)	33.3	33.3	33.3	15.9	16.8	17.4
Refused transplant (status unknown)	0.0	0.0	0.0	0.4	0.4	0.4
Other	0.0	0.0	0.0	0.7	0.7	0.7
Transplant (living donor from waiting list only) (%):		0.0	0.0	0	0.7	0
Functioning (alive)	0.0	0.0	0.0	1.3	1.3	1.3
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	0.2	0.2	0.2
Status Yet Unknown**	0.0	0.0	0.0	0.0	0.0	0.0
Transplant (deceased donor) (%):						
Functioning (alive)	66.7	33.3	33.3	56.4	45.0	32.7
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.9	0.9	0.9
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	6.7	8.5	8.9
Status Yet Unknown*	0.0	33.3	33.3	2.0	11.6	23.5
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.4	0.4
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	0.0	0.0	12.3	14.1	14.5
Total % known died or removed as unstable	0.0	0.0	0.0	19.5	21.3	21.7
Total % removed for transplant	66.7	66.7	66.7	67.6	67.6	67.6
Total % with known functioning transplant (alive)	66.7	33.3	33.3	57.7	46.3	34.0

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



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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2017 and 12/31/2019

	Percent transplanted at time periods since listing									
Characteristic			nis Cen		_			ited Sta		_
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	886	11.7	28.9	41.2	45.5	38,721	21.2	51.2	57.7	59.5
Ethnicity/Race*										
White	392	10.7	26.5	38.8	41.6	26,571	21.2	52.0	58.1	59.7
African-American	34	8.8	29.4	50.0	52.9	3,169	24.1	54.8	61.3	63.0
Hispanic/Latino	277	11.9	31.0	42.6	47.3	6,476	19.8	47.8	55.4	57.5
Asian	162	14.8	32.1	43.8	51.9	1,815	19.4	44.5	53.6	56.1
Other	21	9.5	19.0	33.3	33.3	690	24.8	52.5	58.1	59.9
Unknown	0					0				
Age										
<2 years	0					861	22.1	72.0	75.0	76.2
2-11 years	0					671	27.4	70.2	75.6	76.9
12-17 years	0					446	20.9	58.1	65.9	67.7
18-34 years	41	14.6	29.3	43.9	43.9	2,314	31.2	53.2	58.1	59.9
35-49 years	125	21.6	40.0	48.0	53.6	6,650	30.7	54.8	59.8	61.4
50-64 years	472	11.0	28.6	39.8	44.5	19,523	19.4	50.1	57.0	58.9
65-69 years	205	6.8	23.9	38.5	42.9	6,512	14.2	46.0	53.8	55.9
70+ years	43	11.6	23.3	46.5	46.5	1,744	14.4	46.3	53.6	54.5
Gender										
Male	562	11.0	29.0	42.5	47.3	24,131	20.9	52.3	59.1	60.9
Female	324	13.0	28.7	38.9	42.3	14,590	21.5	49.3	55.4	57.1

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



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Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 01/01/2017 and 12/31/2019

Characteristic			ercent t	ransplar ter	nted at t	ime per		ice listi ited Sta	_	
	N			2 years	3 years	N	30 day	1 year	2 years	3 years
All	886	11.7	28.9	41.2	45.5	38,721	21.2	51.2	57.7	59.5
Blood Type										
Ο	422	12.3	26.5	38.9	43.8	18,066	20.1	48.7	55.6	57.6
Α	288	9.0	24.3	38.5	42.7	14,419	20.1	49.6	56.2	58.0
В	137	13.1	38.0	46.7	50.4	4,721	24.6	59.1	64.8	66.2
AB	39	20.5	56.4	66.7	66.7	1,515	32.8	70.7	74.0	74.7
Previous Transplant										
Yes	39	23.1	48.7	53.8	59.0	1,894	29.1	53.2	58.1	59.3
No	847	11.2	28.0	40.6	44.9	36,827	20.8	51.1	57.7	59.5
Primary Disease										
Acute Hepatic Necrosis	25	72.0	80.0	80.0	84.0	1,738	53.2	62.1	64.4	65.2
Non-Cholestatic Cirrhosis	737	9.6	27.4	40.2	44.1	25,688	21.9	50.4	56.2	58.0
Cholestatic Liver	53	11.3	22.6	32.1	37.7	2 622	17.3	49.1	57.3	59.8
Disease/Cirrhosis	55	11.3	22.0	32.1	31.1	2,632	17.3	49.1	37.3	59.6
Biliary Atresia	2	0.0	50.0	50.0	50.0	759	15.4	65.0	70.4	72.3
Metabolic Diseases	9	66.7	66.7	66.7	66.7	932	25.3	68.7	73.4	75.3
Malignant Neoplasms	13	7.7	23.1	38.5	46.2	4,872	7.9	47.4	58.0	59.7
Other	46	4.3	26.1	43.5	52.2	2,084	21.4	50.4	57.8	59.8
Missing	1	0.0	0.0	0.0	0.0	16	25.0	31.2	37.5	37.5
Medical Urgency Status/MELD/	PELD	at Listing	g*							
Status 1	0					0				
Status 1A	19	68.4	68.4	68.4	68.4	1,215	60.6	61.1	61.2	61.3
Status 1B	0					142	47.2	82.4	82.4	82.4
Status 2A	0					0				
Status 2B	0					0				
Status 3	0					0				
MELD 6-10	206	1.5	16.5	37.4	45.6	7,437	2.6	37.7	49.1	51.8
MELD 11-14	143	0.0	13.3	29.4	34.3	5,205	2.8	33.2	43.4	46.6
MELD 15-20	224	0.4	15.6	27.7	31.7	8,259	9.5	44.7	52.8	55.0
MELD 21-30	187	6.4	39.0	47.1	49.7	8,751	26.8	61.0	64.6	65.7
MELD 31-40	79	73.4	81.0	82.3	82.3	4,079	69.6	79.1	79.3	79.5
PELD less than or equal to 10	0					687	10.6	70.7	77.6	79.9
PELD 11-14	0					107	16.8	74.8	80.4	81.3
PELD 15-20	0					172	19.8	76.2	78.5	79.1
PELD 21-30	0					133	30.8	78.2	79.7	79.7
PELD 31 or greater	0					36	44.4	66.7	66.7	66.7
Temporarily Inactive	28	60.7	64.3	64.3	64.3	2,498	35.9	53.8	57.4	58.1

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



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B. Waiting List Information

Table B10. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 01/01/2017 and 06/30/2022

Percentile	Months to Transplant**			
	Center	OPO/DSA	Region	U.S.
5th	0.2	0.1	0.1	0.1
10th	0.5	0.3	0.2	0.2
25th	6.3	3.5	1.0	0.9
50th (median time to transplant)	21.4	17.7	9.8	7.5
75th	Not Observed	Not Observed	Not Observed	Not Observed

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

^{**} Censored on 12/31/2022. 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: 01/01/2022 - 12/31/2022

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	6,508	12,985	42,365	285,031
Number of Acceptances	145	331	1,299	7,816
Expected Acceptances	90.9	232.1	938.3	7,816.0
Offer Acceptance Ratio*	1.58	1.42	1.38	1.00
95% Credible Interval**	[1.34, 1.85]			
PHS increased infectious risk				
Number of Offers	1,116	2,376	6,549	51,802
Number of Acceptances	36	81	237	1,498
Expected Acceptances	22.4	53.9	183.1	1,497.0
Offer Acceptance Ratio*	1.55	1.48	1.29	1.00
95% Credible Interval**	[1.10, 2.09]			
DCD donor				
Number of Offers	1,100	3,592	15,884	73,823
Number of Acceptances	26	28	215	914
Expected Acceptances	10.2	27.8	112.7	916.3
Offer Acceptance Ratio*	2.29	1.01	1.89	1.00
95% Credible Interval**	[1.52, 3.22]			
HCV+ donor				
Number of Offers	104	473	1,162	11,031
Number of Acceptances	3	11	50	381
Expected Acceptances	2.3	6.8	39.0	382.6
Offer Acceptance Ratio*	1.16	1.48	1.27	1.00
95% Credible Interval**	[0.38, 2.38]			
Hard-to-Place Livers (Over 50 Offers)				
Number of Offers	4,743	8,806	26,947	173,665
Number of Acceptances	18	32	212	1,085
Expected Acceptances	12.2	33.6	121.6	1,198.8
Offer Acceptance Ratio*	1.41	0.96	1.73	0.91
95% Credible Interval**	[0.86, 2.09]			
Donor more than 500 miles away				
Number of Offers	3,767	7,179	17,093	83,150
Number of Acceptances	20	48	234	942
Expected Acceptances	14.7	42.2	119.2	882.5
Offer Acceptance Ratio*	1.32	1.13	1.95	1.07
95% Credible Interval**	[0.83, 1.93]			

^{*} 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, [1.34, 1.85], indicates the location of CASF's true offer acceptance ratio with 95% probability. The best estimate is 58% more likely to accept an offer compared to national acceptance behavior, but CASF's performance could plausibly range from 34% higher acceptance up to 85% higher acceptance.



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Figure B10. Offer acceptance: Overall

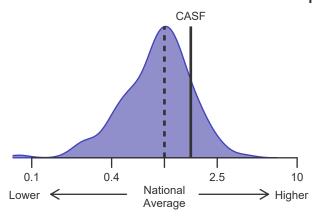


Figure B11. Offer acceptance: PHS increased infectious risk

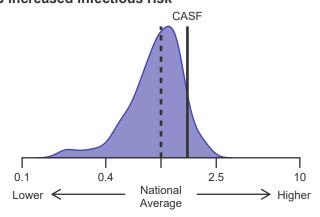
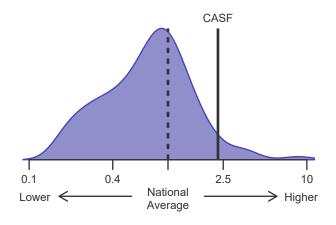


Figure B12. Offer acceptance: DCD Donor

Figure B13. Offer acceptance: HCV+ Donor



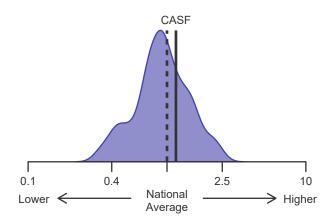
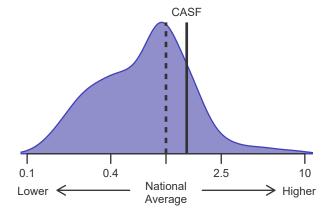
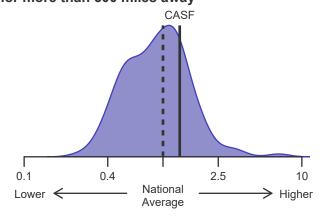


Figure B14. Offer acceptance: Offer number > 50 Figure B15. Offer acceptance: Donor more than 500 miles away







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C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2022 and 12/31/2022

Characteristic	Perce	Percentage in each category		
	Center (N=166)	Region (N=1,509)	U.S.	
	(14-166)	(14-1,509)	(N=8,924)	
Ethnicity/Race (%)*				
White	44.6	47.8	68.5	
African-American	4.8	2.8	7.0	
Hispanic/Latino	32.5	39.2	18.3	
Asian	16.9	7.9	4.4	
Other	1.2	2.3	1.8	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	2.0	1.9	
2-11 years	0.0	1.8	1.6	
12-17	0.0	1.2	1.4	
18-34	5.4	8.9	6.8	
35-49 years	13.3	19.4	21.7	
50-64 years	54.8	44.5	45.7	
65-69 years	19.3	15.2	14.9	
70+ years	7.2	7.1	5.8	
Gender (%)				
Male	59.6	61.0	62.6	
Female	40.4	39.0	37.4	

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



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C. Transplant Information

Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 01/01/2022 and 12/31/2022

Characteristic	Percei	Percentage in each category		
	Center (N=26)	Region (N=96)	U.S. (N=603)	
Ethnicity/Race (%)*				
White	69.2	55.2	74.1	
African-American	3.8	4.2	4.5	
Hispanic/Latino	15.4	28.1	16.3	
Asian	11.5	11.5	3.8	
Other	0.0	1.0	1.3	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	16.7	9.0	
2-11 years	0.0	3.1	4.5	
12-17	0.0	1.0	1.0	
18-34	11.5	11.5	10.8	
35-49 years	30.8	20.8	18.4	
50-64 years	30.8	30.2	37.1	
65-69 years	11.5	11.5	13.4	
70+ years	15.4	5.2	5.8	
Gender (%)				
Male	50.0	49.0	51.7	
Female	50.0	51.0	48.3	

^{*} 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 C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2022 and 12/31/2022

	Percentage in each category		
Characteristic	Center (N=166)	Region (N=1,509)	U.S. (N=8,924)
Blood Type (%)			
0	44.6	47.6	45.6
A	31.3	33.3	35.9
В	17.5	14.7	13.7
AB	6.6	4.4	4.9
Previous Transplant (%)			
Yes	3.6	4.8	4.3
No	96.4	95.2	95.7
Body Mass Index (%)			
0-20	9.0	13.3	11.1
21-25	31.9	29.4	26.3
26-30	27.1	29.0	29.5
31-35	21.1	16.6	18.7
36-40	8.4	7.2	8.8
41+	2.4	2.9	3.8
Unknown	0.0	1.7	1.6
Primary Disease (%)			
Acute Hepatic Necrosis	8.4	4.5	3.9
Non-Cholestatic Cirrhosis	60.2	46.6	51.1
Cholestatic Liver Disease/Cirrhosis	4.2	5.4	5.9
Biliary Atresia	2.4	1.9	1.8
Metabolic Diseases	0.6	2.3	2.3
Malignant Neoplasms	0.0	18.3	11.8
Other	24.1	21.0	23.3
Missing	0.0	0.1	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*			
Status 1A	5.4	3.8	3.0
Status 1B	0.0	1.4	1.2
MELD 6-10	16.3	13.7	10.2
MELD 11-14	7.2	6.5	6.8
MELD 15-20	13.9	15.0	15.2
MELD 21-30	22.3	21.3	30.3
MELD 31-40	29.5	26.5	24.7
PELD less than or equal to 10	0.0	1.2	1.0
PELD 11-14	0.0	0.1	0.1
PELD 15-20	0.0	0.3	0.4
PELD 21-30	0.0	0.3	0.4
PELD 31 or greater	0.0	0.3	0.2
Temporarily Inactive	0.0	0.0	0.0
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	58.4	53.6	57.6
Hospitalized	27.7	21.4	25.3
ICU	13.9	23.7	16.8
Unknown	0.0	1.3	0.3

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



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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 01/01/2022 and 12/31/2022

	Percentage in each category		
Characteristic	Center (N=26)	Region (N=96)	U.S. (N=603)
Blood Type (%)	(11 20)	(11 00)	(11 000)
0	38.5	51.0	46.8
Ä	50.0	38.5	41.8
В	7.7	8.3	9.5
AB	3.8	2.1	2.0
Previous Transplant (%)			
Yes	0.0	0.0	1.8
No	100.0	100.0	98.2
Body Mass Index (%)			
0-20	19.2	34.4	24.2
21-25	38.5	36.5	29.9
26-30	23.1	15.6	27.5
31-35	11.5	9.4	12.3
36-40	7.7	4.2	5.0
41+	0.0	0.0	0.8
Unknown	0.0	0.0	0.3
Primary Disease (%)	0.0	0.0	0.0
Acute Hepatic Necrosis	0.0	1.0	3.0
Non-Cholestatic Cirrhosis	53.8	34.4	42.5
Cholestatic Liver Disease/Cirrhosis	23.1	26.0	20.9
Biliary Atresia	0.0	18.8	11.1
Metabolic Diseases	0.0	2.1	1.8
Malignant Neoplasms	3.8	5.2	10.0
Other	19.2	12.5	10.8
Missing	0.0	0.0	0.0
Medical Urgency Statust/MELD/PELD at Transplant (%)*	0.0	0.0	0.0
Status 1A	0.0	0.0	2.0
Status 1B	0.0	1.0	1.0
MELD 6-10	26.9	20.8	24.0
MELD 11-14	15.4	25.0	19.9
MELD 15-20	42.3	21.9	26.4
MELD 21-30	11.5	11.5	12.9
MELD 31-40	3.8	1.0	1.0
	0.0	6.2	4.6
PELD less than or equal to 10 PELD 11-14	0.0	1.0	4.0 1.5
PELD 11-14 PELD 15-20	0.0	7.3	2.2
PELD 21-30	0.0	2.1 2.1	1.2
PELD 31 or greater	0.0		1.3
Temporarily Inactive	0.0	0.0	2.0
Recipient Medical Condition at Transplant (%)	04.0	00.0	00.4
Not Hospitalized	84.6	83.3	88.1
Hospitalized	15.4	15.6	8.5
ICU	0.0	1.0	3.5
Unknown	0.0	0.0	0.0

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



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C. Transplant Information

Table C3D. Deceased donor characteristics Transplants performed between 01/01/2022 and 12/31/2022

	Perce	Percentage in each category		
Donor Characteristic	Center (N=166)	Region (N=1,509)	U.S. (N=8,924)	
Cause of Death (%)				
Deceased: Stroke	34.3	26.1	25.4	
Deceased: MVA	10.2	14.2	12.4	
Deceased: Other	55.4	59.6	62.2	
Ethnicity/Race (%)*				
White	51.8	50.8	61.5	
African-American	10.8	12.2	18.9	
Hispanic/Latino	25.9	28.6	15.6	
Asian	9.6	6.1	2.9	
Other	1.8	2.3	1.1	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	0.8	0.8	
2-11 years	0.6	1.9	2.1	
12-17	3.6	4.6	4.5	
18-34	29.5	33.3	31.4	
35-49 years	36.1	29.6	30.4	
50-64 years	22.9	23.1	23.4	
65-69 years	2.4	4.2	4.3	
70+ years	4.8	2.6	3.1	
Gender (%)				
Male	57.8	65.8	62.5	
Female	42.2	34.2	37.5	
Blood Type (%)				
0	50.0	52.0	49.4	
A	29.5	33.3	36.5	
В	15.7	12.2	11.4	
AB	4.8	2.5	2.7	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C3L. Living donor characteristics
Transplants performed between 01/01/2022 and 12/31/2022

	Percei	Percentage in each category		
Donor Characteristic	Center	Region	U.S.	
	(N=26)	(N=96)	(N=603)	
Ethnicity/Race (%)*				
White	53.8	58.3	78.4	
African-American	0.0	1.0	3.6	
Hispanic/Latino	34.6	32.3	13.6	
Asian	11.5	7.3	3.6	
Other	0.0	1.0	0.7	
Not Reported	0.0	0.0	0.0	
Age (%)				
0-11 years	0.0	0.0	0.3	
12-17	0.0	0.0	0.5	
18-34	50.0	45.8	43.6	
35-49 years	26.9	33.3	41.6	
50-64 years	23.1	20.8	13.9	
65-69 years	0.0	0.0	0.0	
70+ years	0.0	0.0	0.0	
Gender (%)				
Male	26.9	40.6	41.5	
Female	73.1	59.4	58.5	
Blood Type (%)				
0	76.9	66.7	65.2	
A	23.1	27.1	28.4	
В	0.0	6.2	5.6	
AB	0.0	0.0	8.0	
Unknown	0.0	0.0	0.0	

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



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C. Transplant Information

Table C4D. Deceased donor transplant characteristics Transplants performed between 01/01/2022 and 12/31/2022

	Percentage in each category		
Transplant Characteristic	Center	Region	U.S.
	(N=166)	(N=1,509)	(N=8,924)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-5 hr	25.8	38.0	63.7
Deceased: 6-10 hr	51.7	43.1	28.6
Deceased: 11-15 hr	16.9	8.4	4.5
Deceased: 16-20 hr	5.6	1.8	1.0
Deceased: 21+ hr	0.0	0.0	0.1
Not Reported	0.0	8.7	2.0
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-5 hr	22.1	19.8	43.0
Deceased: 6-10 hr	59.7	58.3	49.7
Deceased: 11-15 hr	14.3	12.8	4.6
Deceased: 16-20 hr	3.9	3.0	1.1
Deceased: 21+ hr	0.0	0.1	0.2
Not Reported	0.0	6.0	1.4
Procedure Type (%)			
Single organ	89.2	88.8	89.7
Multi organ	10.8	11.2	10.3
Donor Location (%)			
Local Donation Service Area (DSA)	53.6	40.4	35.6
Another Donation Service Area (DSA)	46.4	59.6	64.4
Median Time in Hospital After Transplant	8.0 Days	9.0 Days	10.0 Days



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C. Transplant Information

Table C4L. Living donor transplant characteristics
Transplants performed between 01/01/2022 and 12/31/2022

Transplant Characteristic	Perce	Percentage in each category		
	Center	Region	U.S.	
	(N=26)	(N=96)	(N=603)	
Relation with Donor (%)				
Related	61.5	62.5	53.7	
Unrelated	38.5	37.5	44.4	
Not Reported	0.0	0.0	1.8	
Procedure Type (%)				
Single organ	100.0	100.0	99.8	
Multi organ	0.0	0.0	0.2	
Median Time in Hospital After Transplant	8.5 Days	10.0 Days	10.0 Days	



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C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

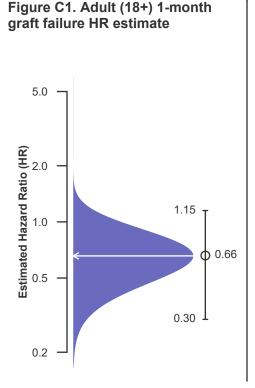
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	361	17,587
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.04%	96.76%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.71%	
Number of observed graft failures (including deaths) during the first month after transplant	7	563
Number of expected graft failures (including deaths) during the first month after transplant	11.70	
Estimated hazard ratio*	0.66	
95% credible interval for the hazard ratio**	[0.30, 1.15]	

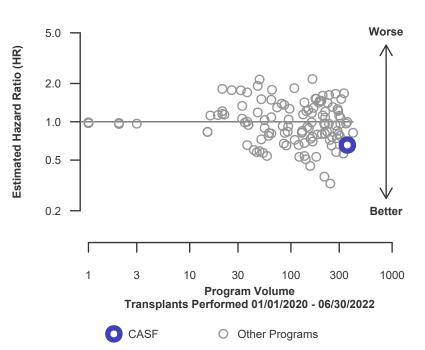
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 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, [0.30, 1.15], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 34% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 70% reduced risk up to 15% increased risk.









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C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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	302	16,486
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	97.99%	96.72%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.59%	
Number of observed graft failures (including deaths) during the first month after transplant	6	534
Number of expected graft failures (including deaths) during the first month after transplant	10.15	
Estimated hazard ratio*	0.66	
95% credible interval for the hazard ratio**	[0.28, 1.19]	

^{*} 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, [0.28, 1.19], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 34% lower risk

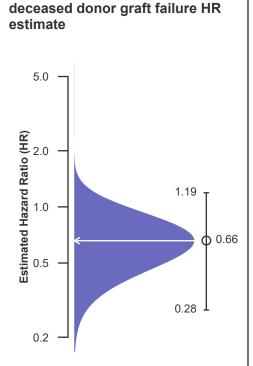
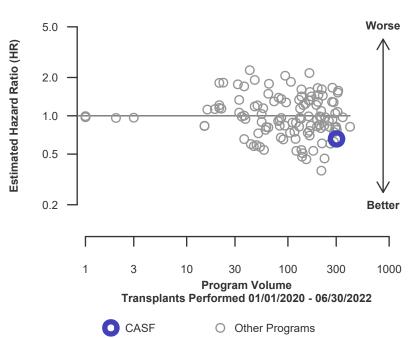


Figure C1D. Adult (18+) 1-month





of graft failure compared to an average program, but CASF's performance could plausibly range from 72% reduced risk up to 19% increased risk.



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C. Transplant Information

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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

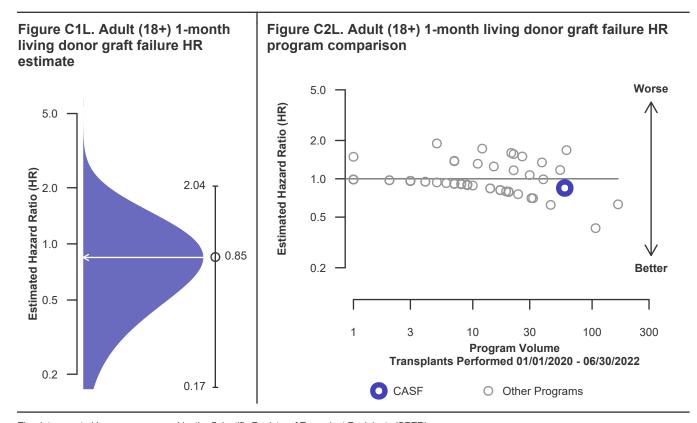
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	59	1,101
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.28%	97.33%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.33%	
Number of observed graft failures (including deaths) during the first month after transplant	1	29
Number of expected graft failures (including deaths) during the first month after transplant	1.55	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.17, 2.04]	

^{*} 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, [0.17, 2.04], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 15% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 83% reduced risk up to 104% 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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

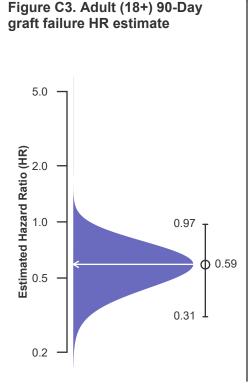
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	361	17,587
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	97.15%	95.02%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.78%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	10	848
Number of expected graft failures (including deaths) during the first 90 days after transplant	18.27	
Estimated hazard ratio*	0.59	
95% credible interval for the hazard ratio**	[0.31, 0.97]	

^{*} 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, 0.97], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 41% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 69% reduced risk up to 3% reduced risk.



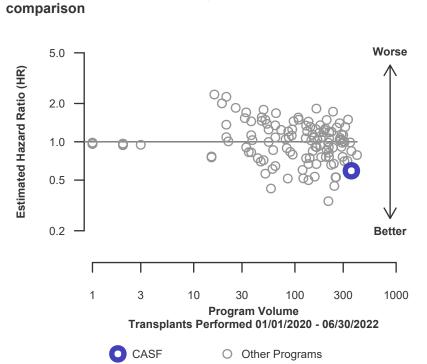


Figure C4. Adult (18+) 90-Day graft failure HR program



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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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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	302	16,486
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	97.28%	94.97%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.60%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	8	802
Number of expected graft failures (including deaths) during the first 90 days after transplant	15.79	
Estimated hazard ratio*	0.56	
95% credible interval for the hazard ratio**	[0.27, 0.96]	

^{*} 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, 0.96], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 44% lower risk

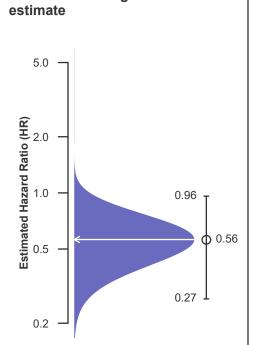
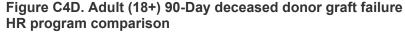
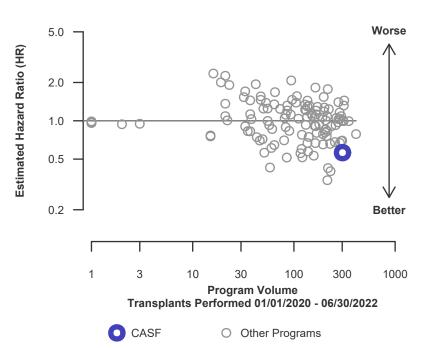


Figure C3D. Adult (18+) 90-Day

deceased donor graft failure HR





of graft failure compared to an average program, but CASF's performance could plausibly range from 73% reduced risk up to 4% reduced risk.



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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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

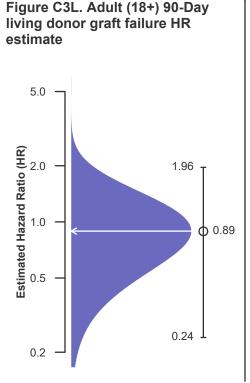
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	59	1,101
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	96.49%	95.67%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.68%	
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	46
Number of expected graft failures (including deaths) during the first 90 days after transplant	2.48	
Estimated hazard ratio*	0.89	
95% credible interval for the hazard ratio**	[0.24, 1.96]	

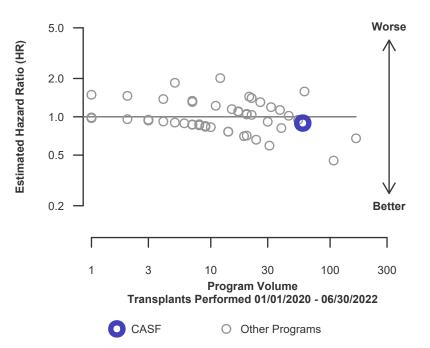
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 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, [0.24, 1.96], 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 76% reduced risk up to 96% 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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

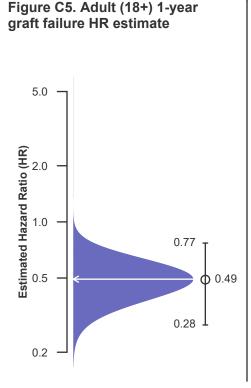
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	361	17,587
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	95.86%	91.74%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.20%	
Number of observed graft failures (including deaths) during the first year after transplant	13	1,300
Number of expected graft failures (including deaths) during the first year after transplant	28.43	
Estimated hazard ratio*	0.49	
95% credible interval for the hazard ratio**	[0.28, 0.77]	

^{*} 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, [0.28, 0.77], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 51% lower risk

^{**} The 95% credible interval, [0.28, 0.77], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 51% lower risk of graft failure compared to an average program, but CASF's performance could plausibly range from 72% reduced risk up to 23% reduced risk.



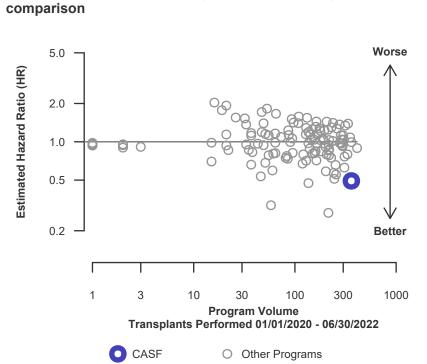


Figure C6. Adult (18+) 1-year graft failure HR program



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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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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	302	16,486
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	95.73%	91.66%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	90.86%	
Number of observed graft failures (including deaths) during the first year after transplant	11	1,231
Number of expected graft failures (including deaths) during the first year after transplant	24.69	
Estimated hazard ratio*	0.49	
95% credible interval for the hazard ratio**	[0.26, 0.79]	

^{*} 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, [0.26, 0.79], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 51% lower risk

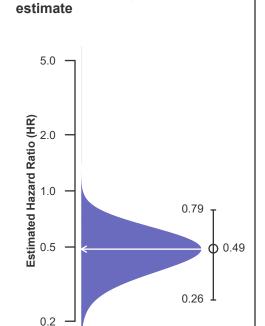
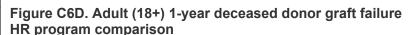
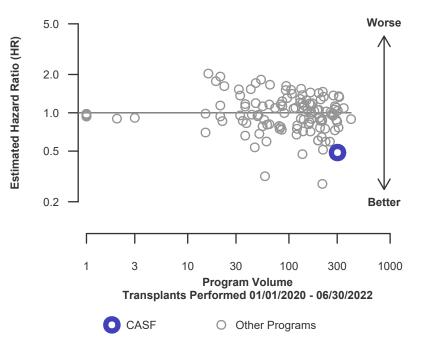


Figure C5D. Adult (18+) 1-year

deceased donor graft failure HR





of graft failure compared to an average program, but CASF's performance could plausibly range from 74% reduced risk up to 21% reduced risk.



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C. Transplant Information

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

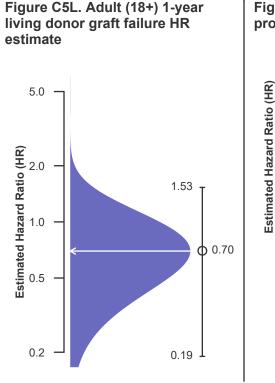
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

	CASF	U.S.
Number of transplants evaluated	59	1,101
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	96.49%	92.95%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	92.95%	
Number of observed graft failures (including deaths) during the first year after transplant	2	69
Number of expected graft failures (including deaths) during the first year after transplant	3.74	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.19, 1.53]	

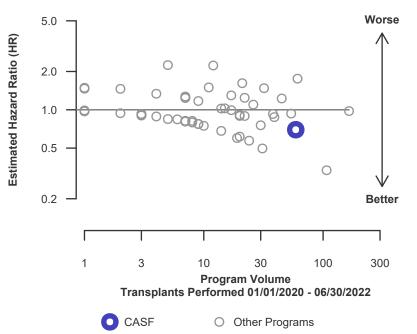
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 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, [0.19, 1.53], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 30% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 81% reduced risk up to 53% 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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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	320	15,233
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)		96.55%
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)	96.23%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	3	452
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	10.16	
Estimated hazard ratio*	0.41	
95% credible interval for the hazard ratio**	[0.13, 0.84]	

^{*} 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, 0.84], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 59% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 87% reduced risk up to 16% reduced risk.

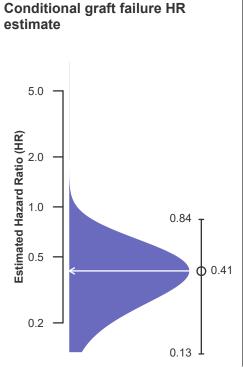
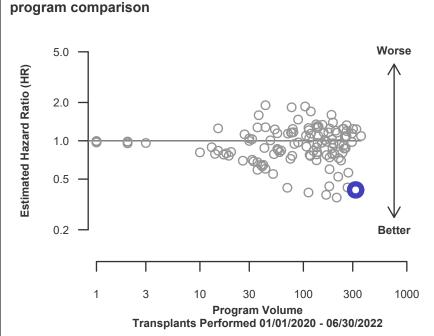


Figure C7. Adult (18+) 1-year



O Other Programs

CASF

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



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C. Transplant Information

Table C8D. Adult (18+) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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	267	14,270
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)	98.40%	96.51%
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)	96.05%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	3	429
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	8.90	
Estimated hazard ratio*	0.46	
95% credible interval for the hazard ratio**	[0.15, 0.94]	

^{*} 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, [0.15, 0.94], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 54% lower risk

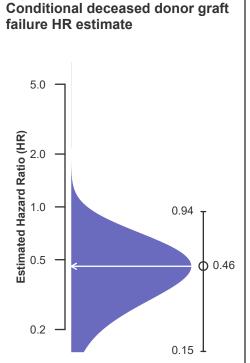
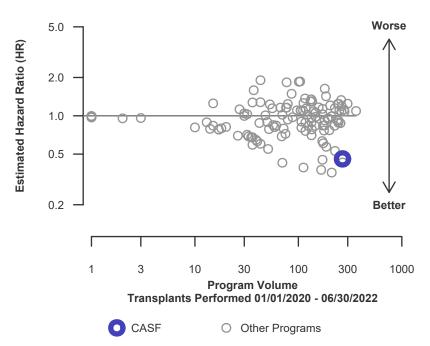


Figure C7D. Adult (18+) 1-year





of graft failure compared to an average program, but CASF's performance could plausibly range from 85% reduced risk up to 6% reduced risk.



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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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Deaths and retransplants are considered graft failures

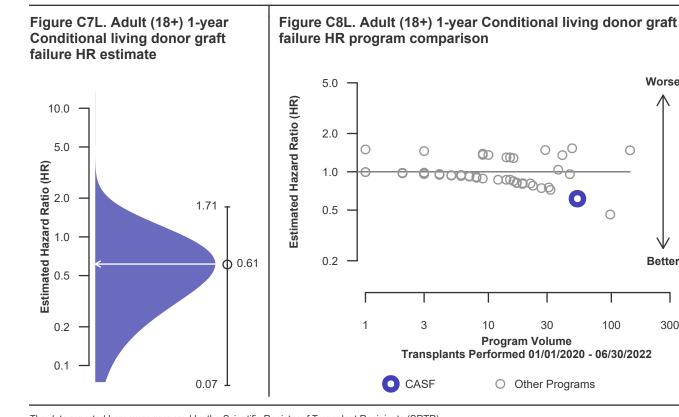
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	53	963
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%	97.15%
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)	97.15%	
Number of observed graft failures (including deaths) from day 91 through day 365 after transplant	0	23
Number of expected graft failures (including deaths) from day 91 through day 365 after transplant	1.25	
Estimated hazard ratio*	0.61	
95% credible interval for the hazard ratio**	[0.07, 1.71]	

^{*} 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, [0.07, 1.71], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 39% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 93% reduced risk up to 71% increased risk.



Worse

Better

300

0

0

100



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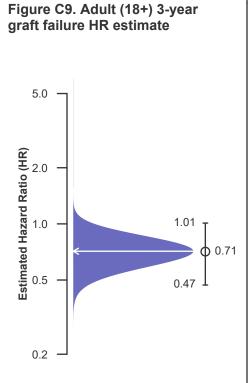
Table C9. Adult (18+) 3-year survival with a functioning graft Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	376	17,821
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	91.67%	87.29%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.88%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	25	1,614
Number of expected graft failures (including deaths) during the first 3 years after transplant	35.84	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.47, 1.01]	

^{*} 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, [0.47, 1.01], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 29% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 53% reduced risk up to 1% increased risk.



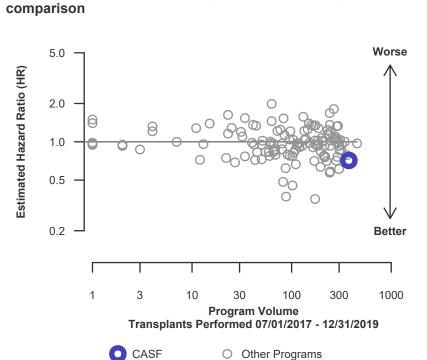


Figure C10. Adult (18+) 3-year graft failure HR program



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C. Transplant Information

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

Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures

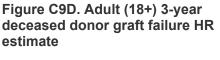
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	319	16,891
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	90.99%	87.22%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	86.51%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	22	1,538
Number of expected graft failures (including deaths) during the first 3 years after transplant	30.71	
Estimated hazard ratio*	0.73	
95% credible interval for the hazard ratio**	[0.47, 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, [0.47, 1.06], 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 53% reduced risk up to 6% increased risk.



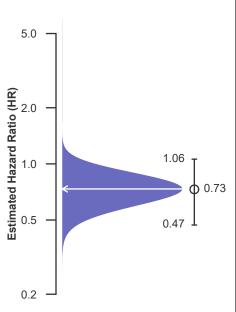
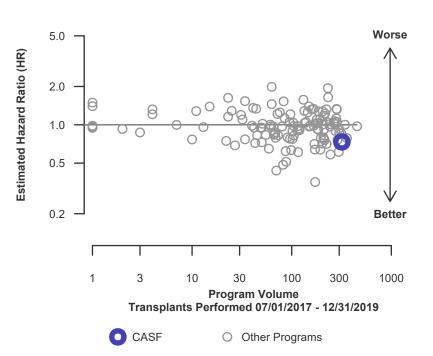


Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison





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C. Transplant Information

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

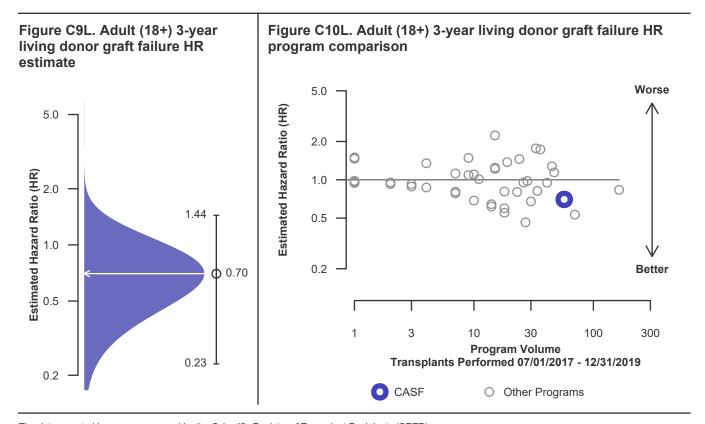
Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	57	930
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	94.74%	88.93%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.94%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	76
Number of expected graft failures (including deaths) during the first 3 years after transplant	5.13	
Estimated hazard ratio*	0.70	
95% credible interval for the hazard ratio**	[0.23, 1.44]	

^{*} 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, [0.23, 1.44], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 30% lower risk

of graft failure compared to an average program, but CASF's performance could plausibly range from 77% reduced risk up to 44% 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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C11. Pediatric (<18) 1-month graft failure HR estimate

Figure C12. Pediatric (<18) 1-month graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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C. Transplant Information

Table C10D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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 01/01/2020-06/30/2022

Figure C11D. Pediatric (<18)
1-month deceased donor graft failure HR estimate

Figure C12D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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C. Transplant Information

Table C10L. Pediatric (<18) 1-month survival with a functioning living donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

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 01/01/2020-06/30/2022



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C. Transplant Information

Table C11. Pediatric (<18) 90-Day survival with a functioning graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C13. Pediatric (<18) 90-Day graft failure HR estimate

Figure C14. Pediatric (<18) 90-Day graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C11D. Pediatric (<18) 90-Day survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C13D. Pediatric (<18) 90-Day deceased donor graft failure HR estimate

Figure C14D. Pediatric (<18) 90-Day deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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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 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

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 01/01/2020-06/30/2022



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C. Transplant Information

Table C12. Pediatric (<18) 1-year survival with a functioning graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C15. Pediatric (<18) 1-year graft failure HR estimate

Figure C16. Pediatric (<18) 1-year graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C12D. Pediatric (<18) 1-year survival with a functioning deceased donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C15D. Pediatric (<18) 1-year deceased donor graft failure HR estimate Figure C16D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C12L. Pediatric (<18) 1-year survival with a functioning living donor graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

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 01/01/2020-06/30/2022



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Table C13. Pediatric (<18) 1-year Conditional survival with a functioning graft
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C17. Pediatric (<18) 1-year Conditional graft failure HR estimate

Figure C18. Pediatric (<18) 1-year Conditional graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C13D. Pediatric (<18) 1-year Conditional survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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 01/01/2020-06/30/2022

Figure C17D. Pediatric (<18)
1-year Conditional deceased
donor graft failure HR estimate

Figure C18D. Pediatric (<18) 1-year Conditional deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C13L. Pediatric (<18) 1-year Conditional survival with a functioning living donor graft Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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 01/01/2020-06/30/2022

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 01/01/2020-06/30/2022



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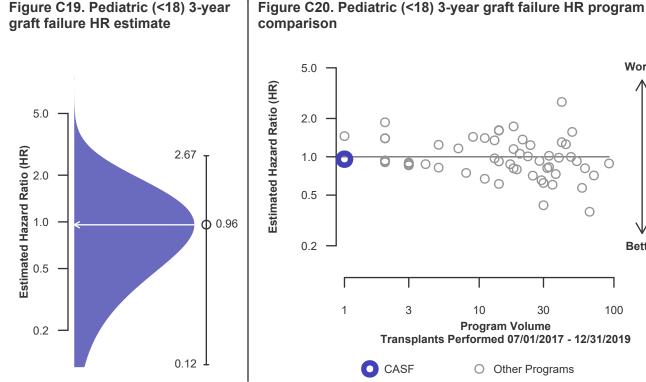
Table C14. Pediatric (<18) 3-year survival with a functioning graft Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

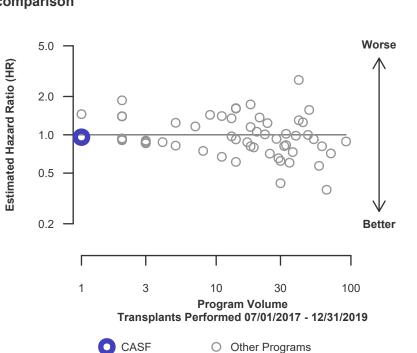
	CASF	U.S.
Number of transplants evaluated	1	1,329
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	88.22%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.91%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	115
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.09	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

^{*} The hazard ratio provides an estimate of how University of California 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, 2.67], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 4% lower risk of

graft failure compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 167% increased risk.







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

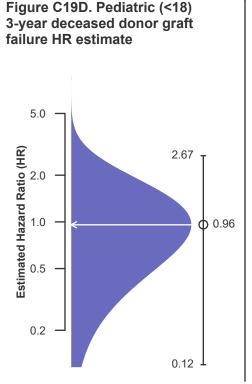
Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CASF	U.S.
Number of transplants evaluated	1	1,153
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	87.90%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.91%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	102
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.09	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.67]	

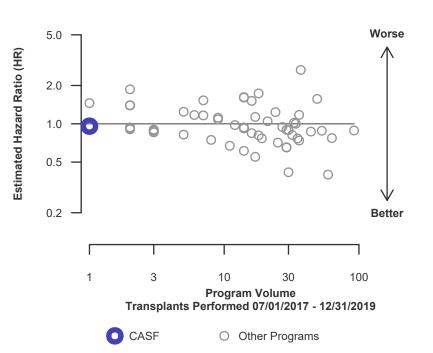
^{*} The hazard ratio provides an estimate of how University of California San Francisco Medical Center's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of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

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









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Table C14L. Pediatric (<18) 3-year survival with a functioning living donor graft Single organ transplants performed between 07/01/2017 and 12/31/2019 Deaths and retransplants are considered graft failures 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 07/01/2017-12/31/2019

Figure C19L. Pediatric (<18)
3-year living donor graft failure
HR estimate

Figure C20L. Pediatric (<18) 3-year living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2017-12/31/2019



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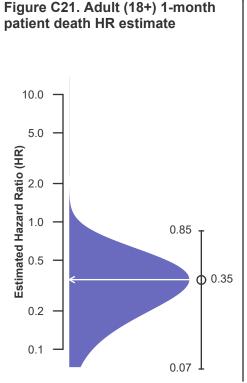
Table C15. Adult (18+) 1-month patient survival

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

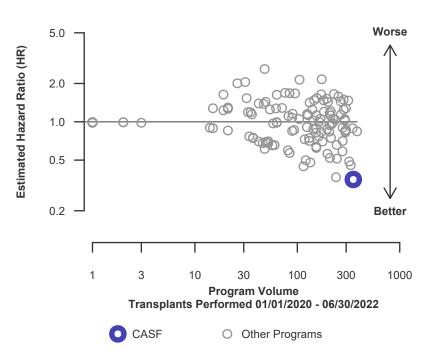
	CASF	U.S.
Number of transplants evaluated	352	16,942
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.72%	98.08%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	98.12%	
Number of observed deaths during the first month after transplant	1	322
Number of expected deaths during the first month after transplant	6.52	
Estimated hazard ratio*	0.35	
95% credible interval for the hazard ratio**	[0.07, 0.85]	

^{*} 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, [0.07, 0.85], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 65% lower risk







of patient death compared to an average program, but CASF's performance could plausibly range from 93% reduced risk up to 15% reduced risk.



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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

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

	CASF	U.S.
Number of transplants evaluated	293	15,852
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.66%	98.01%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.93%	
Number of observed deaths during the first month after transplant	1	312
Number of expected deaths during the first month after transplant	5.98	
Estimated hazard ratio*	0.38	
95% credible interval for the hazard ratio**	[0.08, 0.91]	

^{*} 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.

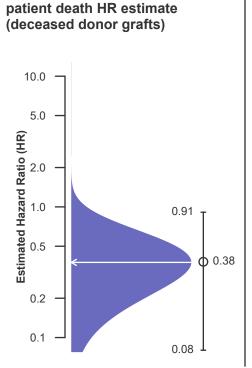
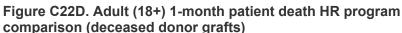
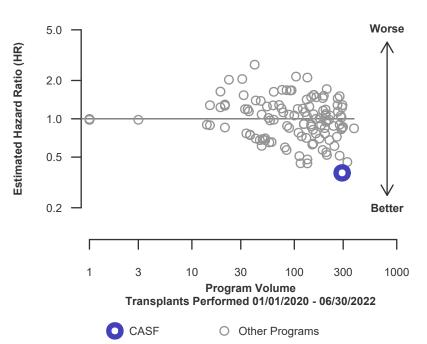


Figure C21D. Adult (18+) 1-month





^{**} The 95% credible interval, [0.08, 0.91], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 62% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 92% reduced risk up to 9% reduced risk.



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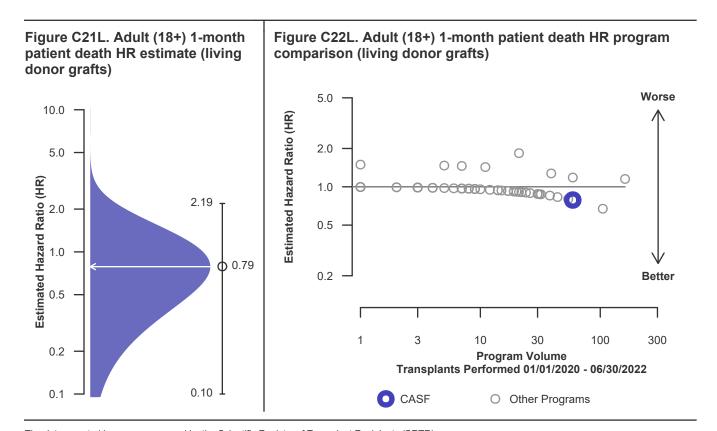
Table C15L. Adult (18+) 1-month patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	59	1,090
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.07%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.08%	
Number of observed deaths during the first month after transplant	0	10
Number of expected deaths during the first month after transplant	0.54	
Estimated hazard ratio*	0.79	
95% credible interval for the hazard ratio**	[0.10, 2.19]	

^{*} 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, [0.10, 2.19], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 21% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 90% reduced risk up to 119% increased risk.





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

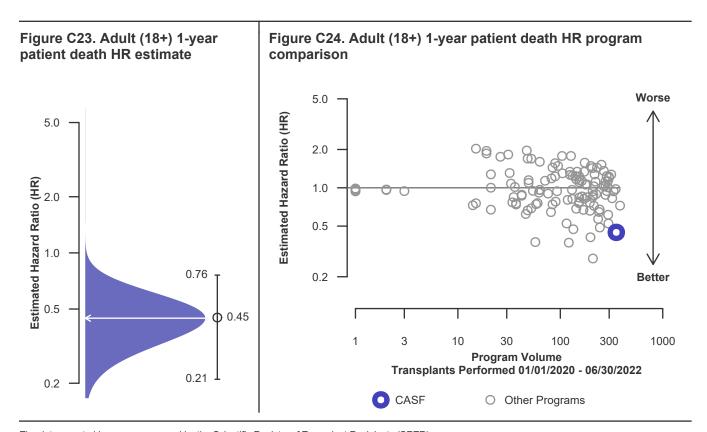
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	352	16,942
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.17%	93.71%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	93.34%	
Number of observed deaths during the first year after transplant	8	937
Number of expected deaths during the first year after transplant	20.40	
Estimated hazard ratio*	0.45	
95% credible interval for the hazard ratio**	[0.21, 0.76]	

^{*} 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, [0.21, 0.76], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 55% lower risk

of patient death compared to an average program, but CASF's performance could plausibly range from 79% reduced risk up to 24% reduced risk.





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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

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

	CASF	U.S.
Number of transplants evaluated	293	15,852
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	96.95%	93.61%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	92.97%	
Number of observed deaths during the first year after transplant	7	892
Number of expected deaths during the first year after transplant	17.92	
Estimated hazard ratio*	0.45	
95% credible interval for the hazard ratio**	[0.21, 0.79]	

^{*} 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, [0.21, 0.79], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 55% lower risk

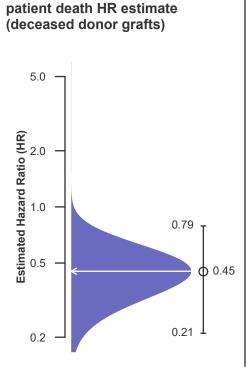
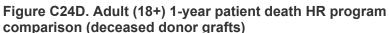
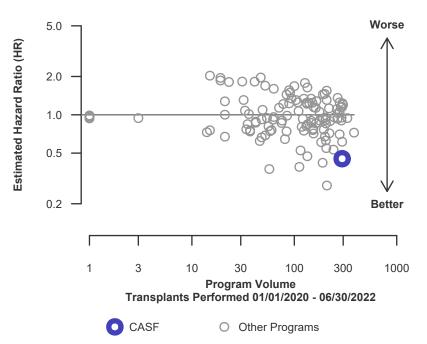


Figure C23D. Adult (18+) 1-year





of patient death compared to an average program, but CASF's performance could plausibly range from 79% reduced risk up to 21% reduced risk.



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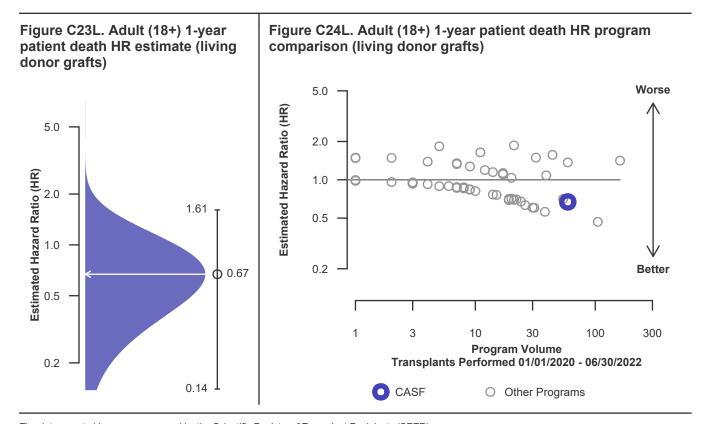
Table C16L. Adult (18+) 1-year patient survival (living donor graft recipients)

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	59	1,090
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.21%	95.20%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	95.21%	
Number of observed deaths during the first year after transplant	1	45
Number of expected deaths during the first year after transplant	2.48	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.14, 1.61]	

^{*} 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, [0.14, 1.61], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 33% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 86% reduced risk up to 61% increased risk.





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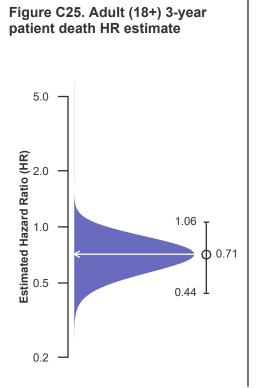
Table C17. Adult (18+) 3-year patient survival

Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

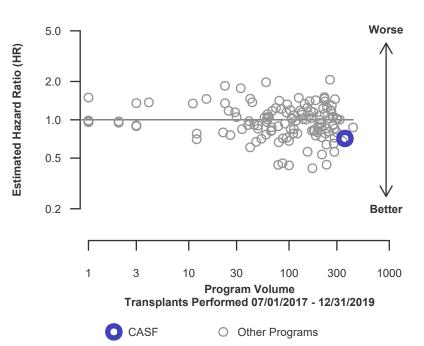
	CASF	U.S.
Number of transplants evaluated	361	17,167
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	93.69%	89.26%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	89.34%	
Number of observed deaths during the first 3 years after transplant	18	1,233
Number of expected deaths during the first 3 years after transplant	26.03	
Estimated hazard ratio*	0.71	
95% credible interval for the hazard ratio**	[0.44, 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 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, [0.44, 1.06], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 29% lower risk







of patient death compared to an average program, but CASF's performance could plausibly range from 56% reduced risk up to 6% increased risk.



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

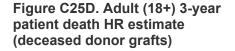
Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

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

	CASF	U.S.
Number of transplants evaluated	305	16,248
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	92.74%	89.10%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.81%	
Number of observed deaths during the first 3 years after transplant	17	1,187
Number of expected deaths during the first 3 years after transplant	22.76	
Estimated hazard ratio*	0.77	
95% credible interval for the hazard ratio**	[0.46, 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 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, 1.15], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 23% lower risk



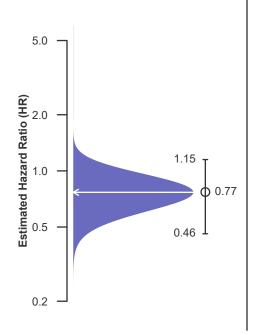
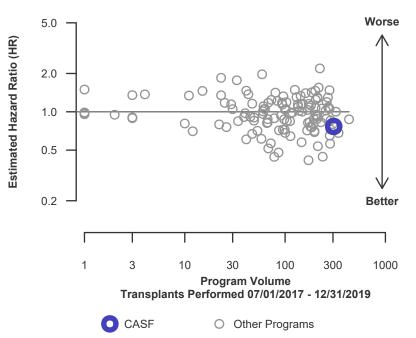


Figure C26D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)



of patient death compared to an average program, but CASF's performance could plausibly range from 54% reduced risk up to 15% increased risk.



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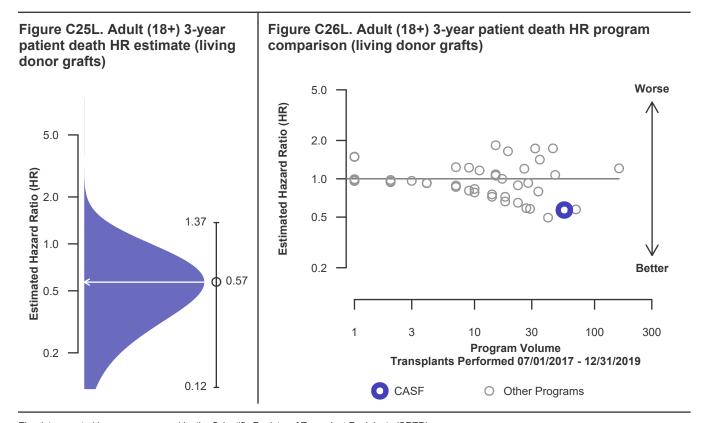
Table C17L. Adult (18+) 3-year patient survival (living donor graft recipients)

Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	56	919
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	98.21%	92.26%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	92.27%	
Number of observed deaths during the first 3 years after transplant	1	46
Number of expected deaths during the first 3 years after transplant	3.28	
Estimated hazard ratio*	0.57	
95% credible interval for the hazard ratio**	[0.12, 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 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, 1.37], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 43% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 37% increased risk.





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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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 01/01/2020-06/30/2022

Figure C27. Pediatric (<18) 1-month patient death HR estimate

Figure C28. Pediatric (<18) 1-month patient death HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C18D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C27D. Pediatric (<18)
1-month patient death HR
estimate (deceased donor grafts)

Figure C28D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C18L. Pediatric (<18) 1-month patient survival (living donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

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 01/01/2020-06/30/2022



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

Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022 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 01/01/2020-06/30/2022

Figure C29. Pediatric (<18) 1-year patient death HR estimate

Figure C30. Pediatric (<18) 1-year patient death HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C19D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

Figure C29D. Pediatric (<18)
1-year patient death HR estimate (deceased donor grafts)

Figure C30D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2020-06/30/2022



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Table C19L. Pediatric (<18) 1-year patient survival (living donor graft recipients)
Single organ transplants performed between 01/01/2020 and 03/12/2020, and 06/13/2020 and 06/30/2022
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 01/01/2020-06/30/2022

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 01/01/2020-06/30/2022



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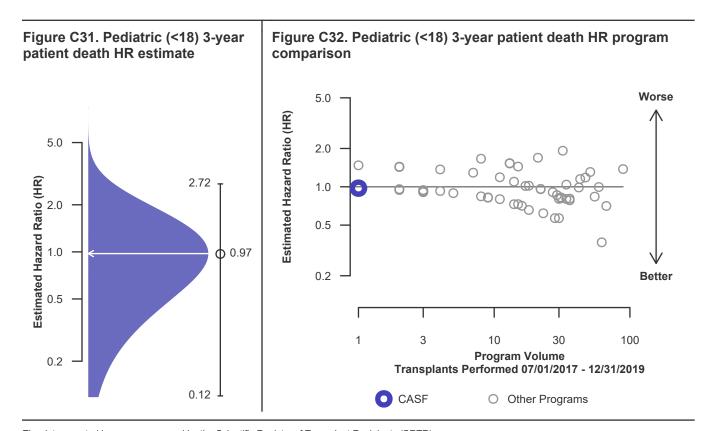
Table C20. Pediatric (<18) 3-year patient survival

Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	1	1,242
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	92.16%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.94%	
Number of observed deaths during the first 3 years after transplant	0	64
Number of expected deaths during the first 3 years after transplant	0.05	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

^{*} 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, 2.72], indicates the location of ĆASF's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 172% increased risk.





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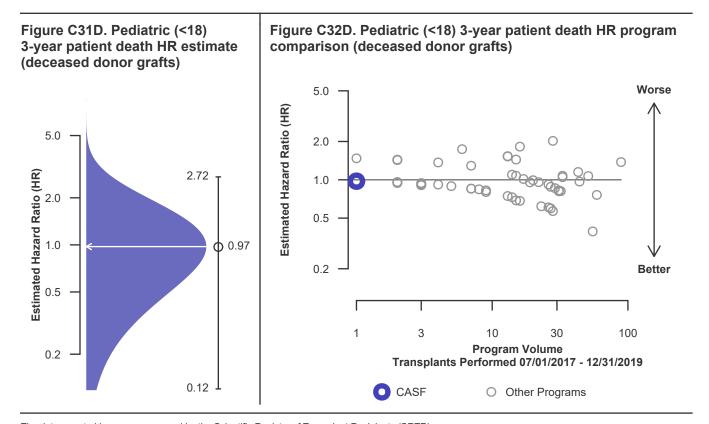
Table C20D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2017 and 12/31/2019 Retransplants excluded

	CASF	U.S.
Number of transplants evaluated	1	1,068
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	91.92%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	91.94%	
Number of observed deaths during the first 3 years after transplant	0	56
Number of expected deaths during the first 3 years after transplant	0.05	
Estimated hazard ratio*	0.97	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

^{*} 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, 2.72], indicates the location of CASF's true hazard ratio with 95% probability. The best estimate is 3% lower risk of patient death compared to an average program, but CASF's performance could plausibly range from 88% reduced risk up to 172% increased risk.





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Table C20L. Pediatric (<18) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2017 and 12/31/2019 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 07/01/2017-12/31/2019

Figure C31L. Pediatric (<18)
3-year patient death HR estimate (living donor grafts)

Figure C32L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2017-12/31/2019



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Table C21. Multi-organ transplant graft survival: 01/01/2020 - 06/30/2022

Adult (18+) Transplants First-Year Outcomes

Transplant Type	Transplants Performed	Liver Graft Failures	Estimated Liver Graft Survival	
	CASF-TX1 USA	CASF-TX1 USA	CASF-TX1 USA	
Kidney-Liver	37 1,905	3 200	91.9% 89.5%	

Pediatric (<18) Transplants

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

Table C22. Multi-organ transplant patient survival: 01/01/2020 - 06/30/2022

Adult (18+) Transplants First-Year Outcomes

Transplant Type	-	splants formed Patient Deaths		Estimated Patient Survival		
	CASF-TX1	USA	CASF-TX1	USA	CASF-TX1	USA
Kidney-Liver	37	1,905	3	189	91.9%	90.1%

Pediatric (<18) Transplants

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



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D. Living Donor Information

Table D1. Living donor summary: 01/01/2020 - 12/31/2022

		This Center	r	U	nited State	es
Living Donor Follow-Up	01/2020- 12/2020	01/2021- 12/2021	01/2022- 06/2022	01/2020- 12/2020	01/2021- 12/2021	01/2022- 06/2022
Number of Living Donors	27	24	16	485	566	294
6-Month Follow-Up Donors due for follow-up	7	24	13	127	566	241
Timely clinical data	7 100.0%	22 91.7%	9 69.2%	105 82.7%	501 88.5%	198 82.2%
Timely lab data	7 100.0%	19 79.2%	8 61.5%	109 85.8%	497 87.8%	196 81.3%
12-Month Follow-Up Donors due for follow-up	20	21		359	515	
Timely clinical data	20 100.0%	19 90.5%		299 83.3%	419 81.4%	
Timely lab data	19 95.0%	17 81.0%		300 83.6%	407 79.0%	
24-Month Follow-Up Donors due for follow-up	24			442		
Timely clinical data	17 70.8%			324 73.3%		
Timely lab data	16 66.7%			309 69.9%		

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