

Center Code: CAPC Transplant Program (Organ): Heart Release Date: January 6, 2022 Based on Data Available: Oct 31, 2021

Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

SRTR Program-Specific Report

http://www.srtr.org

### 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, 1-year, 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 and July 2021. Theses reports made adjustments to transplant program and OPO performance metrics so that data beyond the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

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

Posttransplant Outcomes (including 1-month, 1-year, 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 & 1-year Patient and Graft Survival Evaluations: Transplants 7/1/2018-3/12/2020, follow-up through 3/12/2020. Transplants 6/13/2020-12/31/2020, follow-up through 6/30/2021.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2016-6/30/2018; follow-up through 3/12/2020.

Pre-Transplant Mortality Rate (formerly called Waitlist Mortality Rate): Evaluation cohorts will exclude March 13, 2020 through June 12, 2020, inclusive of March 13 and June 12:

Days after listing (and before transplant) between 7/1/2019-3/12/2020 and 6/13/2020-6/30/2021.



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Transplant Rate: Evaluation cohorts will exclude March 13, 2020 through June 12, 2020, inclusive of March 13 and June 12:

Candidates on the waitlist 7/1/2019-3/12/2020 and 6/13/2020-6/30/2021.

Overall Rate of Mortality After Listing: Evaluation cohorts will exclude March 13, 2020 through June 12, 2020, inclusive of March 13 and June 12:

Evaluation period: 7/1/2019-3/12/2020 and 6/13/2020-6/30/2021.

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

Offers received 7/1/2020-6/30/2021.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on January 6, 2022. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's (OPTN) Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for July 2022.

As with the July 2021 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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### **User Guide**

This report contains a wide range of useful information about the heart transplant program at Lucile Salter Packard Children's Hospital at Stanford. 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 deceased donor transplant rate at this program was 158.9 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. Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

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

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2015 and 12/31/2020. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.3 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2021 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 of offers.



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

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

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

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

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



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### **A. Program Summary**

Figure A1. Waiting list and transplant activity

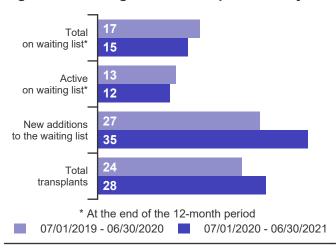


Table A1. Census of transplant recipients

Recipients	07/01/2019- 06/30/2020	07/01/2020- 06/30/2021
Transplanted at this center	24	28
Followed by this center*	160	155
transplanted at this program	n 129	128
transplanted elsewhere	31	27

<sup>\*</sup> Recipients followed are transplant recipients for whom the center has submitted a post-transplant follow-up form for a transplant that took place before the 12-month interval for each column.

Figure A2. Transplant rates 07/01/2019 - 03/12/2020, 06/13/2020 - 06/30/2021

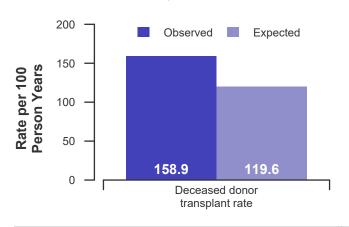


Figure A3. Pre-transplant mortality rates 07/01/2019 - 03/12/2020, 06/13/2020 - 06/30/2021

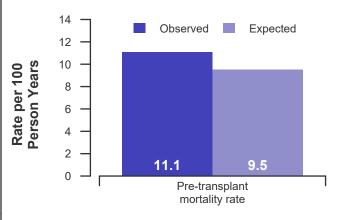


Figure A4. First-year adult graft and patient survival: 07/01/2018 - 03/12/2020, 06/13/2020 - 12/31/2020

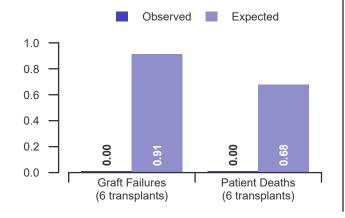
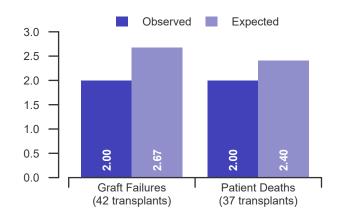


Figure A5. First-year pediatric graft & patient survival: 07/01/2018 - 03/12/2020, 06/13/2020 - 12/31/2020





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Table B1. Waiting list activity summary: 07/01/2019 - 06/30/2021

		nts for center	Activity for 07/01/2020 to 06/30/2021 as percent of registrants on waiting list on 07/01/2020			
Waiting List Registrations	07/01/2019- 06/30/2020	07/01/2020- 06/30/2021	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	20	17	100.0	100.0	100.0	
New listings at this center	27	35	205.9	199.0	145.1	
Removals						
Transferred to another center	0	1	5.9	2.8	2.6	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	24	28	164.7	169.0	109.0	
Died	0	4	23.5	5.9	6.3	
Transplanted at another center	0	0	0.0	0.8	0.9	
Deteriorated	4	0	0.0	6.6	8.3	
Recovered	1	2	11.8	6.9	6.1	
Other reasons	1	2	11.8	9.4	8.7	
On waiting list at end of period	17	15	88.2	97.7	103.2	

<sup>\*</sup> These patients were removed from waiting list with removal code indicating transplant; this may not equal the number of transplants performed at this center during the specified period.



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2020 and 06/30/2021

Domographia Characteristic		ting List Regis		All Waiting List Registrations on 06/30/2021 (%)			
Demographic Characteristic	This Center (N=35)	OPTN Region (N=782)	U.S. (N=5,108)	This Center (N=15)	OPTN Region (N=384)	U.S. (N=3,633)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	51.4	47.6	57.1	33.3	51.0	56.8	
African-American	5.7	15.1	26.3	33.3	15.1	28.0	
Hispanic/Latino	40.0	25.4	11.3	33.3	25.3	10.8	
Asian	2.9	9.2	3.9	0.0	6.5	3.1	
Other	0.0	2.7	1.4	0.0	2.1	1.2	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	22.9	4.1	5.2	6.7	4.7	4.3	
2-11 years	25.7	4.0	4.2	46.7	6.0	4.5	
12-17 years	40.0	4.0	4.1	20.0	3.1	3.2	
18-34 years	11.4	10.6	10.1	26.7	14.1	11.8	
35-49 years	0.0	17.9	17.8	0.0	20.6	22.0	
50-64 years	0.0	40.4	41.3	0.0	38.3	43.1	
65-69 years	0.0	14.3	14.1	0.0	11.2	10.1	
70+ years	0.0	4.7	3.2	0.0	2.1	1.0	
Gender (%)							
Male	62.9	72.9	71.6	60.0	70.8	75.7	
Female	37.1	27.1	28.4	40.0	29.2	24.3	

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



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Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2020 and 06/30/2021

Medical Characteristic		iting List Regi 020 to 06/30/2			All Waiting List Registrations on 06/30/2021 (%)			
medical Characteristic	This Center (N=35)	OPTN Region (N=782)	U.S. (N=5,108)	This Center (N=15)	OPTN Region (N=384)	U.S. (N=3,633)		
All (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Blood Type (%)								
Ο	45.7	45.7	45.3	73.3	66.9	60.5		
A	34.3	35.9	36.3	20.0	24.2	28.0		
В	14.3	13.9	14.2	0.0	6.5	10.0		
AB	5.7	4.5	4.2	6.7	2.3	1.5		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Previous Transplant (%)								
Yes	14.3	4.7	3.9	6.7	4.7	3.6		
No	85.7	95.3	96.1	93.3	95.3	96.4		
Unknown	0.0	0.0	0.0	0.0	0.0	0.0		
Primary Disease (%)								
Cardiomyopathy	31.4	55.1	57.5	20.0	50.8	56.5		
Coronary Artery Disease	0.0	25.4	24.9	0.0	24.2	25.8		
Retransplant/Graft Failure	14.3	4.3	3.5	6.7	3.9	2.9		
Valvular Heart Disease	0.0	1.2	1.0	0.0	0.5	1.0		
Congenital Heart Disease	54.3	10.6	10.9	73.3	17.4	11.5		
Other	0.0	3.3	2.2	0.0	3.1	2.3		
Missing	0.0	0.0	0.0	0.0	0.0	0.0		
Medical Urgency Status at Listin	g (%)							
Status 1A	51.4	5.8	7.9	26.7	4.9	5.8		
Status 1B	11.4	3.2	3.1	13.3	8.6	10.9		
Status 2	22.9	2.4	2.3	46.7	17.2	14.1		
Adult Status 1	0.0	4.7	4.5	0.0	0.3	0.4		
Adult Status 2	2.9	20.7	20.2	0.0	2.9	3.4		
Adult Status 3	2.9	19.4	8.8	0.0	6.8	4.1		
Adult Status 4	5.7	24.2	31.4	13.3	30.2	34.5		
Adult Status 5	0.0	3.3	3.4	0.0	4.9	3.6		
Adult Status 6	0.0	14.2	16.9	0.0	21.6	20.7		
Temporarily Inactive	2.9	2.0	1.5	0.0	2.6	2.6		



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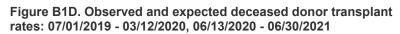
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Table B4D. Deceased donor transplant rates: 07/01/2019 - 03/12/2020, 06/13/2020 - 06/30/2021

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	20	79	443	3,797
Person Years**	30.2	135.8	701.5	6,364.9
Removals for Transplant	48	270	1,090	6,519
Adult (18+) Candidates				
Count on waiting list at start*	7	64	385	3,390
Person Years**	7.0	109.8	601.8	5,615.4
Removals for transpant	5	219	953	5,628
Pediatric (<18) Candidates				
Count on waiting list at start*	13	15	58	407
Person Years**	23.2	25.9	99.7	749.5
Removals for transplant	43	51	137	891

<sup>\*</sup> 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.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, removal from the waiting list or June 30. Person years excludes time on the waiting list between March 13, 2020 and June 12, 2020.



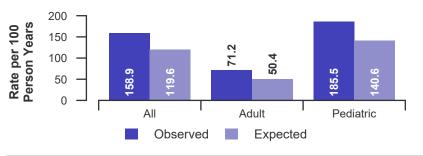


Figure B3D. Observed adult (18+) and pediatric (<18) deceased donor transplant rates: 07/01/2019 - 03/12/2020, 06/13/2020 - 06/30/2021

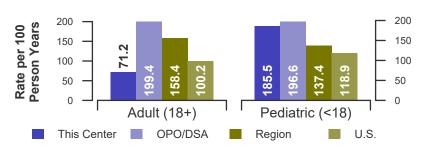
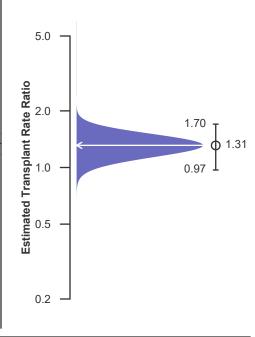


Figure B2D. Deceased donor transplant rate ratio estimate





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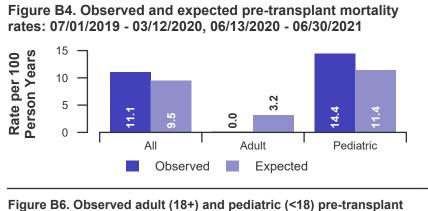
### **B.** Waiting List Information

Table B5. Pre-transplant mortality rates: 07/01/2019 - 03/12/2020, 06/13/2020 - 06/30/2021

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	20	79	443	3,797
Person Years**	36.2	167.2	837.7	7,291.8
Number of deaths	4	10	69	646
Adult (18+) Candidates				
Count on waiting list at start*	7	64	385	3,390
Person Years**	8.4	136.7	716.8	6,450.6
Number of deaths	0	6	57	544
Pediatric (<18) Candidates				
Count on waiting list at start*	13	15	58	407
Person Years**	27.8	30.5	120.9	841.2
Number of deaths	4	4	12	102

<sup>\*</sup> 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.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from July 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or June 30. Person years excludes time on the waiting list between March 13, 2020 and June 12, 2020.



mortality rates: 07/01/2019 - 03/12/2020, 06/13/2020 - 06/30/2021

Figure B5. Pre-transplant mortality rate ratio estimate

5.0

Output



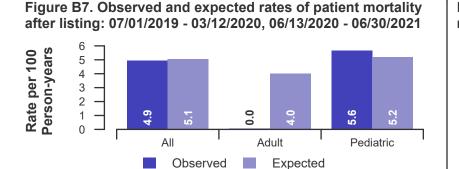
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Table B6. Rates of patient mortality after listing: 07/01/2019 - 03/12/2020, 06/13/2020 - 06/30/2021

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	170	918	4,253	27,543
Person-years*	202.5	1,110.1	5,060.7	32,681.5
Number of Deaths	10	48	263	1,897
Adult (18+) Patients				
Count at risk during the evaluation period	18	751	3,644	23,581
Person-years*	25.3	915.3	4,315.1	27,931.5
Number of Deaths	0	36	234	1,670
Pediatric (<18) Patients				
Count at risk during the evaluation period	152	167	609	3,962
Person-years*	177.3	194.8	745.6	4,749.9
Number of Deaths	10	12	29	227

<sup>\*</sup> Person-years are calculated as days (converted to fractional years). The number of days from 07/01/2019, or from the date of first wait listing until death, reaching 5 years after listing or June 30, 2021. Person years excludes time on the waiting list between March 13, 2020 and June 12, 2020.



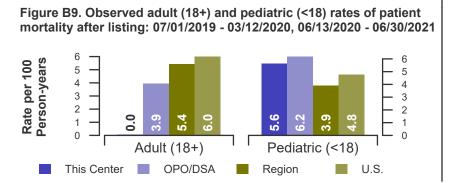
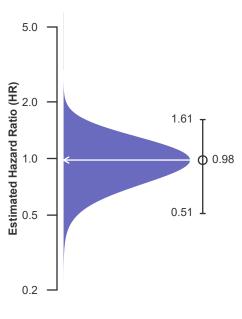


Figure B8. HR estimate of patient mortality after listing



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



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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 01/01/2019 and 12/31/2019

Waiting list status (survival status)		Center (N s Since L		U.S. (N=4,717) Months Since Listing			
	6	12	18	6	12	18	
Alive on waiting list (%)	39.1	17.4	13.0	34.0	21.9	15.9	
Died on the waiting list without transplant (%)	0.0	0.0	0.0	2.7	3.3	3.5	
Removed without transplant (%):							
Condition worsened (status unknown)	0.0	0.0	0.0	3.1	3.8	4.3	
Condition improved (status unknown)	0.0	4.3	4.3	0.7	1.8	2.6	
Refused transplant (status unknown)	0.0	0.0	0.0	0.2	0.3	0.4	
Other	0.0	0.0	0.0	2.0	3.1	3.7	
Transplant (living or deceased donor) (%):							
Functioning (alive)	60.9	73.9	60.9	53.0	57.2	44.1	
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.1	0.1	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	3.6	5.5	6.4	
Status Yet Unknown*	0.0	4.3	21.7	0.2	2.0	17.9	
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	1.0	1.2	
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Total % known died on waiting list or after transplant	0.0	0.0	0.0	6.3	8.8	9.9	
Total % known died or removed as unstable	0.0	0.0	0.0	9.4	12.6	14.2	
Total % removed for transplant	60.9	78.3	82.6	56.9	64.8	68.5	
Total % with known functioning transplant (alive)	60.9	73.9	60.9	53.0	57.2	44.1	

<sup>\*</sup> Follow-up form covering specified time period not yet completed, and possibly has not become due.



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### **B.** Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2015 and 06/30/2018

	Percent transplanted at time periods since listing						_			
Characteristic		Th	nis Cent	ter			Un	ited Sta	ites	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	85	5.9	57.6	65.9	72.9	13,703	16.8	56.3	64.1	66.6
Ethnicity/Race*										
White	26	0.0	50.0	61.5	65.4	8,425	16.9	56.5	64.3	66.9
African-American	7	14.3	57.1	57.1	57.1	3,135	14.9	52.9	61.2	63.7
Hispanic/Latino	39	5.1	53.8	61.5	74.4	1,440	16.7	59.7	66.4	68.9
Asian	10	20.0	100.0	100.0	100.0	541	27.7	64.9	71.9	73.4
Other	3	0.0	33.3	66.7	66.7	162	15.4	57.4	62.3	65.4
Unknown	0					0				
Age										
<2 years	23	8.7	60.9	60.9	65.2	858	15.7	59.2	60.3	60.5
2-11 years	24	0.0	41.7	58.3	70.8	598	13.9	61.4	69.9	72.2
12-17 years	27	11.1	77.8	85.2	88.9	546	26.7	72.3	79.9	81.1
18-34 years	11	0.0	36.4	45.5	54.5	1,303	16.3	52.6	59.6	62.8
35-49 years	0					2,546	14.0	51.2	60.6	63.7
50-64 years	0					5,704	16.0	55.1	63.6	66.6
65-69 years	0					1,809	19.9	59.5	66.8	68.7
70+ years	0					339	30.4	72.3	74.0	74.6
Gender										
Male	52	7.7	59.6	69.2	75.0	9,723	15.8	54.8	63.3	66.1
Female	33	3.0	54.5	60.6	69.7	3,980	19.4	60.1	65.9	67.9

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



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# **B.** Waiting List Information

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 07/01/2015 and 06/30/2018

Characteristic	Percent transplanted at time periods since list This Center United St							_		
	N		1 year		3 years	N				3 years
All	85	5.9	57.6	65.9	72.9	13,703	16.8	56.3	64.1	66.6
Blood Type										
0	43	4.7	48.8	55.8	65.1	6,107	10.3	47.0	55.9	59.0
A	25	8.0	64.0	76.0	80.0	5,009	21.2	62.9	69.9	71.9
В	15	0.0	66.7	73.3	80.0	1,968	19.9	62.4	69.7	72.4
AB	2	50.0	100.0	100.0	100.0	618	36.2	75.6	80.1	80.7
Previous Transplant										
Yes	3	0.0	33.3	66.7	66.7	584	12.2	44.0	48.6	51.2
No	82	6.1	58.5	65.9	73.2	13,119	17.0	56.9	64.8	67.3
Primary Disease										
Cardiomyopathy	42	9.5	71.4	78.6	81.0	7,818	18.1	58.5	66.6	69.0
Coronary Artery Disease	0					3,587	16.5	54.3	62.3	65.6
Retransplant/Graft Failure	3	0.0	33.3	66.7	66.7	486	11.3	44.4	49.4	52.3
Valvular Heart Disease	1	0.0	100.0	100.0	100.0	130	15.4	61.5	66.2	68.5
Congenital Heart Disease	39	2.6	43.6	51.3	64.1	1,459	13.0	54.6	61.0	62.6
Other	0					223	17.5	47.5	53.8	55.6
Missing	0					0				
Medical Urgency Status at Lis	sting									
Status 1A	37	10.8	73.0	73.0	73.0	4,272	31.6	70.0	72.9	73.9
Status 1B	20	0.0	55.0	75.0	85.0	5,576	14.0	58.1	67.2	70.0
Status 2	22	4.5	22.7	36.4	54.5	3,404	4.4	38.5	50.2	54.2
Unknown	6	0.0	100.0	100.0	100.0	451	6.4	39.2	47.0	50.6



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# **B.** Waiting List Information

Table B10. Time to transplant for waiting list candidates\*

Candidates registered on the waiting list between 07/01/2015 and 12/31/2020

Percentile 5th	Center	OPO/DSA	Region	U.S.
	0.3	0.1	0.1	0.2
10th	0.7	0.2	0.2	0.3
25th	2.2	0.5	0.7	1
50th (median time to transplant)	5.4	2.9	3.2	5.5
75th	35.1	17.7	24.8	Not Observed

<sup>\*</sup> 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.

<sup>\*\*</sup> Censored on 06/30/2021. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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Table B11. Offer Acceptance Practices: 07/01/2020 - 06/30/2021

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	71	758	4,533	57,203
Number of Acceptances	22	145	562	3,412
Expected Acceptances	12.1	70.1	404.8	3,409.7
Offer Acceptance Ratio*	1.71	2.04	1.39	1.00
95% Credible Interval**	[1.09, 2.45]			
PHS increased infectious risk				
Number of Offers	15	183	1,165	17,958
Number of Acceptances	3	41	151	953
Expected Acceptances	1.3	16.3	100.6	951.3
Offer Acceptance Ratio*	1.52	2.34	1.49	1.00
95% Credible Interval**	[0.49, 3.12]			
Ejection fraction < 60				
Number of Offers	25	280	1,469	18,242
Number of Acceptances	5	47	156	1,016
Expected Acceptances	2.7	21.9	115.3	1,009.1
Offer Acceptance Ratio*	1.50	2.05	1.35	1.01
95% Credible Interval**	[0.60, 2.80]			
Donor Age >= 40				
Number of Offers	0	345	2,104	25,760
Number of Acceptances	0	46	135	730
Expected Acceptances	0.0	14.6	81.7	745.0
Offer Acceptance Ratio*		2.89	1.64	0.98
95% Credible Interval**	[,]			
Hard-to-Place Hearts (Over 50 Offers)				
Number of Offers	4	136	1,000	19,656
Number of Acceptances	0	11	23	267
Expected Acceptances	0.1	1.0	11.3	265.9
Offer Acceptance Ratio*	0.97	4.31	1.88	1.00
95% Credible Interval**	[0.12, 2.71]			
Donor more than 500 miles away				
Number of Offers	30	288	1,679	17,899
Number of Acceptances	7	46	119	769
Expected Acceptances	3.6	15.2	80.4	766.4
Offer Acceptance Ratio*	1.61	2.79	1.47	1.00
95% Credible Interval**	[0.73, 2.81]			

<sup>\*</sup> The offer acceptance ratio estimates the relative offer acceptance practice of Lucile Salter Packard Children's Hospital at Stanford 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, [1.09, 2.45], indicates the location of CAPC's true offer acceptance ratio with 95% probability. The best estimate is 71% more likely to accept an offer compared to national acceptance behavior, but CAPC's performance could plausibly range from 9% higher acceptance up to 145% higher acceptance.



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### **B.** Waiting List Information

Figure B10. Offer acceptance: Overall

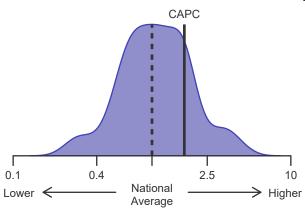


Figure B11. Offer acceptance: PHS increased infectious risk

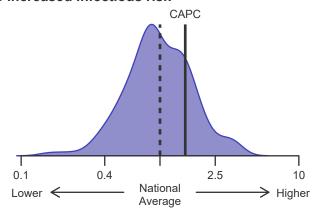
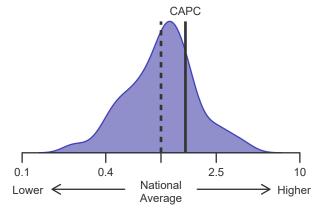


Figure B12. Offer acceptance: Ejection fraction < 60

Figure B13. Offer acceptance: Donor age >= 40



This program received no offers.

Figure B14. Offer acceptance: Offer number > 50

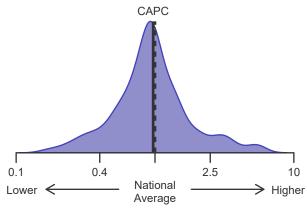
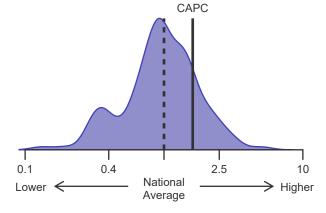


Figure B15. Offer acceptance: Donor more than 500 miles away





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# C. Transplant Information

# Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2020 and 06/30/2021

	Perce	Percentage in each category		
Characteristic	Center (N=28)	Region (N=664)	U.S. (N=3,839)	
Ethnicity/Race (%)*	, ,	,		
White	57.1	48.0	58.2	
African-American	3.6	16.3	25.7	
Hispanic/Latino	35.7	23.2	11.0	
Asian	3.6	9.5	3.8	
Other	0.0	3.0	1.4	
Unknown	0.0	0.0	0.0	
Age (%)				
<2 years	14.3	2.7	4.1	
2-11 years	28.6	4.1	4.3	
12-17	46.4	4.8	4.7	
18-34	10.7	10.2	9.5	
35-49 years	0.0	17.0	16.3	
50-64 years	0.0	41.9	42.3	
65-69 years	0.0	14.3	14.8	
70+ years	0.0	5.0	4.1	
Gender (%)				
Male	71.4	74.4	70.7	
Female	28.6	25.6	29.3	

<sup>\*</sup> 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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Transplant Program (Orga

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### **C. Transplant Information**

# Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2020 and 06/30/2021

	Parcai	Percentage in each category		
Characteristic	Center (N=28)	Region (N=664)	U.S. (N=3,839)	
Blood Type (%)				
0	46.4	42.6	41.6	
A	35.7	38.1	38.5	
В	17.9	14.8	14.7	
AB	0.0	4.5	5.2	
Previous Transplant (%)				
Yes	14.3	5.4	3.6	
No	85.7	94.6	96.4	
Body Mass Index (%)				
0-20	64.3	16.9	16.9	
21-25	25.0	34.2	28.2	
26-30	0.0	29.4	30.4	
31-35	10.7	13.4	18.4	
36-40	0.0	2.9	4.1	
41+	0.0	0.3	0.6	
Unknown	0.0	3.0	1.4	
Primary Disease (%)				
Cardiomyopathy	35.7	58.1	61.3	
Coronary Artery Disease	0.0	26.5	25.4	
Retransplant/Graft Failure	0.0	0.0	0.0	
Valvular Heart Disease	0.0	1.2	0.7	
Congenital Heart Disease	64.3	10.4	10.5	
Other	0.0	1.7	1.6	
Missing	0.0	2.1	0.4	
Medical Urgency Status at Transplant (%)	0.0		0	
Status 1A	60.7	8.3	10.8	
Status 1B	21.4	3.3	2.2	
Status 2	7.1	0.5	0.4	
Adult Status 1	0.0	5.7	7.8	
Adult Status 2	3.6	36.1	41.9	
Adult Status 3	3.6	24.2	13.9	
Adult Status 4	3.6	13.6	17.1	
Adult Status 5	0.0	0.6	0.8	
Adult Status 6	0.0	7.7	5.1	
Recipient Medical Condition at Transplant (%)	0.0	1.1	0.1	
Not Hospitalized	25.0	28.5	29.9	
Hospitalized	35.7	17.2	15.6	
ICU	39.3	51.2	53.7	
Unknown	0.0	3.2	0.8	
Recipient Circulatory Support Status at Transplant (%)	0.0	J.Z	0.0	
No Support Mechanism	42.9	26.5	21.8	
Devices*	53.6	20.5 51.2	21.0 61.0	
	3.6	19.6	16.5	
Other Support Mechanism		2.7		
Unknown	0.0	۷.۱	0.7	

<sup>\*</sup> Devices include ventricular assist devices (VAD), extracorporeal membrane oxygenation (ECMO), intraaortic balloon pump (IABP), and total artificial heart (TAH).



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### **C. Transplant Information**

Table C3D. Deceased donor characteristics
Transplants performed between 07/01/2020 and 06/30/2021

	Percentage in each category		
Donor Characteristic	Center (N=28)	Region (N=664)	U.S. (N=3,839)
Cause of Death (%)			
Deceased: Stroke	0.0	14.8	12.3
Deceased: MVA	17.9	18.8	18.4
Deceased: Other	82.1	66.4	69.3
Ethnicity/Race (%)*			
White	32.1	48.3	61.0
African-American	14.3	9.9	17.9
Hispanic/Latino	42.9	32.8	17.6
Asian	7.1	5.7	2.1
Other	3.6	3.2	1.4
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	17.9	2.6	3.0
2-11 years	7.1	2.4	3.9
12-17	10.7	6.6	6.6
18-34	60.7	54.1	52.0
35-49 years	3.6	26.1	28.8
50-64 years	0.0	8.3	5.7
65-69 years	0.0	0.0	0.0
70+ years	0.0	0.0	0.0
Gender (%)			
Male	57.1	69.6	69.6
Female	42.9	30.4	30.4
Blood Type (%)			
0	57.1	55.9	53.9
A	32.1	32.1	33.8
В	10.7	10.7	10.5
AB	0.0	1.4	1.9
Unknown	0.0	0.0	0.0

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



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# **C. Transplant Information**

### Table C4D. Deceased donor transplant characteristics Transplants performed between 07/01/2020 and 06/30/2021

	Percentage in each category		
Transplant Characteristic	Center	Region	U.S.
	(N=28)	(N=664)	(N=3,839)
Total Ischemic Time (Minutes): Local (%)			
Deceased: 0-90 min	0.0	5.1	8.4
Deceased: 91-180 min	50.0	59.5	60.2
Deceased: 181-270 min	50.0	29.3	26.6
Deceased: 271-360 min	0.0	1.4	2.6
Deceased: 361+ min	0.0	0.5	0.7
Not Reported	0.0	4.2	1.5
Total Ischemic Time (Minutes): Shared (%)			
Deceased: 0-90 min	4.2	0.7	0.8
Deceased: 91-180 min	0.0	8.5	17.5
Deceased: 181-270 min	75.0	65.0	64.8
Deceased: 271-360 min	16.7	19.8	13.1
Deceased: 361+ min	4.2	2.9	3.0
Not Reported	0.0	3.1	0.9
Procedure Type (%)			
Single organ	89.3	86.7	90.0
Multi organ	10.7	13.3	10.0
Donor Location (%)			
Local Donation Service Area (DSA)	14.3	32.4	21.4
Another Donation Service Area (DSA)	85.7	67.6	78.6
Median Time in Hospital After Transplant	24.0 Days	16.0 Days	18.0 Days



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### C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

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

	CAPC	U.S.
Number of transplants evaluated	6	6,323
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.48%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	93.58%	
Number of observed graft failures (including deaths) during the first month after transplant	0	219
Number of expected graft failures (including deaths) during the first month after transplant	0.41	
Estimated hazard ratio*	0.83	
95% credible interval for the hazard ratio**	[0.10, 2.31]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.10, 2.31], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 17% lower risk

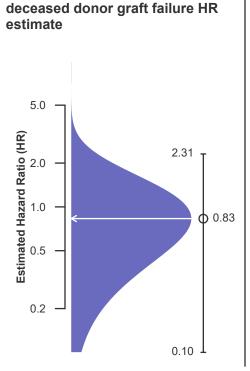
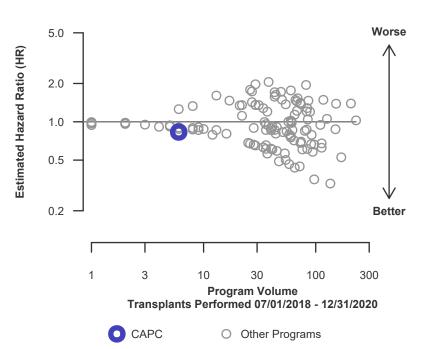


Figure C1D. Adult (18+) 1-month





of graft failure compared to an average program, but CAPC's performance could plausibly range from 90% reduced risk up to 131% increased risk.



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### C. Transplant Information

Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft

Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

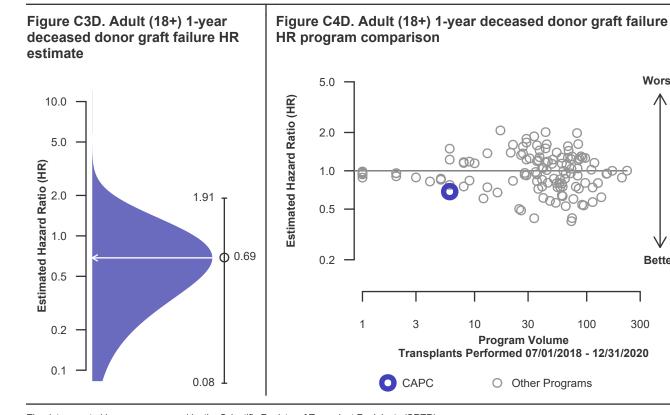
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CAPC	U.S.
Number of transplants evaluated	6	6,323
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	91.24%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	84.61%	
Number of observed graft failures (including deaths) during the first year after transplant	0	472
Number of expected graft failures (including deaths) during the first year after transplant	0.91	
Estimated hazard ratio*	0.69	
95% credible interval for the hazard ratio**	[0.08, 1.91]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.08, 1.91], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 31% lower risk

of graft failure compared to an average program, but CAPC's performance could plausibly range from 92% reduced risk up to 91% increased risk.



Worse

**Better** 

300



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### C. Transplant Information

Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft

Single organ transplants performed between 01/01/2016 and 06/30/2018 Deaths and retransplants are considered graft failures

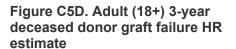
Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

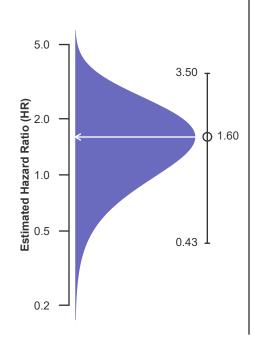
	CAPC	U.S.
Number of transplants evaluated	3	6,481
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	33.33%	85.48%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	69.85%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	879
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.51	
Estimated hazard ratio*	1.60	
95% credible interval for the hazard ratio**	[0.43, 3.50]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

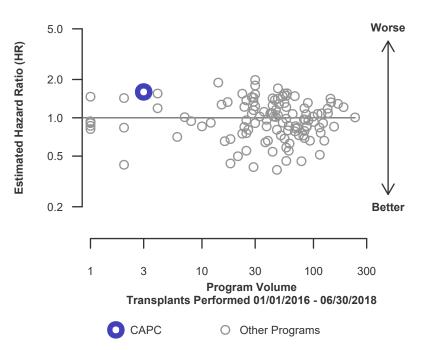
\*\* The 95% credible interval, [0.43, 3.50], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 60% higher risk

of graft failure compared to an average program, but CAPC's performance could plausibly range from 57% reduced risk up to 250% increased risk.





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





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### C. Transplant Information

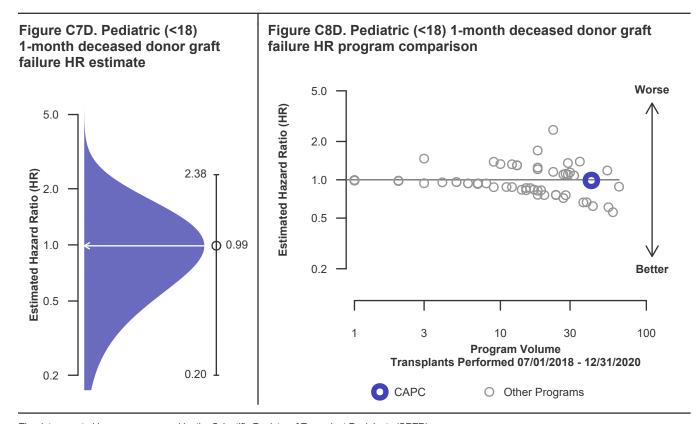
Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

	CAPC	U.S.
Number of transplants evaluated	42	1,125
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	97.30%	97.48%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	97.46%	
Number of observed graft failures (including deaths) during the first month after transplant	1	28
Number of expected graft failures (including deaths) during the first month after transplant	1.04	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.20, 2.38]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.20, 2.38], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 1% lower risk of

graft failure compared to an average program, but CAPC's performance could plausibly range from 80% reduced risk up to 138% increased risk.





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### C. Transplant Information

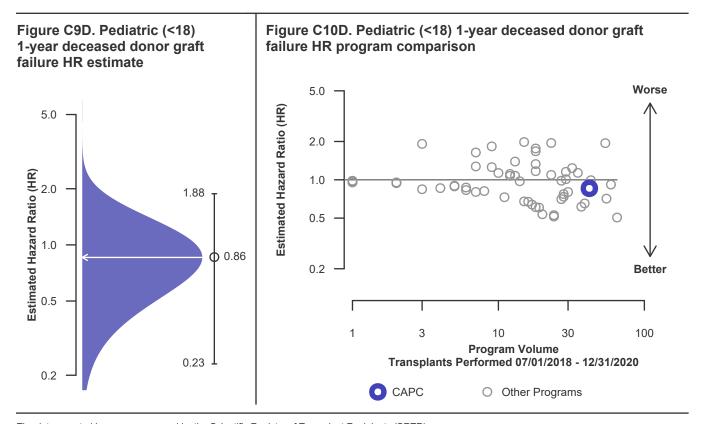
Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Deaths and retransplants are considered graft failures

	CAPC	U.S.
Number of transplants evaluated	42	1,125
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	92.43%	91.35%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	91.19%	
Number of observed graft failures (including deaths) during the first year after transplant	2	77
Number of expected graft failures (including deaths) during the first year after transplant	2.67	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.23, 1.88]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.23, 1.88], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 14% lower risk

of graft failure compared to an average program, but CAPC's performance could plausibly range from 77% reduced risk up to 88% increased risk.





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# C. Transplant Information

### Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft

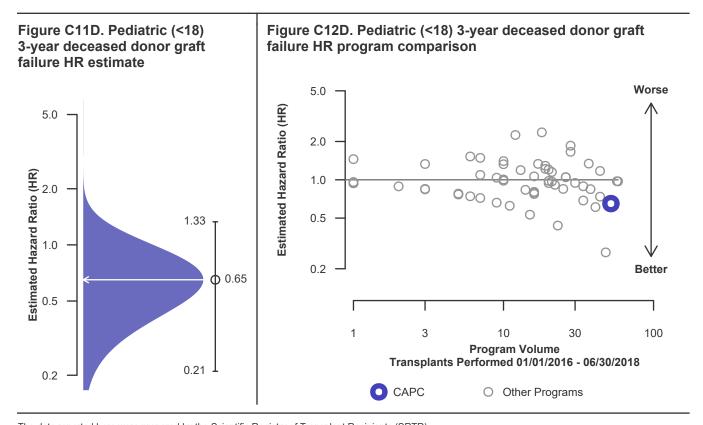
Single organ transplants performed between 01/01/2016 and 06/30/2018 Deaths and retransplants are considered graft failures Follow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020

	CAPC	U.S.
Number of transplants evaluated	52	1,123
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	91.58%	88.14%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	88.14%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	121
Number of expected graft failures (including deaths) during the first 3 years after transplant	5.69	
Estimated hazard ratio*	0.65	
95% credible interval for the hazard ratio**	[0.21, 1.33]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.21, 1.33], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 35% lower risk

of graft failure compared to an average program, but CAPC's performance could plausibly range from 79% reduced risk up to 33% increased risk.





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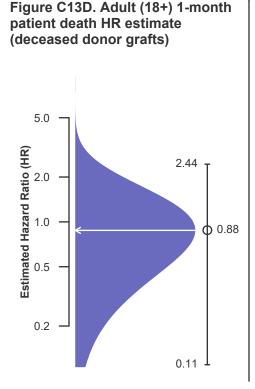
### C. Transplant Information

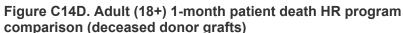
Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients)

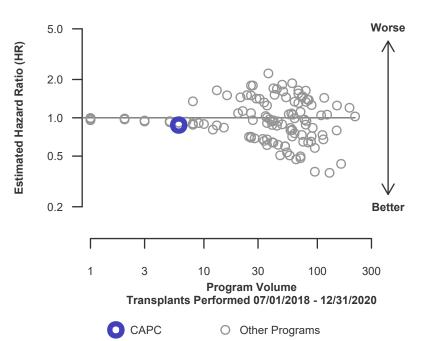
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

	CAPC	U.S.
Number of transplants evaluated	6	6,166
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.90%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	95.48%	
Number of observed deaths during the first month after transplant	0	188
Number of expected deaths during the first month after transplant	0.28	
Estimated hazard ratio*	0.88	
95% credible interval for the hazard ratio**	[0.11, 2.44]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







<sup>\*\*</sup> The 95% credible interval, [0.11, 2.44], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 12% lower risk of patient death compared to an average program, but CAPC's performance could plausibly range from 89% reduced risk up to 144% increased risk.



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### C. Transplant Information

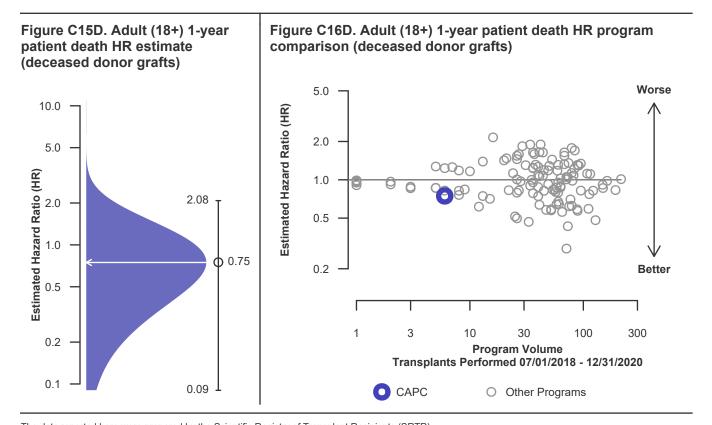
Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020 Retransplants excluded

	CAPC	U.S.
Number of transplants evaluated	6	6,166
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	91.65%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	88.08%	
Number of observed deaths during the first year after transplant	0	435
Number of expected deaths during the first year after transplant	0.68	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.09, 2.08]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.09, 2.08], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 25% lower risk of patient death compared to an average program, but CAPC's performance could plausibly range from 91% reduced risk up to 108% increased risk.





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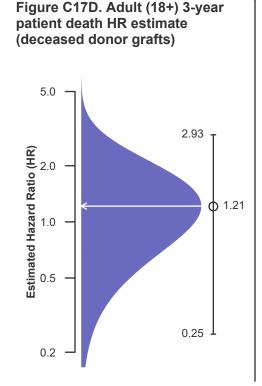
### C. Transplant Information

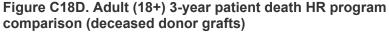
Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients)

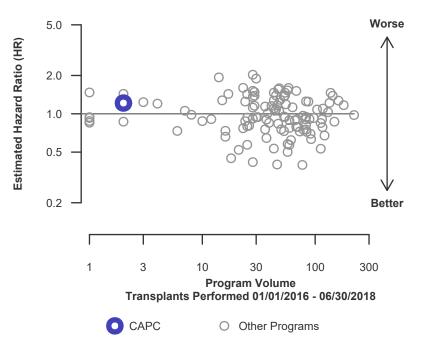
Single organ transplants performed between 01/01/2016 and 06/30/2018 Retransplants excluded

	CAPC	U.S.
Number of transplants evaluated	2	6,338
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	50.00%	86.07%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	65.30%	
Number of observed deaths during the first 3 years after transplant	1	825
Number of expected deaths during the first 3 years after transplant	0.47	
Estimated hazard ratio*	1.21	
95% credible interval for the hazard ratio**	[0.25, 2.93]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.







<sup>\*\*</sup> The 95% credible interval, [0.25, 2.93], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 21% higher risk of patient death compared to an average program, but CAPC's performance could plausibly range from 75% reduced risk up to 193% increased risk.



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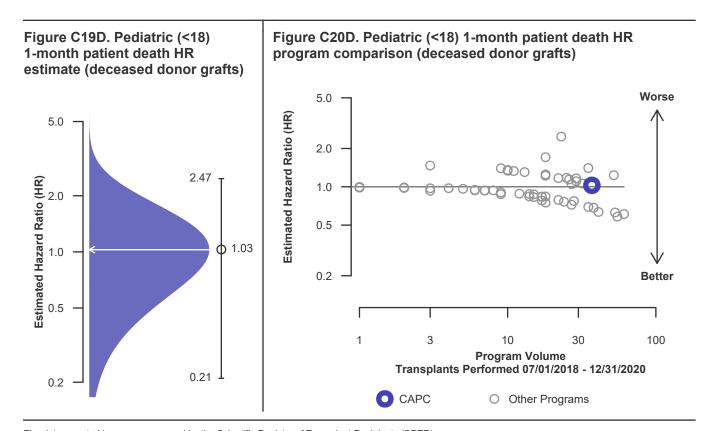
### C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020
Retransplants excluded

	CAPC	U.S.
Number of transplants evaluated	37	1,077
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	96.97%	97.55%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	97.45%	
Number of observed deaths during the first month after transplant	1	26
Number of expected deaths during the first month after transplant	0.92	
Estimated hazard ratio*	1.03	
95% credible interval for the hazard ratio**	[0.21, 2.47]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.21, 2.47], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 3% higher risk of patient death compared to an average program, but CAPC's performance could plausibly range from 79% reduced risk up to 147% increased risk.





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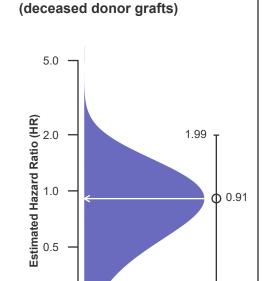
# C. Transplant Information

Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)
Single organ transplants performed between 07/01/2018 and 03/12/2020, and 06/13/2020 and 12/31/2020
Retransplants excluded

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

	CAPC	U.S.
Number of transplants evaluated	37	1,077
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	91.58%	91.37%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	90.90%	
Number of observed deaths during the first year after transplant	2	73
Number of expected deaths during the first year after transplant	2.40	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.25, 1.99]	

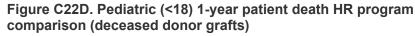
<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford's results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard 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 CAPC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

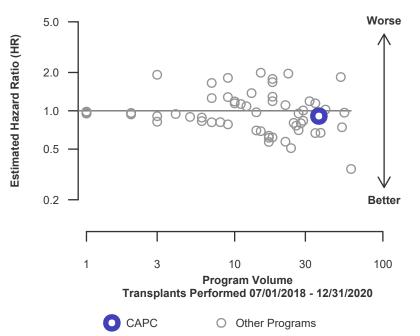


0.2

Figure C21D. Pediatric (<18)

1-year patient death HR estimate





0.25

<sup>\*\*</sup> The 95% credible interval, [0.25, 1.99], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 9% lower risk of patient death compared to an average program, but CAPC's performance could plausibly range from 75% reduced risk up to 99% increased risk.



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### C. Transplant Information

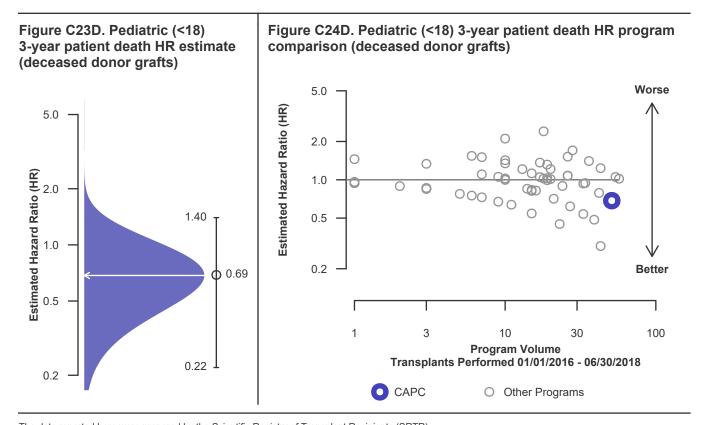
Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)

Single organ transplants performed between 01/01/2016 and 06/30/2018 Retransplants excluded

	CAPC	U.S.
Number of transplants evaluated	51	1,079
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	91.27%	88.61%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	88.62%	
Number of observed deaths during the first 3 years after transplant	3	111
Number of expected deaths during the first 3 years after transplant	5.29	
Estimated hazard ratio*	0.69	
95% credible interval for the hazard ratio**	[0.22, 1.40]	

<sup>\*</sup> The hazard ratio provides an estimate of how Lucile Salter Packard Children's Hospital at Stanford'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 CAPC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.22, 1.40], indicates the location of CAPC's true hazard ratio with 95% probability. The best estimate is 31% lower risk of patient death compared to an average program, but CAPC's performance could plausibly range from 78% reduced risk up to 40% increased risk.





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# **C.** Transplant Information

Table C17. Multi-organ transplant graft survival: 07/01/2018 - 12/3	12/31/2020	07/01/2018 -	survival:	transplant graft	Table C17. Multi-organ
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Adult (18+) Transplants	First-Year Outcomes

Transplant Type		Transplants Performed		Heart Graft Failures		Estimated Heart Graft Survival	
	CAPC-TX1	USA	CAPC-TX1	USA	CAPC-TX1	USA	
Liver-Heart	4	107	1	12	75.0%	88.3%	

### Pediatric (<18) Transplants

### **First-Year Outcomes**

Transplant Type	Transp Perfor CAPC-TX1	med	Hea Graft Fa CAPC-TX1	ilures	Estimate Graft Si CAPC-TX1	urvival
Heart-Lung	1	9	0	3	100.0%	66.7%
Kidney-Heart	1	10	0	3	100.0%	68.6%
Liver-Heart	1	4	0	0	100.0%	100.0%

### Table C18. Multi-organ transplant patient survival: 07/01/2018 - 12/31/2020

Adult (18+) Transplants	<b>First-Year Outcomes</b>
/ takent ( 10 ) in an opianto	

Transplant Type	Transpla Perform CAPC-TX1	ned	Patient D CAPC-TX1		Estima Patient S CAPC-TX1	Survival
Liver-Heart	4	107	1	12	75.0%	88.0%

### Pediatric (<18) Transplants

#### **First-Year Outcomes**

Transplant Type	Transp Perfor CAPC-TX1	med	Patient D	eaths USA	Estima Patient S CAPC-TX1	Survival
Heart-Lung	1	9	0	3	100.0%	66.7%
Kidney-Heart	1	10	0	3	100.0%	68.6%
Liver-Heart	1	4	0	0	100.0%	100.0%