

SCIENTIFIC Cedars-Sinai Medical Center

Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

Based on Data Available: October 31, 2019

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

User Guide

This report contains a wide range of useful information about the kidney transplant program at Cedars-Sinai Medical Center (CACS). 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 18.0 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

The death rate (also known as the mortality rate) for candidates on the waiting list is presented in Table B5 and Figures B4-B6. These data are presented in the same way as the transplant rate data in the previous section. The intent of these tables and figures is to describe risk of death once candidates are listed rather than while they are listed. 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.

Table B6 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 B7 and B8 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 B7 and B8 presents the percent of candidates who received a deceased donor transplant by each time point. Table B9 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 07/01/2013 and 12/31/2018. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.7 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 06/30/2019 to calculate a particular percentile of transplant times.

Table B10 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. Figures B7 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B8 - B11 similarly show offer acceptance rates for subsets of offers.

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



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

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

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

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

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



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A. Program Summary

Figure A1. Waiting list and transplant activity

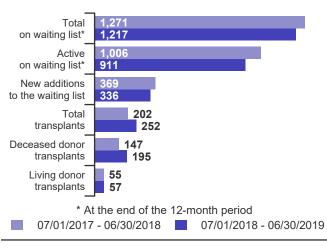


Table A1. Census of transplant recipients

Recipients	07/01/2017- 06/30/2018	07/01/2018- 06/30/2019
Transplanted at this center	202	252
Followed by this center*	1,200	1,657
transplanted at this program	n 1,178	1,627
transplanted elsewhere	22	30

^{*} 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 07/01/2017 - 06/30/2019

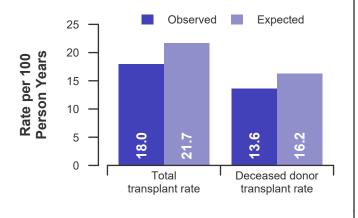


Figure A3. Waiting list mortality rates 07/01/2017 - 06/30/2019

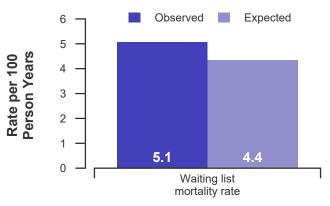


Figure A4. First-year adult graft and patient survival: 07/01/2016 - 12/31/2018

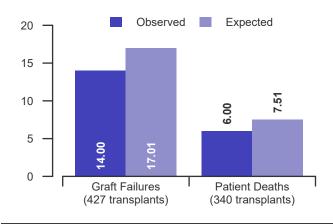
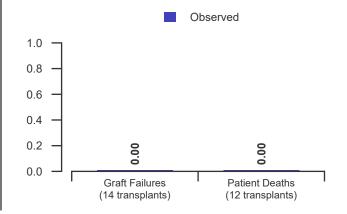


Figure A5. First-year pediatric graft and patient survival: 07/01/2016 - 12/31/2018





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Table B1. Waiting list activity summary: 07/01/2017 - 06/30/2019

		its for center	Activity for 07/01/2018 to 06/30/2019 as percent of registrants on waiting lis on 07/01/2018			
Waiting List Registrations	07/01/2017- 06/30/2018	07/01/2018- 06/30/2019	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	1,274	1,271	100.0	100.0	100.0	
New listings at this center	369	336	26.4	31.2	41.0	
Removals						
Transferred to another center	16	11	0.9	0.9	1.3	
Received living donor transplant*	55	56	4.4	4.3	6.6	
Received deceased donor transplant*	147	195	15.3	11.6	15.4	
Died	69	49	3.9	4.3	3.8	
Transplanted at another center	25	27	2.1	2.0	3.6	
Deteriorated	27	17	1.3	2.9	4.2	
Recovered	3	2	0.2	0.1	0.2	
Other reasons	30	33	2.6	3.4	5.6	
On waiting list at end of period	1,271	1,217	95.8	101.7	100.4	

^{*} 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 07/01/2018 and 06/30/2019

Domographia Characteristic		iting List Regi 018 to 06/30/2		All Waiting List Registrations on 06/30/2019 (%)			
Demographic Characteristic	This Center (N=336)	OPTN Region (N=6,988)	U.S. (N=41,372)	This Center (N=1,217)	OPTN Region (N=22,735)	U.S. (N=101,268)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Ethnicity/Race (%)*							
White	25.0	27.7	41.5	20.4	22.4	35.5	
African-American	16.7	9.3	28.8	17.3	10.9	32.3	
Hispanic/Latino	36.0	40.0	19.5	44.0	42.3	20.7	
Asian	20.5	19.5	8.4	17.1	21.4	9.8	
Other	1.8	3.5	1.8	1.2	3.0	1.7	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Age (%)							
<2 years	0.3	0.1	0.1	0.1	0.1	0.1	
2-11 years	0.9	1.2	1.0	8.0	0.7	0.6	
12-17 years	2.7	1.7	1.5	2.2	1.1	0.9	
18-34 years	13.4	12.3	10.8	13.5	12.2	10.6	
35-49 years	25.3	24.9	24.9	31.6	27.6	27.5	
50-64 years	35.1	41.7	41.0	38.9	43.9	43.4	
65-69 years	15.8	12.5	13.2	10.4	11.1	11.8	
70+ years	6.5	5.4	7.4	2.5	3.3	5.1	
Gender (%)							
Male	62.2	62.5	62.1	61.5	62.6	61.9	
Female	37.8	37.5	37.9	38.5	37.4	38.1	

^{*} 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 B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 07/01/2018 and 06/30/2019

Medical Characteristic		ting List Regis 018 to 06/30/2		All Waiting List Registrations on 06/30/2019 (%)			
medical offaracteristic	This Center (N=336)	OPTN Region (N=6,988)	U.S. (N=41,372)	This Center (N=1,217)	OPTN Region (N=22,735)	U.S. (N=101,268)	
All (%)	100.0	100.0	100.0	100.0	100.0	100.0	
Blood Type (%)							
0	42.3	50.8	49.1	56.5	55.0	53.3	
A	34.8	31.0	32.0	28.3	27.1	27.4	
В	18.5	14.4	15.0	13.1	15.5	16.7	
AB	4.5	3.9	3.9	2.1	2.4	2.5	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Previous Transplant (%)							
Yes	18.2	10.9	12.8	15.0	10.1	13.7	
No	81.8	89.1	87.2	85.0	89.9	86.3	
Unknown	0.0	0.0	0.0	0.0	0.0	0.0	
Initial CPRA (%)							
0-9%	78.9	79.8	79.5	85.9	81.4	80.2	
10-79%	10.1	12.5	12.8	7.7	12.6	12.4	
80+%	11.0	7.7	7.7	6.4	6.0	7.4	
Unknown	0.0	0.0	0.1	0.0	0.0	0.0	
Primary Disease (%)*							
Glomerular Diseases	25.9	19.5	19.5	25.5	19.0	19.0	
Tubular and Interstitial Diseases	6.0	3.3	3.9	3.2	2.8	3.6	
Polycystic Kidneys	6.0	6.2	7.2	5.5	5.6	6.9	
Congenital, Familial, Metabolic	2.7	2.4	2.1	2.1	1.9	1.8	
Diabetes	27.7	39.1	35.3	33.9	42.4	36.4	
Renovascular & Vascular Disease		0.2	0.2	0.2	0.1	0.1	
Neoplasms	0.6	0.3	0.4	0.4	0.2	0.3	
Hypertensive Nephrosclerosis	8.3	13.8	19.2	13.6	15.6	21.5	
Other	22.6	15.0	11.8	15.6	11.8	9.9	
Missing*	0.0	0.4	0.5	0.0	0.6	0.5	

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



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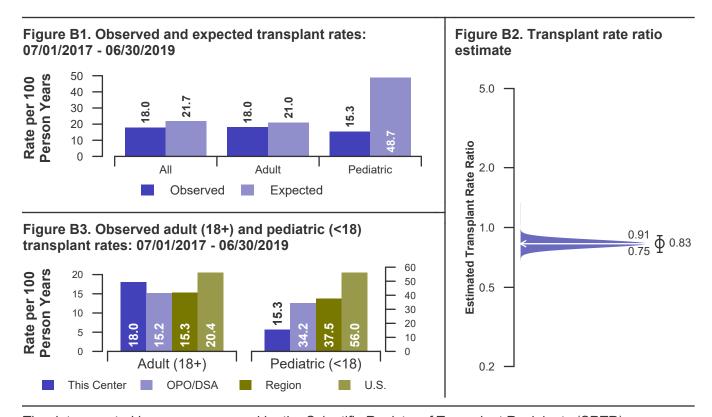
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Table B4. Transplant rates: 07/01/2017 - 06/30/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,272	7,584	22,268	102,722
Person Years**	2,521.4	15,305.4	44,730.4	202,385.3
Removals for Transplant	453	2,377	7,022	42,479
Adult (18+) Candidates				
Count on waiting list at start*	1,244	7,463	21,870	101,204
Person Years**	2,456.1	15,036.7	43,935.7	199,309.9
Removals for transpant	443	2,285	6,724	40,758
Pediatric (<18) Candidates				
Count on waiting list at start*	28	121	398	1,518
Person Years**	65.2	268.7	794.7	3,075.4
Removals for transplant	10	92	298	1,721

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

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





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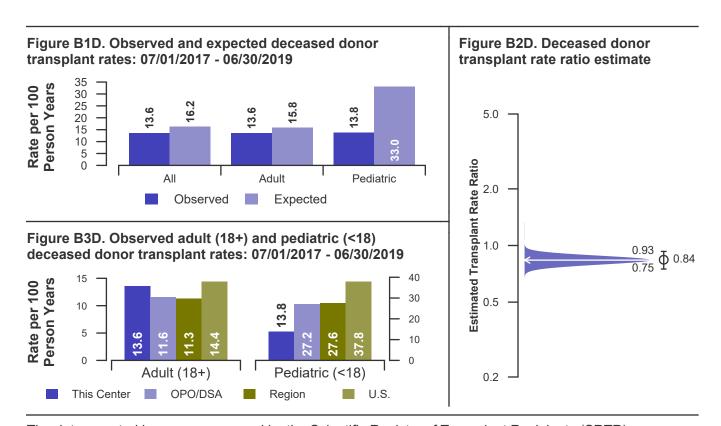
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Table B4D. Deceased donor transplant rates: 07/01/2017 - 06/30/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,272	7,584	22,268	102,722
Person Years**	2,521.4	15,305.4	44,730.4	202,385.3
Removals for Transplant	342	1,811	5,188	29,769
Adult (18+) Candidates				
Count on waiting list at start*	1,244	7,463	21,870	101,204
Person Years**	2,456.1	15,036.7	43,935.7	199,309.9
Removals for transpant	333	1,738	4,969	28,607
Pediatric (<18) Candidates				
Count on waiting list at start*	28	121	398	1,518
Person Years**	65.2	268.7	794.7	3,075.4
Removals for transplant	9	73	219	1,162

^{*} 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.

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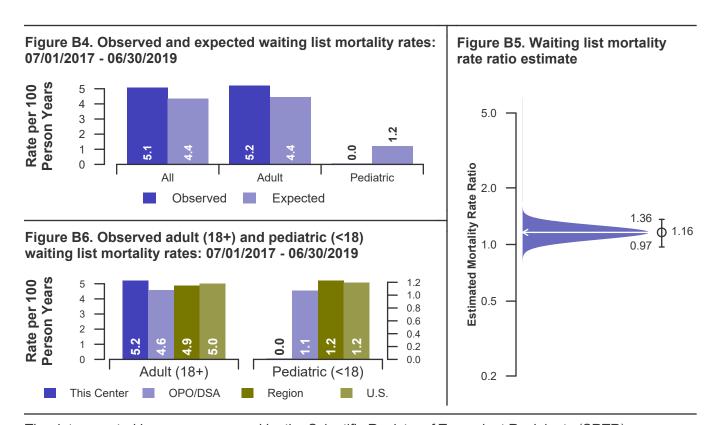
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Table B5. Waiting list mortality rates: 07/01/2017 - 06/30/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	1,272	7,584	22,268	102,722
Person Years**	2,626.9	15,998.7	47,250.1	220,767.9
Number of deaths	133	720	2,271	10,969
Adult (18+) Candidates				
Count on waiting list at start*	1,244	7,463	21,870	101,204
Person Years**	2,561.7	15,719.2	46,432.1	217,592.8
Number of deaths	133	717	2,261	10,931
Pediatric (<18) Candidates				
Count on waiting list at start*	28	121	398	1,518
Person Years**	65.2	279.5	818.1	3,175.2
Number of deaths	0	3	10	38

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

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





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B. Waiting List Information

Table B6. Waiting list candidate status after listing Candidates registered on waiting list between 01/01/2017 and 12/31/2017

Waiting list status (survival status)		Center (Na ns Since L 12	,	U.S. (N=36,696) Months Since Listing 6 12 18		
Alive on waiting list (%)	77.8	70.2	59.8	77.9	64.9	55.0
Died on the waiting list without transplant (%)	2.0	2.8	3.9	1.2	2.2	3.1
Removed without transplant (%):						
Condition worsened (status unknown)	0.6	8.0	1.1	0.7	1.5	2.4
Condition improved (status unknown)	0.6	0.6	0.6	0.1	0.2	0.2
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.2
Other	8.0	1.1	1.7	0.8	1.7	2.8
Transplant (living donor from waiting list only) (%):						
Functioning (alive)	5.3	8.1	8.7	6.6	10.0	8.4
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0
Died	0.0	0.0	0.0	0.0	0.1	0.1
Status Yet Unknown**	0.0	0.0	1.4	0.1	0.4	3.9
Transplant (deceased donor) (%):						
Functioning (alive)	10.4	12.4	13.2	10.4	14.2	12.6
Failed-Retransplanted (alive)	0.0	0.0	0.0	0.0	0.0	0.0
Failed-alive not retransplanted	0.0	0.0	0.0	0.1	0.1	0.0
Died	8.0	8.0	1.4	0.2	0.4	0.7
Status Yet Unknown*	1.4	2.0	6.5	1.6	3.6	9.4
Lost or Transferred (status unknown) (%)	0.3	1.1	1.7	0.3	0.7	1.2
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	2.8	3.7	5.3	1.5	2.7	3.9
Total % known died or removed as unstable	3.4	4.5	6.5	2.1	4.2	6.3
Total % removed for transplant	18.0	23.3	31.2	18.9	28.7	35.1
Total % with known functioning transplant (alive)	15.7	20.5	21.9	17.0	24.2	21.0

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



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Table B7. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 07/01/2013 and 06/30/2016

				-	nted at 1	time per	iods sir	nce listi	ng	
Characteristic		Th	nis Cen	ter			Un	ited Sta	ates	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	1,081	5.1	16.6	21.7	27.8	94,041	2.8	13.4	20.1	25.4
Ethnicity/Race*										
White	274	9.5	22.3	29.2	32.1	37,492	3.2	14.7	21.5	26.6
African-American	201	5.5	17.9	23.4	28.9	30,238	2.4	12.7	19.6	24.8
Hispanic/Latino	421	3.8	16.4	21.1	28.7	17,228	2.8	12.9	19.5	24.9
Asian	183	1.1	7.1	10.4	18.0	7,575	1.6	10.0	16.4	21.9
Other	2	0.0	0.0	0.0	0.0	1,508	2.7	15.7	22.1	27.5
Unknown	0					0				
Age										
<2 years	1	0.0	0.0	0.0	100.0	145	6.2	31.7	49.0	62.1
2-11 years	13	0.0	38.5	46.2	69.2	807	7.2	47.5	62.5	70.6
12-17 years	22	9.1	40.9	50.0	59.1	1,365	7.5	49.1	61.7	67.7
18-34 years	124	2.4	16.9	22.6	28.2	9,544	2.3	13.4	22.3	29.9
35-49 years	294	3.1	13.9	18.4	24.1	23,967	2.4	12.1	19.1	24.9
50-64 years	466	6.0	17.2	22.7	27.7	40,579	2.9	12.5	18.6	23.3
65-69 years	137	8.0	14.6	19.0	26.3	12,055	2.7	12.5	18.3	22.7
70+ years	24	8.3	12.5	16.7	25.0	5,579	2.4	13.1	18.7	22.5
Gender										
Male	656	6.6	16.6	22.0	26.2	58,154	2.9	13.1	19.4	24.5
Female	425	2.8	16.5	21.4	30.1	35,887	2.6	13.9	21.3	26.8

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



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B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 07/01/2013 and 06/30/2016

Characteristic	Percent transplanted at time periods since listing This Center United States									
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	1,081	5.1	16.6	21.7	27.8	94,041	2.8	13.4	20.1	25.4
Blood Type										
0	536	3.0	13.1	18.5	22.0	46,674	2.5	11.5	17.2	21.7
A	327	8.0	21.7	26.0	32.7	29,604	3.3	16.0	24.3	30.9
В	176	6.8	17.6	21.6	33.0	14,235	2.0	10.8	16.5	21.0
AB	42	2.4	16.7	31.0	40.5	3,528	4.6	26.5	38.3	45.3
Previous Transplant										
Yes	217	3.7	24.0	32.3	39.6	13,106	2.3	13.5	21.8	27.5
No	864	5.4	14.7	19.1	24.8	80,935	2.8	13.4	19.8	25.0
Peak PRA/CPRA										
0-9%	992	5.3	16.3	21.0	27.1	76,518	2.9	12.9	19.2	24.4
10-79%	52	1.9	15.4	25.0	28.8	10,354	2.0	13.4	21.0	26.8
80+%	36	0.0	22.2	36.1	41.7	7,085	2.2	17.8	28.1	33.7
Unknown	1	100.0	100.0	100.0	100.0	8	100.0	100.0	100.0	100.0
Primary Disease*										
Glomerular Diseases	237	2.1	18.1	24.5	31.2	16,899	2.1	14.2	22.6	29.4
Tubular & Interstitial Diseases	36	13.9	30.6	30.6	33.3	3,337	4.2	17.4	25.4	30.6
Polycystic Kidneys	57	3.5	19.3	24.6	38.6	6,182	1.6	11.9	19.4	26.3
Congenital, Familial, Metabolic	22	4.5	27.3	31.8	45.5	1,818	3.8	26.6	37.6	45.0
Diabetes	336	2.1	8.0	11.6	15.2	33,115	1.7	9.6	14.5	18.5
Renovascular & Vascular Diseases	2	0.0	0.0	0.0	0.0	135	4.4	15.6	23.7	28.9
Neoplasms	3	0.0	0.0	33.3	33.3	292	2.7	18.2	26.0	30.8
Hypertensive Nephrosclerosis	151	4.6	11.3	18.5	29.1	20,970	2.3	12.6	19.6	25.1
Other	234	12.0	26.9	32.5	36.3	10,890	8.0	22.4	30.1	35.0
Missing*	3	0.0	33.3	33.3	33.3	403	1.0	9.7	15.6	19.9

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



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B. Waiting List Information

Table B9. Time to transplant for waiting list candidates*

Candidates registered on the waiting list between 07/01/2013 and 12/31/2018

	Months to Transplant**								
Percentile	Center	OPO/DSA	Region	U.S.					
5th	0.7	1.1	1.4	1.1					
10th	2.9	3.7	3.8	2.9					
25th	13.1	17.9	15.3	11.1					
50th (median time to transplant)	54.6	Not Observed	Not Observed	50.3					
75th	Not Observed	Not Observed	Not Observed	Not Observed					

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

^{**} Censored on 06/30/2019. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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B. Waiting List Information

Table B10. Offer Acceptance Practices: 07/01/2018 - 06/30/2019

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	28,258	182,917	342,386	1,657,991
Number of Acceptances	157	826	2,403	14,558
Expected Acceptances	83.9	737.9	2,067.5	14,546.9
Offer Acceptance Ratio*	1.85	1.12	1.16	1.00
95% Credible Interval**	[1.57, 2.15]			
Low-KDRI Donors (KDRI < 1.05)	-			
Number of Offers	2,940	20,721	44,826	231,877
Number of Acceptances	37	209	775	4,979
Expected Acceptances	19.7	193.0	689.4	4,980.4
Offer Acceptance Ratio*	1.80	1.08	1.12	1.00
95% Credible Interval**	[1.28, 2.40]			
Medium-KDRI Donors (1.05 < KDRI < 1.75)				
Number of Offers	17,740	117,339	230,749	1,056,662
Number of Acceptances	81	445	1,359	7,967
Expected Acceptances	46.3	410.9	1,184.4	7,955.4
Offer Acceptance Ratio*	1.72	1.08	1.15	1.00
95% Credible Interval**	[1.37, 2.11]			
High-KDRI Donors (KDRI > 1.75)				
Number of Offers	7,578	44,857	66,811	369,452
Number of Acceptances	39	172	269	1,612
Expected Acceptances	17.9	134.0	193.7	1,611.1
Offer Acceptance Ratio*	2.06	1.28	1.38	1.00
95% Credible Interval**	[1.48, 2.74]			
Hard-to-Place Kidneys (Over 100 Offers)				
Number of Offers	26,806	168,752	309,895	1,398,185
Number of Acceptances	24	103	369	2,091
Expected Acceptances	31.6	207.4	374.0	2,096.5
Offer Acceptance Ratio*	0.77	0.50	0.99	1.00
95% Credible Interval**	[0.51, 1.10]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of Cedars-Sinai Medical Center (CACS) 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, [1.57, 2.15], indicates the location of CACS's true offer acceptance ratio with 95% probability. The best estimate is 85% more likely to accept an offer compared to national acceptance behavior, but CACS's performance could plausibly range from 57% higher acceptance up to 115% higher acceptance.



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Higher

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B. Waiting List Information

Figure B7. Offer acceptance: Overall

CACS 0.1 0.4 2.5 10 National

Average

Figure B8. Offer acceptance: Low-KDRI

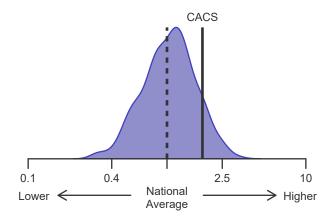
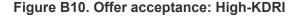
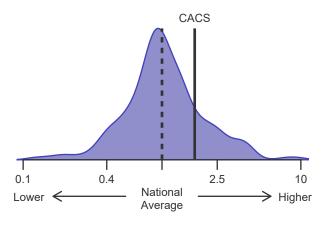


Figure B9. Offer acceptance: Medium-KDRI

Lower ←





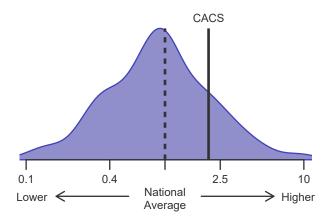
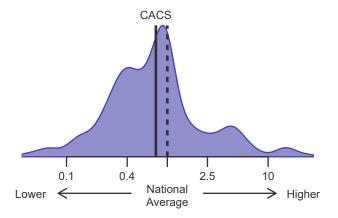


Figure B11. Offer acceptance: Offer number > 100





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Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 07/01/2018 and 06/30/2019

	Perce	Percentage in each category			
Characteristic	Center (N=195)	Region (N=2,600)	U.S. (N=15,530)		
Ethnicity/Race (%)*					
White	16.4	24.9	37.2		
African-American	21.5	11.7	33.2		
Hispanic/Latino	39.0	42.2	19.5		
Asian	23.1	17.5	8.1		
Other	0.0	3.7	1.9		
Unknown	0.0	0.0	0.0		
Age (%)					
<2 years	0.0	0.0	0.1		
2-11 years	0.5	0.9	1.2		
12-17	1.0	2.1	1.8		
18-34	8.7	10.8	9.7		
35-49 years	22.6	23.7	23.8		
50-64 years	40.5	40.7	40.7		
65-69 years	19.5	13.8	13.5		
70+ years	7.2	7.9	9.3		
Gender (%)					
Male	60.5	58.1	60.0		
Female	39.5	41.9	40.0		

^{*} 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 C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 07/01/2018 and 06/30/2019

	Perce	Percentage in each category			
Characteristic	Center (N=57)	Region (N=971)	U.S. (N=6,687)		
Ethnicity/Race (%)*					
White	38.6	48.3	63.7		
African-American	3.5	6.0	12.6		
Hispanic/Latino	33.3	29.4	16.1		
Asian	24.6	13.8	6.2		
Other	0.0	2.6	1.4		
Unknown	0.0	0.0	0.0		
Age (%)					
<2 years	0.0	0.0	0.1		
2-11 years	1.8	1.4	2.0		
12-17	0.0	1.6	1.7		
18-34	12.3	18.6	16.2		
35-49 years	33.3	28.2	26.2		
50-64 years	36.8	33.4	35.9		
65-69 years	12.3	9.3	9.9		
70+ years	3.5	7.4	7.9		
Gender (%)					
Male	64.9	64.0	62.6		
Female	35.1	36.0	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 C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 07/01/2018 and 06/30/2019

	Percentage in each category			
Characteristic	Center (N=195)	Region (N=2,600)	U.S. (N=15,530)	
Blood Type (%)				
0	44.1	47.9	46.4	
A	29.2	32.2	33.7	
В	20.5	15.0	14.5	
AB	6.2	5.0	5.4	
Previous Transplant (%)				
Yes	20.5	14.5	13.0	
No	79.5	85.5	87.0	
Peak PRA/CPRA Prior to Transplant (%)				
0-9%	66.2	54.5	59.3	
10-79%	13.3	21.9	22.8	
80+ %	20.5	23.5	17.9	
Unknown	0.0	0.0	0.0	
Body Mass Index (%)				
0-20	15.9	12.1	9.7	
21-25	31.8	30.3	27.9	
26-30	29.7	31.9	30.6	
31-35	16.9	18.7	21.0	
36-40	5.6	5.2	8.0	
41+	0.0	0.7	1.4	
Unknown	0.0	1.2	1.5	
Primary Disease (%)*				
Glomerular Diseases	19.0	22.4	21.6	
Tubular and Interstitial Disease	6.2	4.0	4.2	
Polycystic Kidneys	6.2	6.7	7.5	
Congenital, Familial, Metabolic	2.1	3.6	2.6	
Diabetes	25.1	29.8	29.0	
Renovascular & Vascular Diseases	0.0	0.3	0.2	
Neoplasms	1.5	0.4	0.4	
Hypertensive Nephrosclerosis	19.0	18.1	23.4	
Other Kidney	20.5	14.4	10.8	
Missing*	0.5	0.3	0.2	

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



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C. Transplant Information

Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 07/01/2018 and 06/30/2019

	Percentage in each category			
Characteristic	Center (N=57)	Region (N=971)	U.S. (N=6,687)	
Blood Type (%)				
0	42.1	42.5	44.5	
A	38.6	38.4	37.8	
В	17.5	14.7	13.5	
AB	1.8	4.3	4.2	
Previous Transplant (%)				
Yes	15.8	9.5	10.9	
No	84.2	90.5	89.1	
Peak PRA/CPRA Prior to Transplant (%)				
0-9%	80.7	72.3	75.0	
10-79%	15.8	23.4	20.2	
80+ %	3.5	4.2	4.7	
Unknown	0.0	0.1	0.1	
Body Mass Index (%)				
0-20	14.0	13.9	12.5	
21-25	31.6	32.6	29.2	
26-30	38.6	30.6	30.2	
31-35	12.3	18.0	19.0	
36-40	3.5	3.6	7.0	
41+	0.0	0.6	1.3	
Unknown	0.0	0.6	0.7	
Primary Disease (%)*				
Glomerular Diseases	33.3	33.6	30.0	
Tubular and Interstitial Disease	3.5	5.3	5.6	
Polycystic Kidneys	12.3	11.8	12.3	
Congenital, Familial, Metabolic	5.3	3.5	3.4	
Diabetes	19.3	22.7	23.2	
Renovascular & Vascular Diseases	0.0	0.5	0.3	
Neoplasms	1.8	0.7	0.6	
Hypertensive Nephrosclerosis	8.8	11.2	15.1	
Other Kidney	15.8	10.2	9.2	
Missing*	0.0	0.5	0.3	

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



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C. Transplant Information

Table C3D. Deceased donor characteristics
Transplants performed between 07/01/2018 and 06/30/2019

	Percentage in each category			
Donor Characteristic	Center (N=195)	Region (N=2,600)	U.S. (N=15,530)	
Cause of Death (%)				
Deceased: Stroke	32.8	26.2	23.5	
Deceased: MVA	11.3	15.4	14.2	
Deceased: Other	55.9	58.3	62.2	
Ethnicity/Race (%)*				
White	43.1	55.3	67.6	
African-American	13.3	8.5	13.7	
Hispanic/Latino	34.4	27.8	14.8	
Asian	8.7	5.5	2.6	
Other	0.5	2.9	1.3	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	2.1	1.5	0.9	
2-11 years	3.1	3.4	2.9	
12-17	2.6	3.2	4.1	
18-34	32.8	31.1	32.8	
35-49 years	25.6	32.4	32.1	
50-64 years	30.8	25.3	24.5	
65-69 years	3.1	2.5	2.0	
70+ years	0.0	0.6	0.6	
Gender (%)				
Male	66.7	63.0	61.2	
Female	33.3	37.0	38.8	
Blood Type (%)				
0	45.1	50.5	48.3	
A	37.9	33.6	36.2	
В	10.3	12.2	12.0	
AB	6.7	3.7	3.5	
Unknown	0.0	0.0	0.0	
No	75.4	84.0	86.3	

^{*} 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 C3L. Living donor characteristics
Transplants performed between 07/01/2018 and 06/30/2019

	Percentage in each category			
Donor Characteristic	Center (N=57)	Region (N=971)	U.S. (N=6,687)	
Ethnicity/Race (%)*				
White	45.6	59.8	69.8	
African-American	1.8	3.2	8.9	
Hispanic/Latino	29.8	24.5	15.1	
Asian	21.1	9.2	4.6	
Other	1.8	3.3	1.6	
Not Reported	0.0	0.0	0.0	
Age (%)				
0-11 years	0.0	0.0	0.0	
12-17	0.0	0.0	0.0	
18-34	21.1	25.5	26.3	
35-49 years	28.1	38.2	38.9	
50-64 years	38.6	31.2	30.2	
65-69 years	10.5	3.8	3.5	
70+ years	1.8	1.2	1.1	
Gender (%)				
Male	29.8	33.2	34.9	
Female	70.2	66.8	65.1	
Blood Type (%)				
0	49.1	57.8	63.0	
A	35.1	31.0	27.7	
В	14.0	10.0	8.1	
AB	1.8	1.2	1.2	
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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Table C4D.	Deceased	donor tran	splant	characte	ristics
Transplants	s performe	d between	07/01/	2018 and	06/30/2019

Transplant Characteristic Center (N=95) (N=260) (N=15,530) Cold Ischemic Time (Hours): Local (%) Secased: 0-11 hr Sec	Transplants performed between 07/01/2018 and 06/30/2019	Percentage in each category		
Deceased: 0-11 hr 37.6 32.6 34.8 Deceased: 12-21 hr 57.4 52.1 47.4 Deceased: 22-31 hr 3.0 12.9 14.4 Deceased: 22-31 hr 1.0 1.7 1.8 Deceased: 32-41 hr 1.0 1.7 1.8 Deceased: 42+ hr 0.0 0.3 0.7 Not Reported 1.0 0.4 0.9 Cold Ischemic Time (Hours): Shared (%) 12.8 44.6 39.7 Deceased: 12-21 hr 12.8 44.6 39.7 Deceased: 12-21 hr 31.9 37.2 35.8 Deceased: 22-31 hr 31.9 37.2 35.8 Deceased: 32-41 hr 1.1 9.1 11.5 Deceased: 32-41 hr 0.0 2.1 3.6 Not Reported 2.1 0.2 0.8 Level of Mismatches (%) 2.1 0.2 0.8 Level of Mismatches (%) 39.0 39.5 38.4 2	Transplant Characteristic	Center	Region	U.S.
Decased: 12-21 hr 30,	Cold Ischemic Time (Hours): Local (%)			
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Deceased: 32-41 hr	Deceased: 12-21 hr	57.4	52.1	47.4
Decased: 42+ hr Not Reported 1.0	Deceased: 22-31 hr			
Not Reported 1.0	Deceased: 32-41 hr	1.0		1.8
Deceased: 0-11 hr	Deceased: 42+ hr	0.0	0.3	0.7
Deceased: 0-11 hr 12.8 6.8 8.7 Deceased: 12-21 hr 52.1 44.6 39.7 Deceased: 12-21 hr 31.9 37.2 35.8 Deceased: 22-31 hr 11.1 9.1 11.5 Deceased: 42-1 hr 0.0 0.2 0.8 Deceased: 42-1 hr 0.0 0.2 0.8 Level of Mismatch (%) A Locus Mismatches (%)		1.0	0.4	0.9
Deceased: 12-21 hr	Cold Ischemic Time (Hours): Shared (%)			
Deceased: 22-31 hr 31.9 37.2 35.8	Deceased: 0-11 hr		6.8	8.7
Deceased: 32-41 hr	Deceased: 12-21 hr			39.7
Deceased: 42+ hr Not Reported 2.1 0.2 0.8 Not Reported Not Reported	Deceased: 22-31 hr	31.9	37.2	35.8
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2	0	13.8	14.3	11.7
Not Reported B Locus Mismatches (%)	1	39.0	39.5	38.4
B Locus Mismatches (%) 0 8.2 8.9 7.5 1 18.5 25.2 24.2 2 71.3 65.3 67.8 Not Reported 2.1 0.6 0.5 DR Locus Mismatches (%) 0 18.5 19.3 16.6 1 42.6 45.2 47.4 2 36.9 34.9 35.4 Not Reported 2.1 0.6 0.5 Total Mismatches (%) 0 6.7 6.2 4.7 1 2.1 1.8 1.3 2 15.2 4.7 1 2.1 1.8 1.3 2 1.5 5.0 4.6 3 12.8 14.3 13.5 4 2.1 1.8 1.3 2 1.5 5.0 4.6 3 12.8 14.3 13.5 4 26.2 27.5 27.7 5 6 33.8 31.5 32.5 6 14.9 13.2 15.2 Not Reported 2.1 0.6 0.5 Procedure Type (%) Kidney alone 80.5 93.0 94.1 Kidney and another organ 19.5 7.0 5.9 Dialysis in First Week After Transplant (%) Yes 55.9 39.4 29.6 No Not Reported 0.0 0.0 0.0 0.4 Sharing (%) Local 51.8 61.3 68.1 Shared 48.2 38.7 31.9	2	45.1	45.5	49.3
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Dialysis in First Week After Transplant (%) Yes 55.9 39.4 29.6 No 44.1 60.5 70.1 Not Reported 0.0 0.0 0.4 Sharing (%) 51.8 61.3 68.1 Shared 48.2 38.7 31.9				
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Local 51.8 61.3 68.1 Shared 48.2 38.7 31.9		0.0	0.0	J. 1
Shared 48.2 38.7 31.9		51.8	61.3	68 1
Median Time in Hospital After Transplant* 6.0 Days 5.0 Days 5.0 Days				
	Median Time in Hospital After Transplant*	6.0 Days	5.0 Days	5.0 Days

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



Center Code: CACS

Transplant Program (Organ): Kidney Release Date: January 7, 2020

Based on Data Available: October 31, 2019

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

C. Transplant Information

Table C4L. Living donor transplant characteristics Transplants performed between 07/01/2018 and 06/30/2019

Transplant Characteristic	Percer Center (N=57)	ntage in each ca Region (N=971)	u.S. (N=6,687)
Relation with Donor (%)			
Related	45.6	41.8	40.0
Unrelated	54.4	57.9	59.8
Not Reported	0.0	0.3	0.1
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	12.3	17.5	16.9
1	54.4	48.4	48.9
2	33.3	27.8	30.8
Not Reported	0.0	6.3	3.4
B Locus Mismatches (%)			
0	7.0	9.9	10.3
1	43.9	41.5	41.9
2	49.1	42.3	44.5
Not Reported	0.0	6.3	3.4
DR Locus Mismatches (%)			
0	12.3	16.3	15.8
1	52.6	45.3	48.1
2	35.1	32.1	32.8
Not Reported	0.0	6.3	3.4
Total Mismatches (%)			
0	5.3	5.6	5.2
1	0.0	3.5	3.6
2	8.8	11.9	12.4
3	29.8	22.8	22.5
4	15.8	16.8	18.0
5	26.3	22.0	22.5
6	14.0	11.1	12.5
Not Reported	0.0	6.3	3.4
Procedure Type (%)			
Kidney alone	100.0	99.9	100.0
Kidney and another organ	0.0	0.1	0.0
Dialysis in First Week After Transplant (%)			
Yes	12.3	3.3	3.1
No	87.7	96.7	96.4
Not Reported	0.0	0.0	0.5
Median Time in Hospital After Transplant*	5.0 Days	4.0 Days	4.0 Days

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



Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

Based on Data Available: October 31, 2019

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

Table C5. Adult (18+) 1-month survival with a functioning graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	427	46,453
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.83%	98.61%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.59%	
Number of observed graft failures (including deaths) during the first month after transplant	5	645
Number of expected graft failures (including deaths) during the first month after transplant	6.06	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.35, 1.62]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

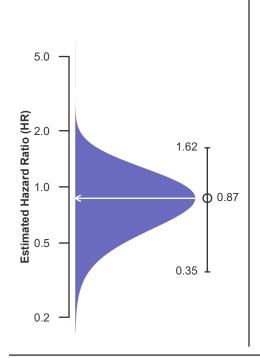
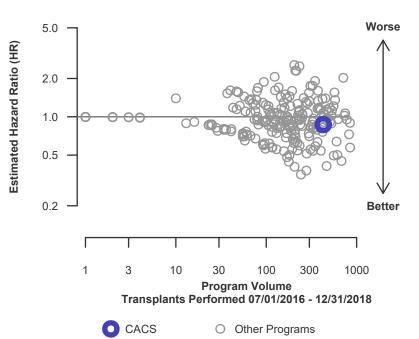


Figure C2. Adult (18+) 1-month graft failure HR program comparison



^{**} The 95% credible interval, [0.35, 1.62], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 65% reduced risk up to 62% increased risk.



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Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	290	31,966
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	98.28%	98.32%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.22%	
Number of observed graft failures (including deaths) during the first month after transplant	5	538
Number of expected graft failures (including deaths) during the first month after transplant	5.17	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.39, 1.82]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

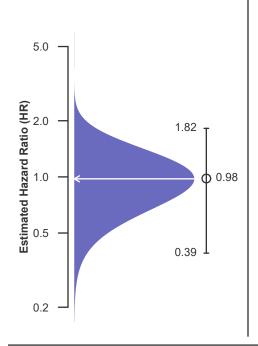
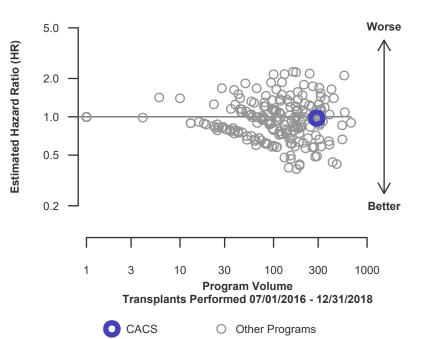


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [0.39, 1.82], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 2% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 61% reduced risk up to 82% increased risk.



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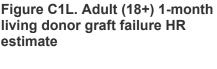
C. Transplant Information

Table C5L. Adult (18+) 1-month survival with a functioning living donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	137	14,487
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.26%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.35%	
Number of observed graft failures (including deaths) during the first month after transplant	0	107
Number of expected graft failures (including deaths) during the first month after transplant	0.89	
Estimated hazard ratio*	0.69	
95% credible interval for the hazard ratio**	[0.08, 1.93]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.08, 1.93], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 31% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 92% reduced risk up to 93% increased risk.



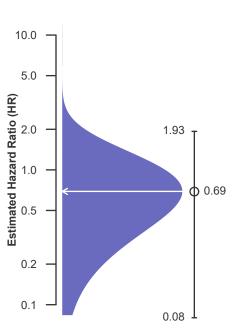
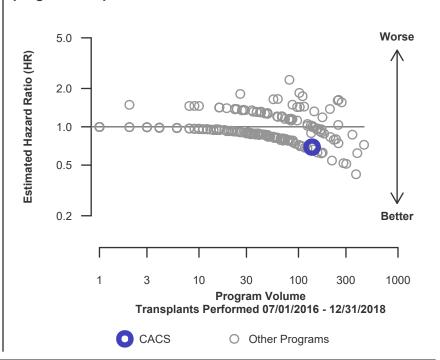


Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison





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Table C6. Adult (18+) 1-year survival with a functioning graft
Single organ transplants performed between 07/01/2016 and 12/31/2018
Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	427	46,453
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	96.54%	95.90%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.80%	
Number of observed graft failures (including deaths) during the first year after transplant	14	1,787
Number of expected graft failures (including deaths) during the first year after transplant	17.01	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.48, 1.30]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

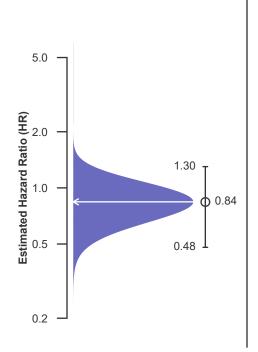
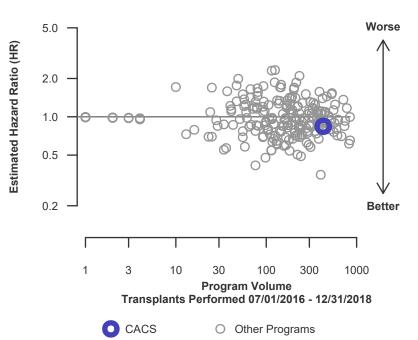


Figure C4. Adult (18+) 1-year graft failure HR program comparison



^{**} The 95% credible interval, [0.48, 1.30], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 16% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 52% reduced risk up to 30% increased risk.



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Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	290	31,966
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	94.92%	94.91%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	94.61%	
Number of observed graft failures (including deaths) during the first year after transplant	14	1,529
Number of expected graft failures (including deaths) during the first year after transplant	14.86	
Estimated hazard ratio*	0.95	
95% credible interval for the hazard ratio**	[0.54, 1.47]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

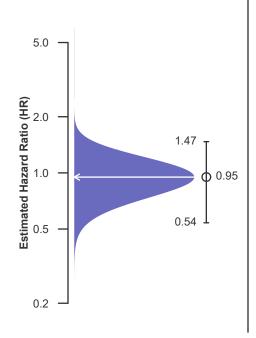
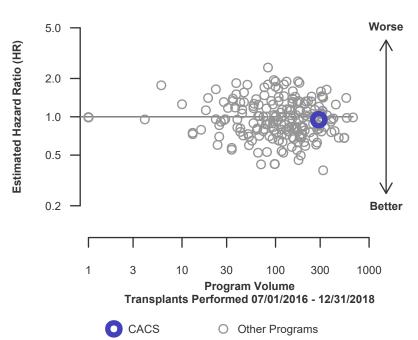


Figure C4D. Adult (18+) 1-year deceased donor graft failure HR program comparison



^{**} The 95% credible interval, [0.54, 1.47], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 5% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 46% reduced risk up to 47% increased risk.



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Table C6L. Adult (18+) 1-year survival with a functioning living donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

CACS	U.S.
137	14,487
100.00%	98.09%
98.32%	
0	258
2.15	
0.48	
[0.06, 1.34]	
	100.00% 98.32% 0 2.15 0.48

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C3L. Adult (18+) 1-year living donor graft failure HR estimate

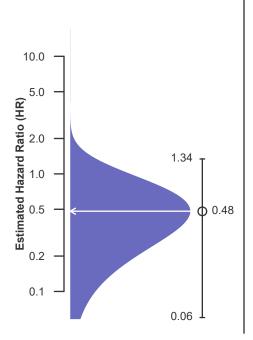
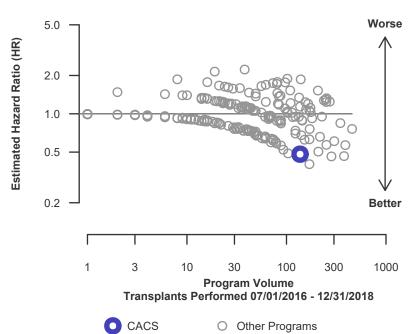


Figure C4L. Adult (18+) 1-year living donor graft failure HR program comparison



^{**} The 95% credible interval, [0.06, 1.34], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 52% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 94% reduced risk up to 34% increased risk.



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Table C7. Adult (18+) 3-year survival with a functioning graft Single organ transplants performed between 01/01/2014 and 06/30/2016 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	432	40,310
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	88.43%	89.02%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	89.74%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	50	4,426
Number of expected graft failures (including deaths) during the first 3 years after transplant	43.49	
Estimated hazard ratio*	1.14	
95% credible interval for the hazard ratio**	[0.85, 1.47]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

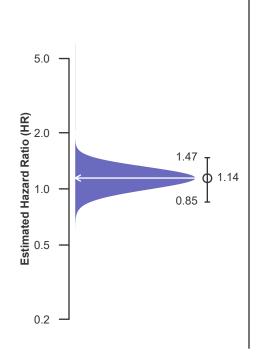
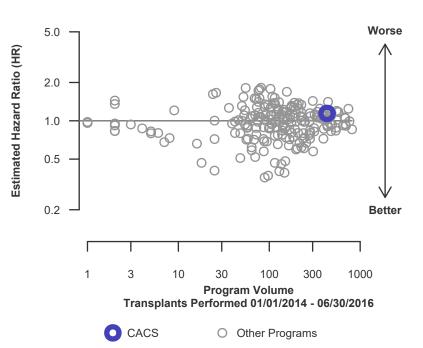


Figure C6. Adult (18+) 3-year graft failure HR program comparison



^{**} The 95% credible interval, [0.85, 1.47], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 14% higher risk of graft failure compared to an average program, but CACS's performance could plausibly range from 15% reduced risk up to 47% increased risk.



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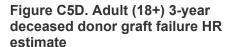
C. Transplant Information

Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2014 and 06/30/2016 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	284	27,101
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	84.86%	86.62%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	87.26%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	43	3,626
Number of expected graft failures (including deaths) during the first 3 years after transplant	35.37	
Estimated hazard ratio*	1.20	
95% credible interval for the hazard ratio**	[0.88, 1.58]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.88, 1.58], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 20% higher risk of graft failure compared to an average program, but CACS's performance could plausibly range from 12% reduced risk up to 58% increased risk.



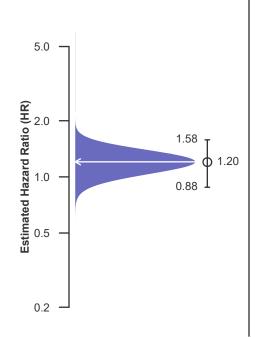
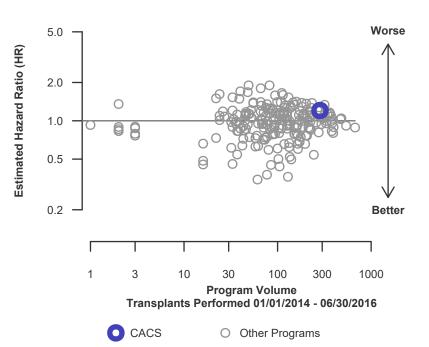


Figure C6D. Adult (18+) 3-year deceased donor graft failure HR program comparison





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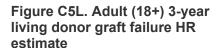
C. Transplant Information

Table C7L. Adult (18+) 3-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2014 and 06/30/2016 Deaths and retransplants are considered graft failures

CACS	U.S.
148	13,209
95.27%	93.94%
94.50%	
7	800
8.12	
0.89	
[0.41, 1.56]	
	148 95.27% 94.50% 7 8.12 0.89

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.41, 1.56], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 11% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 59% reduced risk up to 56% increased risk.



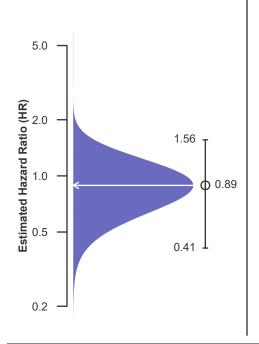
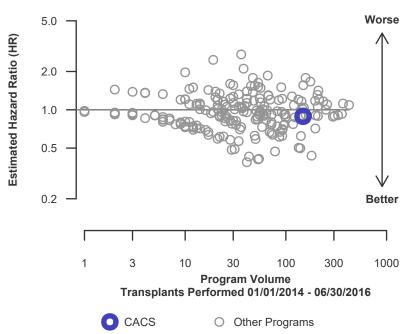


Figure C6L. Adult (18+) 3-year living donor graft failure HR program comparison





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Table C8. Pediatric (<18) 1-month survival with a functioning graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	14	2,099
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.86%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.70%	
Number of observed graft failures (including deaths) during the first month after transplant	0	24
Number of expected graft failures (including deaths) during the first month after transplant	0.18	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.55]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

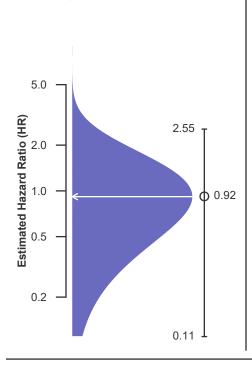
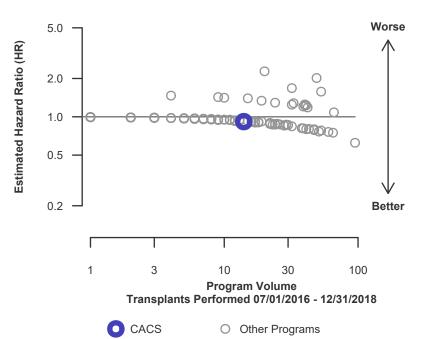


Figure C8. Pediatric (<18) 1-month graft failure HR program comparison



^{**} The 95% credible interval, [0.11, 2.55], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 89% reduced risk up to 155% increased risk.



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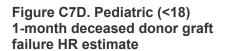
C. Transplant Information

Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered grant failures	CACS	U.S.
Number of transplants evaluated	13	1,417
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.66%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.66%	
Number of observed graft failures (including deaths) during the first month after transplant	0	19
Number of expected graft failures (including deaths) during the first month after transplant	0.18	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.56]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.56], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 8% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 89% reduced risk up to 156% increased risk.



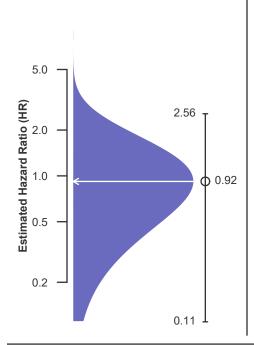
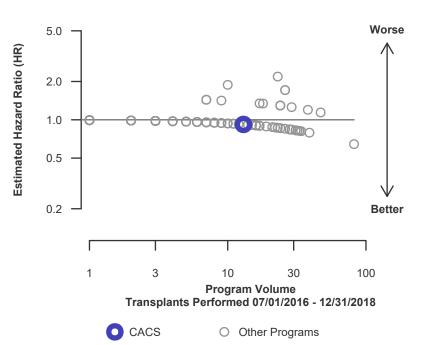


Figure C8D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison





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C. Transplant Information

Table C8L. Pediatric (<18) 1-month survival with a functioning living donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	1	682
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.27%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	99.27%	
Number of observed graft failures (including deaths) during the first month after transplant	0	5
Number of expected graft failures (including deaths) during the first month after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.78]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



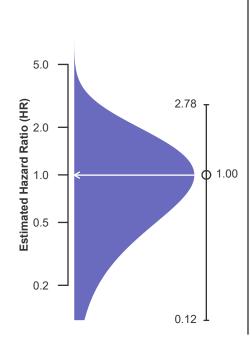
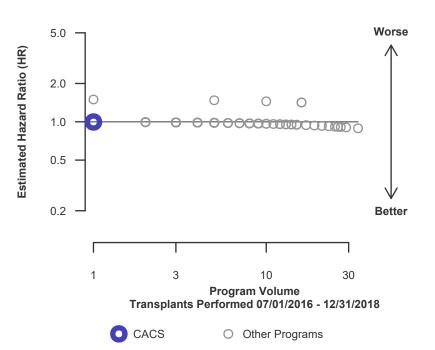


Figure C8L. Pediatric (<18) 1-month living donor graft failure HR program comparison





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Table C9. Pediatric (<18) 1-year survival with a functioning graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	14	2,099
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	98.07%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.68%	
Number of observed graft failures (including deaths) during the first year after transplant	0	38
Number of expected graft failures (including deaths) during the first year after transplant	0.32	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.10, 2.40]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

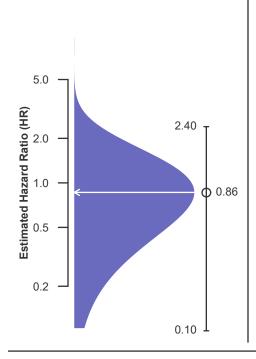
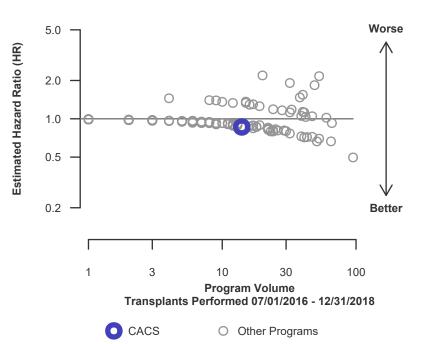


Figure C10. Pediatric (<18) 1-year graft failure HR program comparison



^{**} The 95% credible interval, [0.10, 2.40], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 14% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 90% reduced risk up to 140% increased risk.



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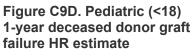
C. Transplant Information

Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	13	1,417
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	97.57%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	97.57%	
Number of observed graft failures (including deaths) during the first year after transplant	0	32
Number of expected graft failures (including deaths) during the first year after transplant	0.31	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.10, 2.41]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.41], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 13% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 90% reduced risk up to 141% increased risk.



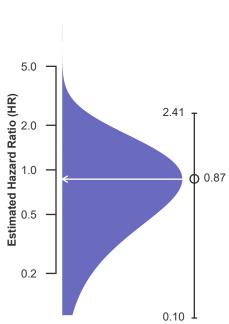
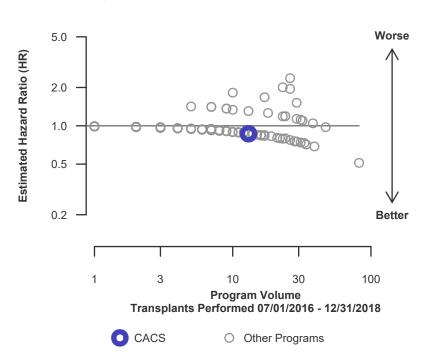


Figure C10D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison





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C. Transplant Information

Table C9L. Pediatric (<18) 1-year survival with a functioning living donor graft Single organ transplants performed between 07/01/2016 and 12/31/2018 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	1	682
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.12%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	99.12%	
Number of observed graft failures (including deaths) during the first year after transplant	0	6
Number of expected graft failures (including deaths) during the first year after transplant	0.01	
Estimated hazard ratio*	1.00	
95% credible interval for the hazard ratio**	[0.12, 2.77]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



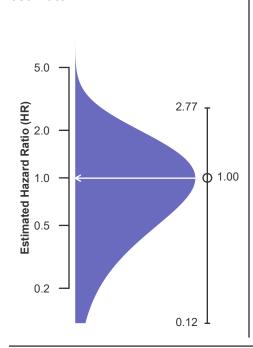
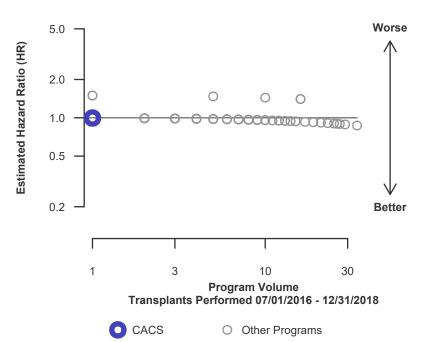


Figure C10L. Pediatric (<18) 1-year living donor graft failure HR program comparison





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Table C10. Pediatric (<18) 3-year survival with a functioning graft Single organ transplants performed between 01/01/2014 and 06/30/2016 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	14	2,039
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	92.59%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.54%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	0	151
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.25	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.07, 1.71]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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

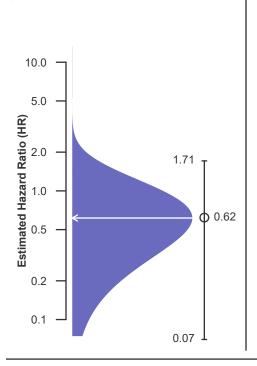
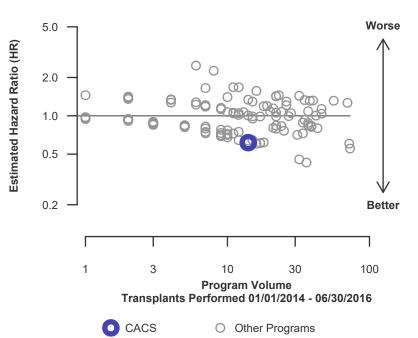


Figure C12. Pediatric (<18) 3-year graft failure HR program comparison



^{**} The 95% credible interval, [0.07, 1.71], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 38% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 93% reduced risk up to 71% 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 01/01/2014 and 06/30/2016 Deaths and retransplants are considered graft failures

Deaths and retransplants are considered graft failures	CACS	U.S.
Number of transplants evaluated	14	1,374
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	100.00%	91.63%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.54%	
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	1.25	
Estimated hazard ratio*	0.62	
95% credible interval for the hazard ratio**	[0.07, 1.71]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS'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 CACS's true hazard ratio with 95% probability. The best estimate is 38% lower risk of graft failure compared to an average program, but CACS's performance could plausibly range from 93% reduced risk up to 71% increased risk.

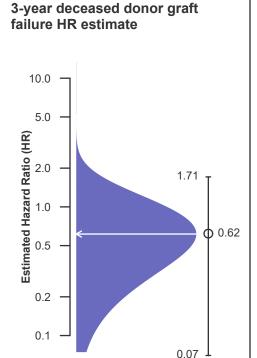
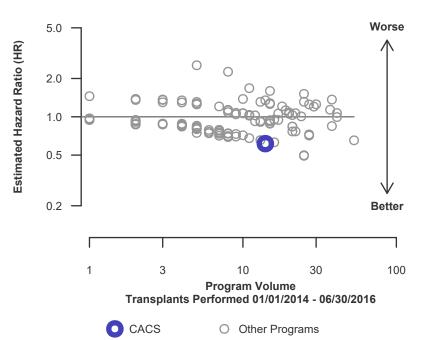


Figure C11D. Pediatric (<18)







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C. Transplant Information

Table C10L. Pediatric (<18) 3-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2014 and 06/30/2016 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2014-06/30/2016

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

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

This center did not perform any transplants relevant to this figure during 01/01/2014-06/30/2016

This center did not perform any transplants relevant to this figure during 01/01/2014-06/30/2016



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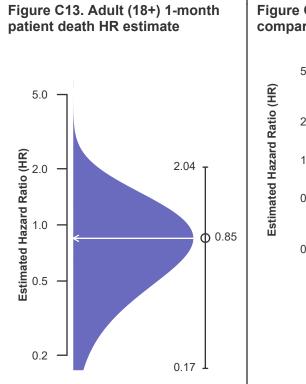
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Table C11. Adult (18+) 1-month patient survival Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

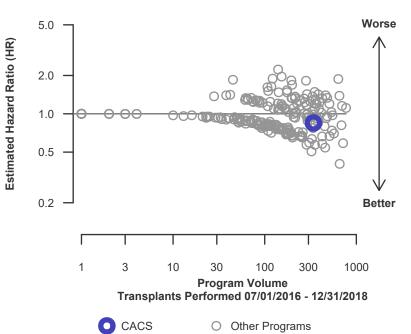
Retransplants excluded	CACS	U.S.
Number of transplants evaluated	340	40,946
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.71%	99.57%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.55%	
Number of observed deaths during the first month after transplant	1	178
Number of expected deaths during the first month after transplant	1.54	
Estimated hazard ratio*	0.85	
95% credible interval for the hazard ratio**	[0.17, 2.04]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death 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 CACS's true hazard ratio with 95% probability. The best estimate is 15% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 83% reduced risk up to 104% increased risk.









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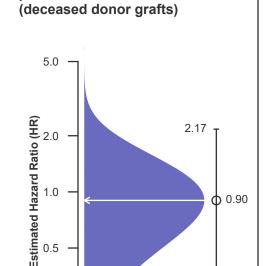
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C. Transplant Information

Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	226	27,873
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	99.56%	99.44%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.41%	
Number of observed deaths during the first month after transplant	1	155
Number of expected deaths during the first month after transplant	1.33	
Estimated hazard ratio*	0.90	
95% credible interval for the hazard ratio**	[0.19, 2.17]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



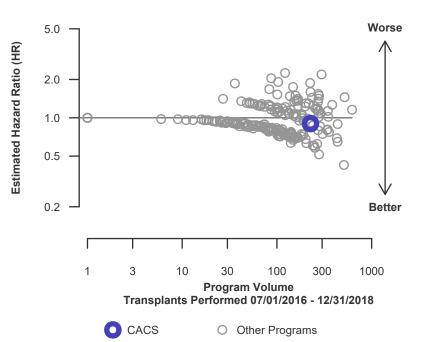
0.19

Figure C13D. Adult (18+) 1-month

patient death HR estimate

0.2





^{**} The 95% credible interval, [0.19, 2.17], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 10% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 81% reduced risk up to 117% increased risk.



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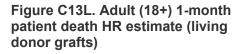
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Table C11L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	114	13,073
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.82%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.82%	
Number of observed deaths during the first month after transplant	0	23
Number of expected deaths during the first month after transplant	0.21	
Estimated hazard ratio*	0.91	
95% credible interval for the hazard ratio**	[0.11, 2.52]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.11, 2.52], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 9% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 89% reduced risk up to 152% increased risk.



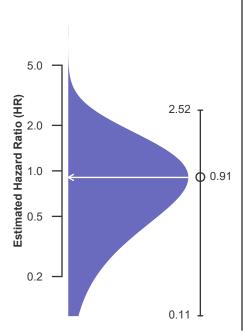
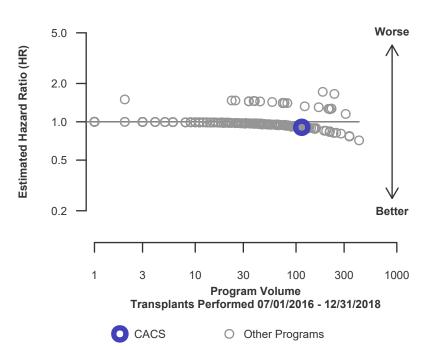


Figure C14L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





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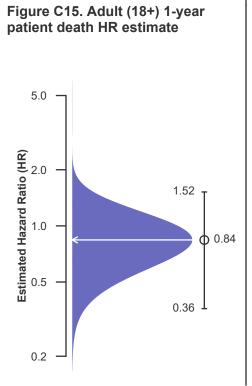
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Table C12. Adult (18+) 1-year patient survival Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

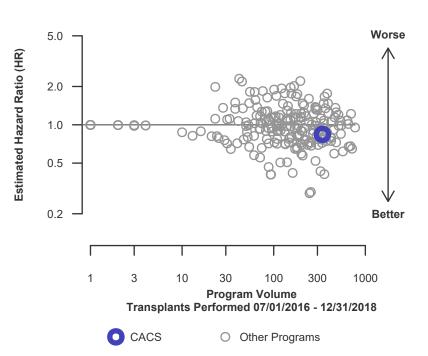
Retransplants excluded	CACS	U.S.
Number of transplants evaluated	340	40,946
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	98.09%	97.71%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.60%	
Number of observed deaths during the first year after transplant	6	856
Number of expected deaths during the first year after transplant	7.51	
Estimated hazard ratio*	0.84	
95% credible interval for the hazard ratio**	[0.36, 1.52]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.36, 1.52], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 16% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 64% reduced risk up to 52% increased risk.









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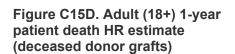
C. Transplant Information

Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	226	27,873
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.14%	97.05%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.86%	
Number of observed deaths during the first year after transplant	6	751
Number of expected deaths during the first year after transplant	6.56	
Estimated hazard ratio*	0.93	
95% credible interval for the hazard ratio**	[0.40, 1.69]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.40, 1.69], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 7% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 60% reduced risk up to 69% increased risk.



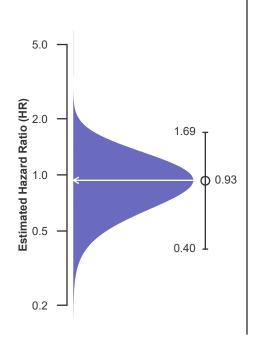
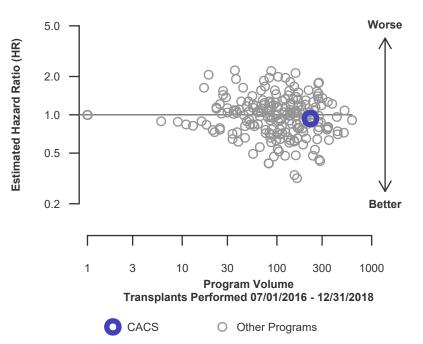


Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





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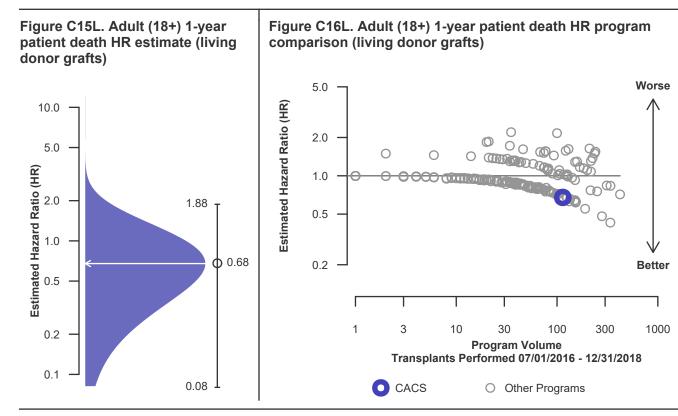
C. Transplant Information

Table C12L. Adult (18+) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	114	13,073
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.12%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.08%	
Number of observed deaths during the first year after transplant	0	105
Number of expected deaths during the first year after transplant	0.96	
Estimated hazard ratio*	0.68	
95% credible interval for the hazard ratio**	[0.08, 1.88]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.08, 1.88], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 32% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 92% reduced risk up to 88% increased risk.





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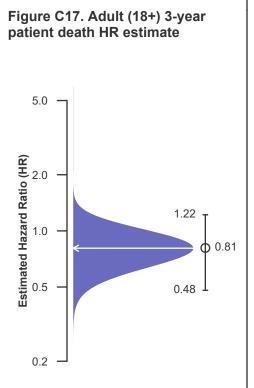
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Table C13. Adult (18+) 3-year patient survival Single organ transplants performed between 01/01/2014 and 06/30/2016 Retransplants excluded

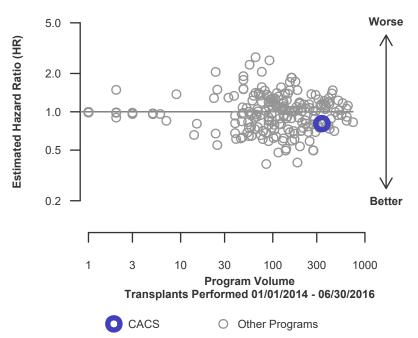
CACS	U.S.
341	34,940
95.31%	93.49%
94.06%	
16	2,276
20.30	
0.81	
[0.48, 1.22]	
	341 95.31% 94.06% 16 20.30 0.81

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.48, 1.22], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 19% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 52% reduced risk up to 22% increased risk.









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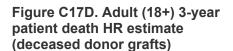
C. Transplant Information

Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2014 and 06/30/2016

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	211	23,108
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	93.36%	91.86%
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	14	1,880
Number of expected deaths during the first 3 years after transplant	16.29	
Estimated hazard ratio*	0.87	
95% credible interval for the hazard ratio**	[0.50, 1.35]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.50, 1.35], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 13% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 50% reduced risk up to 35% increased risk.



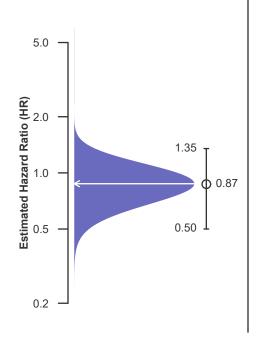
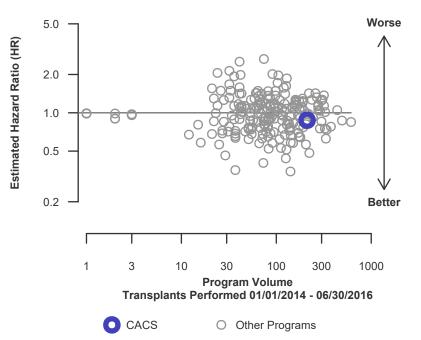


Figure C18D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





Center Code: CACS
Transplant Program (Organ)

Transplant Program (Organ): Kidney Release Date: January 7, 2020

Based on Data Available: October 31, 2019

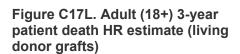
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Table C13L. Adult (18+) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2014 and 06/30/2016 Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	130	11,832
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	98.46%	96.65%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	96.96%	
Number of observed deaths during the first 3 years after transplant	2	396
Number of expected deaths during the first 3 years after transplant	4.00	
Estimated hazard ratio*	0.67	
95% credible interval for the hazard ratio**	[0.18, 1.46]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.18, 1.46], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 33% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 82% reduced risk up to 46% increased risk.



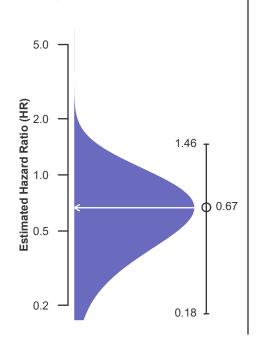
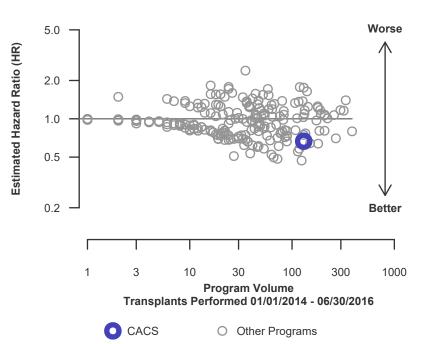


Figure C18L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

Based on Data Available: October 31, 2019

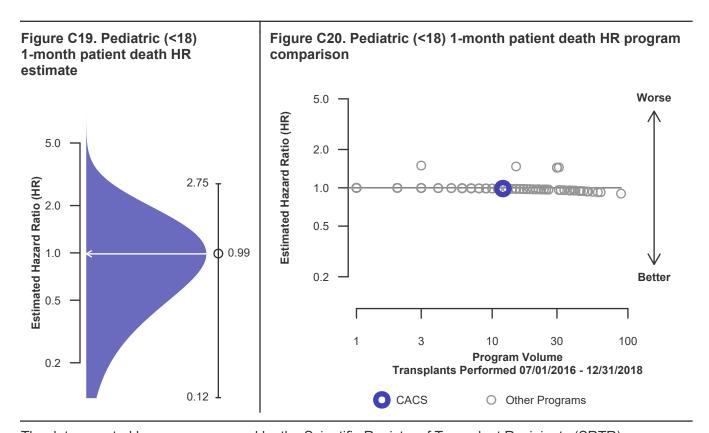
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Table C14. Pediatric (<18) 1-month patient survival Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	12	1,884
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.73%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.76%	
Number of observed deaths during the first month after transplant	0	5
Number of expected deaths during the first month after transplant	0.03	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.75]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

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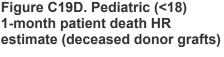
C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018
Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	12	1,258
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.76%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.76%	
Number of observed deaths during the first month after transplant	0	3
Number of expected deaths during the first month after transplant	0.03	
Estimated hazard ratio*	0.99	
95% credible interval for the hazard ratio**	[0.12, 2.75]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



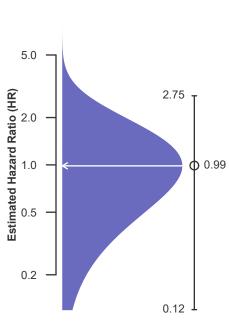
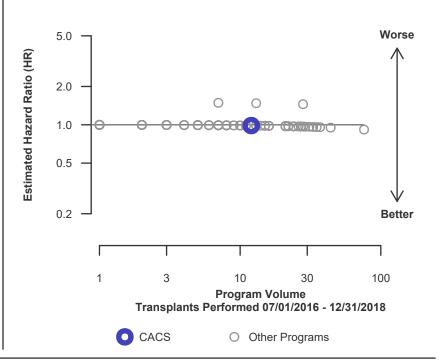


Figure C20D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)





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C. Transplant Information

Table C14L. Pediatric (<18) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2016-12/31/2018

Figure C19L. Pediatric (<18) 1-month patient death HR estimate (living donor grafts) Figure C20L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2016-12/31/2018

This center did not perform any transplants relevant to this figure during 07/01/2016-12/31/2018



Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

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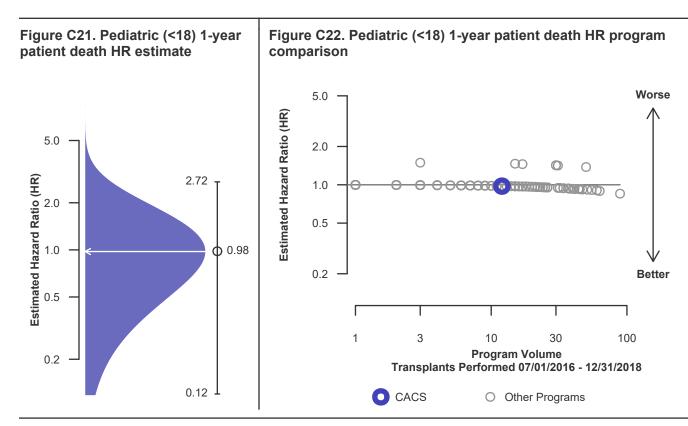
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Table C15. Pediatric (<18) 1-year patient survival Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	12	1,884
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.61%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.58%	
Number of observed deaths during the first year after transplant	0	7
Number of expected deaths during the first year after transplant	0.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS'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 CACS's true hazard ratio with 95% probability. The best estimate is 2% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 88% reduced risk up to 172% increased risk.





Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

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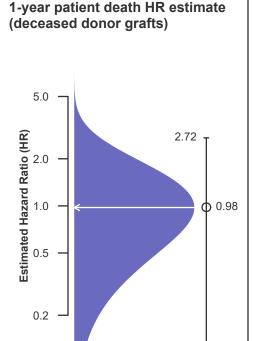
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C. Transplant Information

Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

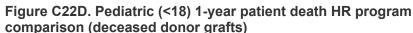
Retransplants excluded	CACS	U.S.
Number of transplants evaluated	12	1,258
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	99.58%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	99.58%	
Number of observed deaths during the first year after transplant	0	5
Number of expected deaths during the first year after transplant	0.05	
Estimated hazard ratio*	0.98	
95% credible interval for the hazard ratio**	[0.12, 2.72]	

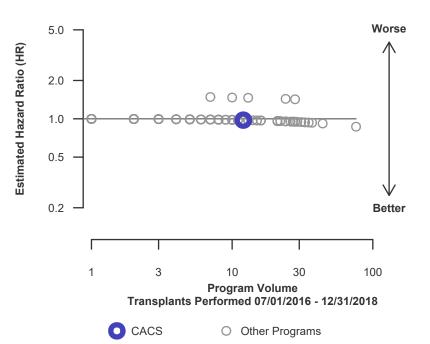
^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.



0.12

Figure C21D. Pediatric (<18)





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



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C. Transplant Information

Table C15L. Pediatric (<18) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2016 and 12/31/2018 Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2016-12/31/2018

Figure C21L. Pediatric (<18)
1-year patient death HR estimate (living donor grafts)

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

This center did not perform any transplants relevant to this figure during 07/01/2016-12/31/2018

This center did not perform any transplants relevant to this figure during 07/01/2016-12/31/2018



Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

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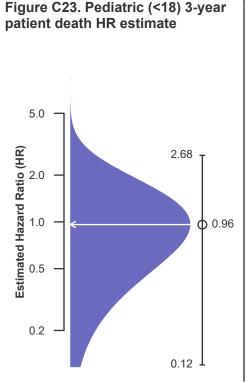
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Table C16. Pediatric (<18) 3-year patient survival
Single organ transplants performed between 01/01/2014 and 06/30/2016
Retransplants excluded

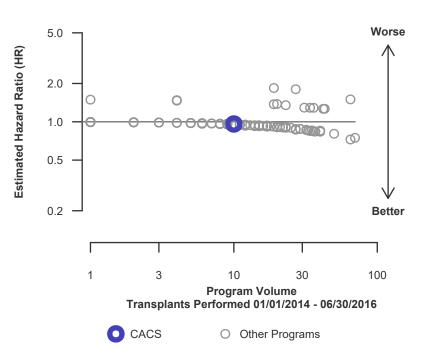
Retransplants excluded	CACS	U.S.
Number of transplants evaluated	10	1,838
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.02%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.19%	
Number of observed deaths during the first 3 years after transplant	0	18
Number of expected deaths during the first 3 years after transplant	0.08	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.68]	
95% credible interval for the hazard ratio**	[0.12, 2.68]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.12, 2.68], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 88% reduced risk up to 168% increased risk.









Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

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C. Transplant Information

Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2014 and 06/30/2016 Retransplants excluded

Retransplants excluded	CACS	U.S.
Number of transplants evaluated	10	1,232
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	100.00%	99.19%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	99.19%	
Number of observed deaths during the first 3 years after transplant	0	10
Number of expected deaths during the first 3 years after transplant	0.08	
Estimated hazard ratio*	0.96	
95% credible interval for the hazard ratio**	[0.12, 2.68]	

^{*} The hazard ratio provides an estimate of how Cedars-Sinai Medical Center (CACS)'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 CACS's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

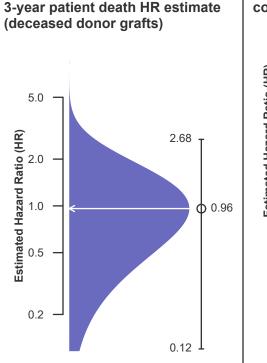
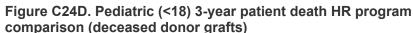
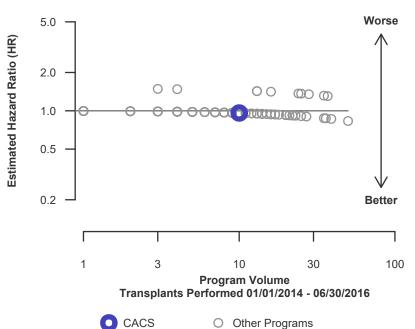


Figure C23D. Pediatric (<18)





^{**} The 95% credible interval, [0.12, 2.68], indicates the location of CACS's true hazard ratio with 95% probability. The best estimate is 4% lower risk of patient death compared to an average program, but CACS's performance could plausibly range from 88% reduced risk up to 168% increased risk.



Center Code: CACS Transplant Program (Organ): Kidney Release Date: January 7, 2020

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C. Transplant Information

Table C16L. Pediatric (<18) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2014 and 06/30/2016 Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2014-06/30/2016

Figure C23L. Pediatric (<18)
3-year patient death HR estimate (living donor grafts)

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

This center did not perform any transplants relevant to this figure during 01/01/2014-06/30/2016

This center did not perform any transplants relevant to this figure during 01/01/2014-06/30/2016



Center Code: CACS

Transplant Program (Organ): Kidney Release Date: January 7, 2020

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C. Transplant Information

Table C17. Multi-organ transplant graft survival: 07/01/2016 - 12/31/2018

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Transplants Type Performed		Kidn Graft Fa	-	Estimated Graft Su	_
	CACS-TX1	USA	CACS-TX1	USA	CACS-TX1	USA
Kidney-Heart	46	463	4	61	91.3%	86.4%
Kidney-Liver	42	1,742	7	203	83.3%	87.9%
Kidney-Pancreas	9	2,007	0	70	100.0%	96.2%

Pediatric (<18) Transplants

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

Table C18. Multi-organ transplant patient survival: 07/01/2016 - 12/31/2018

Adult (18+) Transplants

First-Year Outcomes

Transplant Type	Transp Perfor CACS-TX1	med	Patient D	eaths USA	Estima Patient S CACS-TX1	
Kidney-Heart	46	463	4	43	91.3%	90.3%
Kidney-Liver	42	1,742	4	167	90.5%	89.9%
Kidney-Pancreas	9	2,007	0	43	100.0%	97.7%

Pediatric (<18) Transplants

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



Center Code: CACS

Transplant Program (Organ): Kidney Release Date: January 7, 2020

Based on Data Available: October 31, 2019

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D. Living Donor Information

Table D1. Living donor summary: 07/01/2016 - 06/30/2019

	This Center			U	Inited State	es
Living Donor Follow-Up	07/2016- 06/2017	07/2017- 06/2018	07/2018- 12/2018	07/2016- 06/2017	07/2017- 06/2018	07/2018- 12/2018
Number of Living Donors	53	55	31	5,722	6,153	3,303
6-Month Follow-Up Donors due for follow-up	53	55	31	5,719	6,152	3,298
Timely clinical data	47 88.7%	53 96.4%	30 96.8%	5,100 89.2%	5,392 87.6%	2,864 86.8%
Timely lab data	45 84.9%	50 90.9%	30 96.8%	4,876 85.3%	5,210 84.7%	2,743 83.2%
12-Month Follow-Up Donors due for follow-up	53	55		5,719	6,150	
Timely clinical data	48 90.6%	48 87.3%		4,817 84.2%	5,087 82.7%	
Timely lab data	45 84.9%	47 85.5%		4,565 79.8%	4,811 78.2%	
24-Month Follow-Up Donors due for follow-up	53			5,718		
Timely clinical data	42 79.2%			4,368 76.4%		
Timely lab data	36 67.9%			4,002 70.0%		

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