User Guide

This report contains a wide range of useful information about the kidney-pancreas transplant program at University of Illinois Medical Center (ILUI). The report has three main sections:

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

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

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

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

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

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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed deceased donor transplant rate at this program was 109.5 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

The 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 01/01/2013 and 06/30/2018. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.3 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2018 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 - B12 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.

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

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A. Program Summary

Figure A1. Waiting list and transplant activity

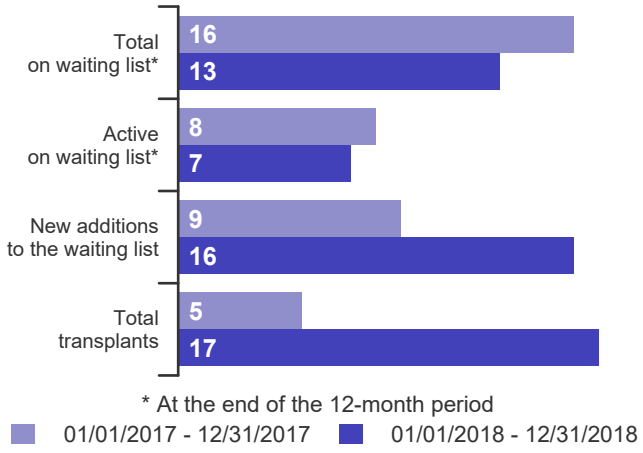


Table A1. Census of transplant recipients

Recipients	01/01/2017-12/31/2017	01/01/2018-12/31/2018
Transplanted at this center	5	17
Followed by this center*	72	72
...transplanted at this program	71	69
...transplanted elsewhere	1	3

* 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 01/01/2017 - 12/31/2018

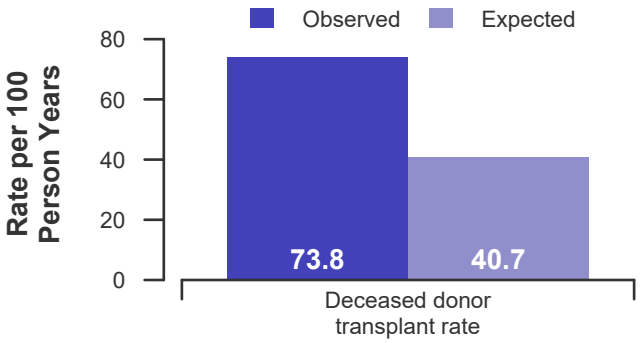


Figure A3. Waiting list mortality rates 01/01/2017 - 12/31/2018

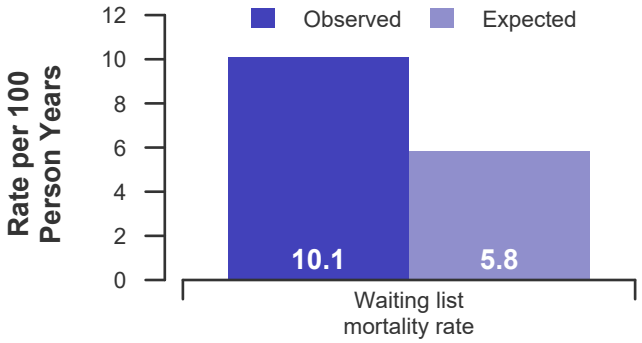


Figure A4. First-year adult graft and patient survival: 01/01/2016 - 06/30/2018

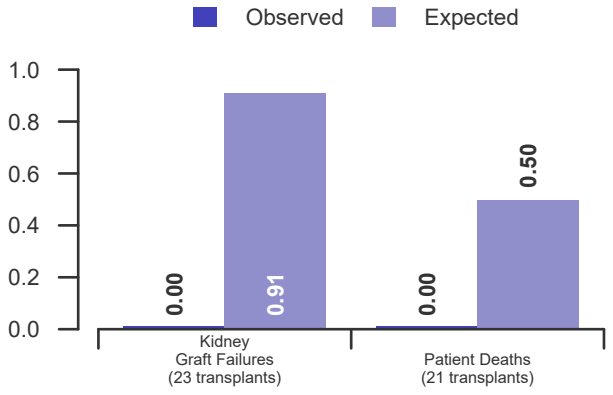


Figure A5. First-year pediatric graft and patient survival: 01/01/2016 - 06/30/2018

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

B. Waiting List Information

Table B1. Waiting list activity summary: 01/01/2017 - 12/31/2018

Waiting List Registrations	Counts for this center		Activity for 01/01/2018 to 12/31/2018 as percent of registrants on waiting list on 01/01/2018		
	01/01/2017-12/31/2017	01/01/2018-12/31/2018	This Center (%)	OPTN Region (%)	U.S. (%)
On waiting list at start	14	16	100.0	100.0	100.0
Additions					
New listings at this center	9	16	100.0	61.0	75.0
Removals					
Transferred to another center	0	0	0.0	1.3	1.9
Received living donor transplant*	0	0	0.0	3.5	4.0
Received deceased donor transplant*	5	17	106.2	40.3	49.9
Died	2	1	6.2	6.3	6.0
Transplanted at another center	0	1	6.2	4.1	3.9
Deteriorated	0	0	0.0	3.5	4.5
Recovered	0	0	0.0	0.0	0.4
Other reasons	0	0	0.0	7.0	8.0
On waiting list at end of period	16	13	81.2	94.9	96.4

* 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.

B. Waiting List Information

Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2018 and 12/31/2018

Demographic Characteristic	New Waiting List Registrations 01/01/2018 to 12/31/2018 (%)			All Waiting List Registrations on 12/31/2018 (%)		
	This Center (N=16)	OPTN Region (N=192)	U.S. (N=1,297)	This Center (N=13)	OPTN Region (N=299)	U.S. (N=1,667)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	25.0	56.2	51.6	7.7	67.9	52.6
African-American	56.2	24.5	28.6	46.2	20.1	28.1
Hispanic/Latino	18.8	10.4	14.8	46.2	6.0	14.9
Asian	0.0	4.2	3.5	0.0	3.3	3.2
Other	0.0	4.7	1.5	0.0	2.7	1.2
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	0.0	0.0	0.0	0.0	0.0	0.0
2-11 years	0.0	0.0	0.2	0.0	0.0	0.1
12-17 years	0.0	0.0	0.1	0.0	0.0	0.1
18-34 years	18.8	17.7	24.8	23.1	16.1	26.3
35-49 years	50.0	50.0	53.9	53.8	46.8	52.4
50-64 years	25.0	30.7	20.4	23.1	36.1	20.8
65+ years	6.2	1.6	0.6	0.0	1.0	0.4
Other (includes prenatal)	0.0	0.0	0.0	0.0	0.0	0.0
Gender (%)						
Male	56.2	55.2	55.3	53.8	59.2	53.6
Female	43.8	44.8	44.7	46.2	40.8	46.4

* 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%.

B. Waiting List Information

Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2018 and 12/31/2018

Medical Characteristic	New Waiting List Registrations 01/01/2018 to 12/31/2018 (%)			All Waiting List Registrations on 12/31/2018 (%)		
	This Center (N=16)	OPTN Region (N=192)	U.S. (N=1,297)	This Center (N=13)	OPTN Region (N=299)	U.S. (N=1,667)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
O	68.8	53.1	50.0	69.2	52.5	49.0
A	12.5	31.2	32.4	15.4	30.8	29.9
B	18.8	11.5	14.5	7.7	12.0	17.5
AB	0.0	4.2	3.2	7.7	4.7	3.7
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	6.2	10.9	5.2	23.1	12.4	9.1
No	93.8	89.1	94.8	76.9	87.6	90.9
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Initial CPRA (%)						
0-9%	68.8	78.1	79.6	84.6	71.9	74.3
10-79%	31.2	14.1	14.5	7.7	17.7	15.7
80+%	0.0	7.8	5.9	7.7	10.4	10.1
Unknown	0.0	0.0	0.0	0.0	0.0	0.0

B. Waiting List Information

Table B4D. Deceased donor transplant rates: 01/01/2017 - 12/31/2018

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	14	114	493	2,512
Person Years**	29.8	226.7	984.0	4,730.4
Removals for Transplant	22	102	325	1,968
Adult (18+) Candidates				
Count on waiting list at start*	14	114	493	2,507
Person Years**	29.8	226.7	983.1	4,724.7
Removals for transpant	22	102	323	1,961
Pediatric (<18) Candidates				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Removals for transplant	--	--	--	--

Since candidates listed for combined liver-intestine transplants are also often listed for a pancreas for vascular continuity, candidates simultaneously listed for intestine transplants are not included in this table.

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

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

Figure B1D. Observed and expected deceased donor transplant rates: 01/01/2017 - 12/31/2018

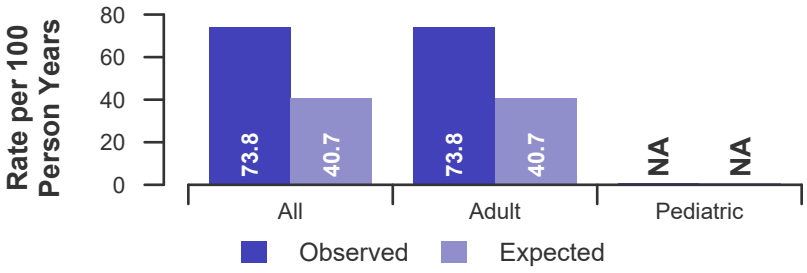


Figure B2D. Deceased donor transplant rate ratio estimate

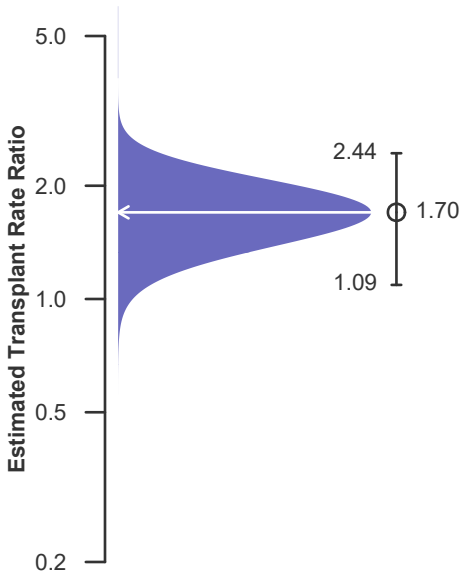
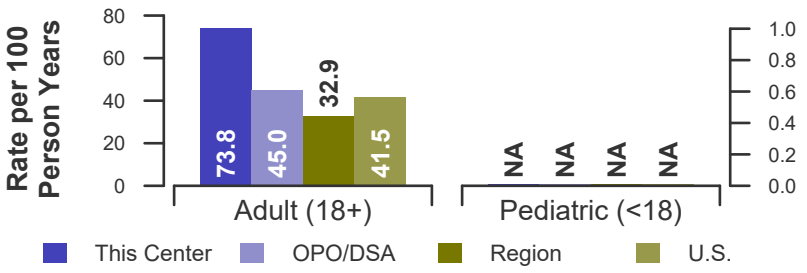


Figure B3D. Observed adult (18+) and pediatric (<18) deceased donor transplant rates: 01/01/2017 - 12/31/2018



B. Waiting List Information

Table B5. Waiting list mortality rates: 01/01/2017 - 12/31/2018

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	14	114	493	2,512
Person Years**	29.8	249.6	1,081.7	5,490.8
Number of deaths	3	10	49	269
Adult (18+) Candidates				
Count on waiting list at start*	14	114	493	2,507
Person Years**	29.8	249.6	1,080.8	5,483.4
Number of deaths	3	10	49	268
Pediatric (<18) Candidates				
Count on waiting list at start*	--	--	--	--
Person Years**	--	--	--	--
Number of deaths	--	--	--	--

Since candidates listed for combined liver-intestine transplants are also often listed for a pancreas for vascular continuity, candidates simultaneously listed for intestine transplants are not included in this table.

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

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

Figure B4. Observed and expected waiting list mortality rates: 01/01/2017 - 12/31/2018

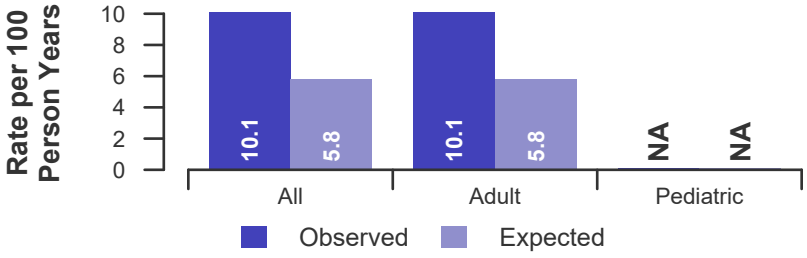


Figure B5. Waiting list mortality rate ratio estimate

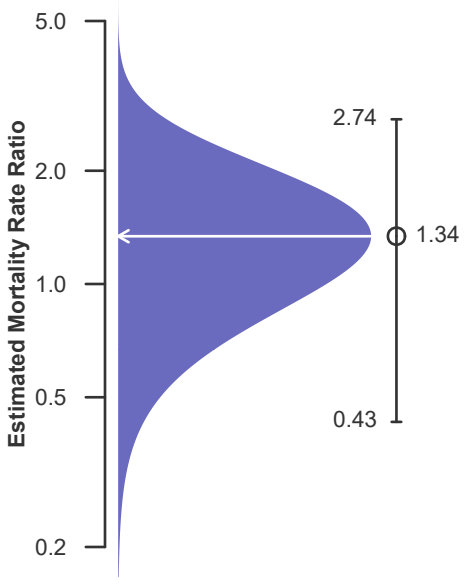
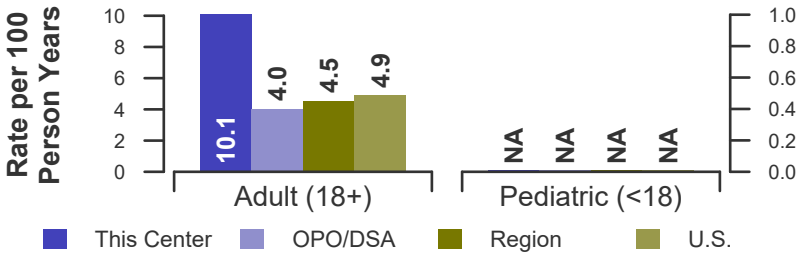


Figure B6. Observed adult (18+) and pediatric (<18) waiting list mortality rates: 01/01/2017 - 12/31/2018



B. Waiting List Information

Table B6. Waiting list candidate status after listing
Candidates registered on waiting list between 07/01/2016 and 06/30/2017

Waiting list status (survival status)	This Center (N=7) Months Since Listing 6	12	18	U.S. (N=1,191) Months Since Listing 6	12	18
Kidney						
Alive on waiting list (%)	71.4	28.6	28.6	59.1	39.5	28.7
Died on the waiting list without transplant (%)	0.0	14.3	14.3	0.5	1.7	2.5
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	0.8	1.5	2.4
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.1	0.1
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.2
Other	0.0	0.0	0.0	0.8	2.5	4.0
Transplant (living or deceased donor) (%):						
Functioning (alive)	28.6	57.1	42.9	34.9	47.4	35.8
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	0.3	0.4	0.3
Died	0.0	0.0	0.0	0.3	0.5	0.9
Status Yet Unknown*	0.0	0.0	14.3	2.9	5.5	23.9
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.8	1.2
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	14.3	14.3	0.8	2.2	3.4
Total % known died or removed as unstable	0.0	14.3	14.3	1.6	3.7	5.8
Total % removed for transplant	28.6	57.1	57.1	38.4	53.8	61.0
Total % with known functioning transplant (alive)	28.6	57.1	42.9	34.9	47.4	35.8
Pancreas						
Alive on waiting list (%)	71.4	28.6	28.6	59.1	39.5	28.7
Died on the waiting list without transplant (%)	0.0	14.3	14.3	0.5	1.7	2.5
Removed without transplant (%):						
Condition worsened (status unknown)	0.0	0.0	0.0	0.8	1.5	2.4
Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.1	0.1
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.2
Other	0.0	0.0	0.0	0.8	2.5	4.0
Transplant (living or deceased donor) (%):						
Functioning (alive)	14.3	42.9	28.6	30.1	40.2	29.9
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	1.2	2.2	1.8
Died	0.0	0.0	0.0	0.3	0.5	0.8
Status Yet Unknown*	14.3	14.3	28.6	6.7	10.9	28.5
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.8	1.2
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died on waiting list or after transplant	0.0	14.3	14.3	0.8	2.2	3.4
Total % known died or removed as unstable	0.0	14.3	14.3	1.6	3.7	5.7
Total % removed for transplant	28.6	57.1	57.1	38.4	53.8	61.0
Total % with known functioning transplant (alive)	14.3	42.9	28.6	30.1	40.2	29.9

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

B. Waiting List Information

Table B7. Percent of candidates with deceased donor transplants: demographic characteristics
Candidates registered on the waiting list between 01/01/2013 and 12/31/2015

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	47	10.6	48.9	61.7	66.0	3,599	6.2	39.6	52.0	56.9
Ethnicity/Race*										
White	14	14.3	42.9	71.4	71.4	2,071	5.6	39.0	52.1	57.2
African-American	15	13.3	66.7	66.7	80.0	865	6.5	38.2	49.7	54.8
Hispanic/Latino	15	6.7	40.0	53.3	53.3	514	8.8	43.8	55.1	59.7
Asian	2	0.0	50.0	50.0	50.0	111	5.4	46.8	59.5	61.3
Other	1	0.0	0.0	0.0	0.0	38	0.0	26.3	34.2	42.1
Unknown	0	--	--	--	--	0	--	--	--	--
Age										
<2 years	0	--	--	--	--	1	0.0	0.0	0.0	0.0
2-11 years	0	--	--	--	--	2	0.0	50.0	50.0	50.0
12-17 years	0	--	--	--	--	5	20.0	40.0	40.0	40.0
18-34 years	14	14.3	64.3	71.4	78.6	968	6.2	40.6	54.4	58.8
35-49 years	30	6.7	43.3	60.0	63.3	1,883	6.1	40.1	52.6	57.6
50-64 years	3	33.3	33.3	33.3	33.3	731	6.6	36.9	47.6	53.4
65+ years	0	--	--	--	--	9	0.0	33.3	33.3	33.3
Other (includes prenatal)	0	--	--	--	--	0	--	--	--	--
Gender										
Male	24	20.8	58.3	75.0	79.2	2,082	6.5	41.7	54.6	60.0
Female	23	0.0	39.1	47.8	52.2	1,517	5.9	36.6	48.5	52.7

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

B. Waiting List Information

Table B8. Percent of candidates with deceased donor transplants: medical characteristics
Candidates registered on the waiting list between 01/01/2013 and 12/31/2015

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	47	10.6	48.9	61.7	66.0	3,599	6.2	39.6	52.0	56.9
Blood Type										
O	27	3.7	33.3	48.1	55.6	1,685	6.8	38.4	51.4	56.0
A	9	11.1	77.8	88.9	88.9	1,303	5.8	41.0	54.0	59.6
B	7	14.3	71.4	71.4	71.4	473	4.0	35.7	44.6	49.3
AB	4	50.0	50.0	75.0	75.0	138	11.6	53.6	65.9	69.6
Previous Transplant										
Yes	7	14.3	42.9	57.1	57.1	286	3.8	19.2	25.5	30.1
No	40	10.0	50.0	62.5	67.5	3,313	6.4	41.3	54.3	59.3
Peak PRA/CPRA										
0-9%	38	10.5	50.0	65.8	68.4	3,011	6.6	41.9	55.1	60.1
10-79%	5	20.0	60.0	60.0	80.0	385	6.0	34.5	44.7	49.9
80+%	4	0.0	25.0	25.0	25.0	203	1.5	14.3	20.7	23.6
Unknown	0	--	--	--	--	0	--	--	--	--
Years Since Diabetes Onset										
0-20	14	14.3	64.3	71.4	78.6	919	6.1	41.5	53.0	58.0
20-30	13	15.4	46.2	53.8	61.5	1,430	6.2	39.2	52.6	57.5
30 +	5	0.0	40.0	60.0	60.0	1,025	5.6	36.6	49.6	55.0
Unknown	15	6.7	40.0	60.0	60.0	225	9.8	47.6	55.6	57.8

B. Waiting List Information

Table B9. Time to transplant for waiting list candidates*
Candidates registered on the waiting list between 01/01/2013 and 06/30/2018

	Months to Transplant**			
Percentile	**Center**	**OPO/DSA**	**Region**	**U.S.**
5th	0.3	0.7	0.6	0.6
10th	0.6	1.2	1.2	1.1
25th	1.7	4.3	4.5	3.6
50th (median time to transplant)	8.2	12.9	15.8	12.3
75th	37.0	Not Observed	Not Observed	Not Observed

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

** Censored on 12/31/2018. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.

B. Waiting List Information

Table B10. Offer Acceptance Practices: 01/01/2018 - 12/31/2018

Offers Acceptance Characteristics	This Center	OPO/DSA	Region	U.S.
Overall				
Number of Offers	102	287	864	5,544
Number of Acceptances	17	48	126	828
Expected Acceptances	15.5	49.4	111.1	824.9
Offer Acceptance Ratio*	1.08	0.97	1.13	1.00
95% Credible Interval**	[0.65, 1.62]	--	--	--
PHS increased infectious risk				
Number of Offers	24	93	246	1,732
Number of Acceptances	1	10	27	219
Expected Acceptances	2.2	10.8	28.2	218.4
Offer Acceptance Ratio*	0.72	0.94	0.96	1.00
95% Credible Interval**	[0.15, 1.73]	--	--	--
High risk donor				
Number of Offers	23	68	273	911
Number of Acceptances	0	5	28	61
Expected Acceptances	2.0	7.6	20.8	69.9
Offer Acceptance Ratio*	0.49	0.73	1.31	0.88
95% Credible Interval**	[0.06, 1.38]	--	--	--
Donor BMI > 28				
Number of Offers	28	49	186	1,102
Number of Acceptances	2	5	13	129
Expected Acceptances	4.3	7.3	16.1	139.2
Offer Acceptance Ratio*	0.63	0.75	0.83	0.93
95% Credible Interval**	[0.17, 1.39]	--	--	--
Hard-to-Place Donor (Over 10 Offers)				
Number of Offers	40	106	501	2,447
Number of Acceptances	1	10	28	99
Expected Acceptances	1.4	4.3	19.9	99.0
Offer Acceptance Ratio*	0.90	1.91	1.37	1.00
95% Credible Interval**	[0.18, 2.16]	--	--	--
Donor more than 250 miles away				
Number of Offers	41	78	480	2,499
Number of Acceptances	1	6	34	175
Expected Acceptances	1.9	3.3	21.8	173.4
Offer Acceptance Ratio*	0.76	1.50	1.51	1.01
95% Credible Interval**	[0.16, 1.84]	--	--	--

* The offer acceptance ratio estimates the relative offer acceptance practice of University of Illinois Medical Center (ILUI) compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer), while a ratio below one indicates the program is less likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a 25% less likely to accept an offer).
** As an example, the 95% Credible Interval for the overall offer acceptance ratio, [0.65, 1.62], indicates the location of ILUI's true offer acceptance ratio with 95% probability. The best estimate is 8% more likely to accept an offer compared to national acceptance behavior, but ILUI's performance could plausibly range from 35% reduced acceptance up to 62% higher acceptance.

B. Waiting List Information

Figure B7. Offer acceptance: Overall

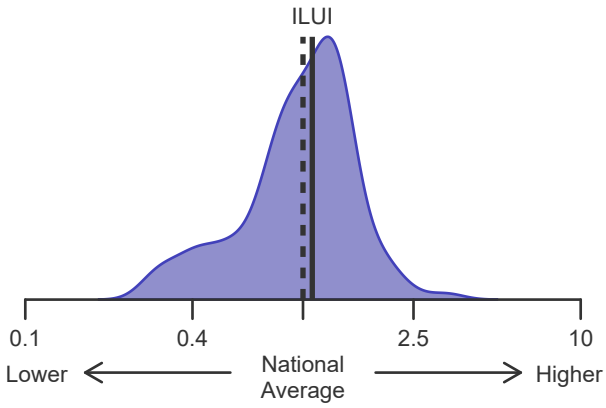


Figure B8. Offer acceptance: PHS increased infectious risk

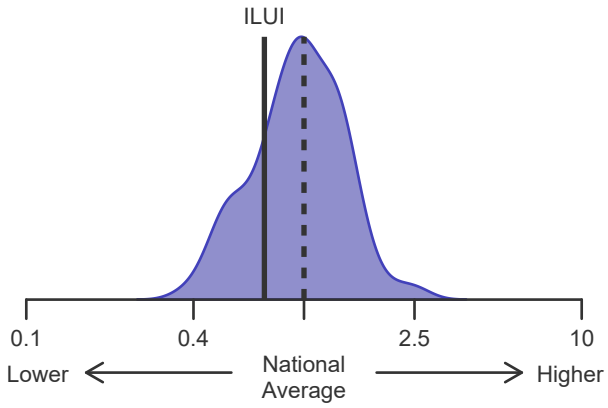


Figure B9. Offer acceptance: High risk donor

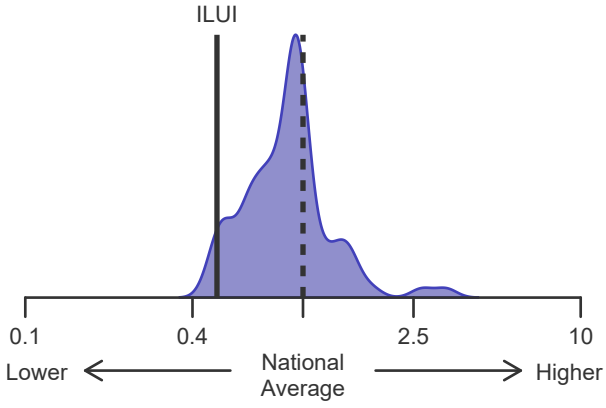


Figure B10. Offer acceptance: Donor BMI > 28

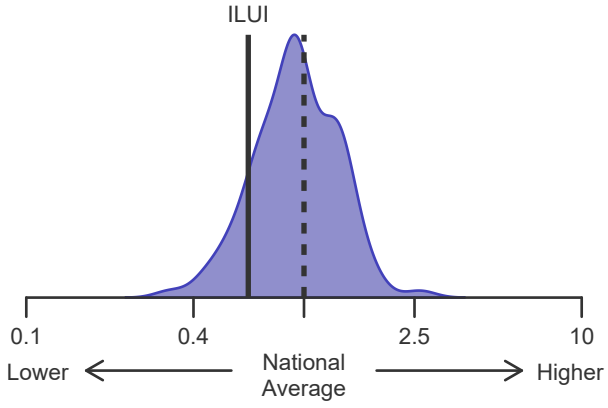


Figure B11. Offer acceptance: Offer number > 10

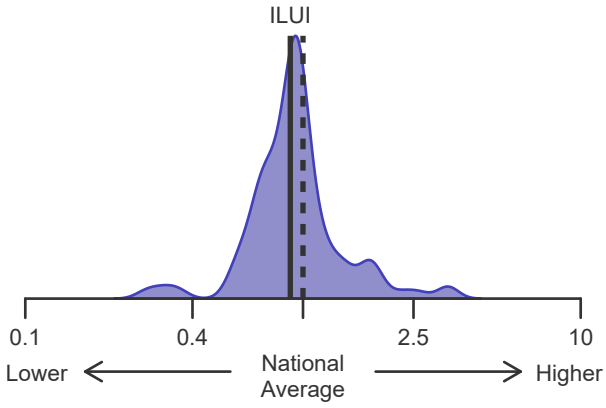
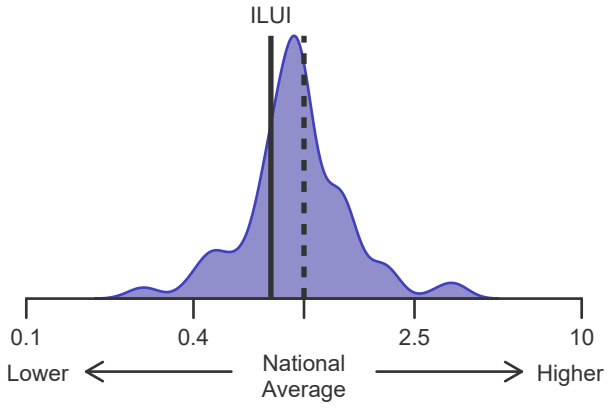


Figure B12. Offer acceptance: Donor more than 250 miles away



C. Transplant Information

Table C1D. Deceased donor transplant recipient demographic characteristics
Patients transplanted between 01/01/2018 and 12/31/2018

Characteristic	Percentage in each category		
	Center (N=17)	Region (N=126)	U.S. (N=835)
Ethnicity/Race (%)*			
White	23.5	50.8	48.5
African-American	41.2	27.0	29.9
Hispanic/Latino	35.3	15.1	16.6
Asian	0.0	4.0	2.8
Other	0.0	3.2	2.2
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	0.0
2-11 years	0.0	0.0	0.1
12-17	0.0	0.0	0.0
18-34	17.6	21.4	21.2
35-49 years	47.1	49.2	55.6
50-64 years	29.4	28.6	22.2
65+ years	5.9	0.8	1.0
Unknown	0.0	0.0	0.0
Gender (%)			
Male	41.2	62.7	62.4
Female	58.8	37.3	37.6

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

C. Transplant Information

Table C2D. Deceased donor transplant recipient medical characteristics
Patients transplanted between 01/01/2018 and 12/31/2018

Characteristic	Percentage in each category		
	Center (N=17)	Region (N=126)	U.S. (N=835)
Blood Type (%)			
O	47.1	46.8	51.7
A	29.4	34.9	33.8
B	23.5	15.9	12.0
AB	0.0	2.4	2.5
Previous Transplant (%)			
Yes	5.9	7.1	3.2
No	94.1	92.9	96.8
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	64.7	63.5	71.5
10-79%	29.4	32.5	24.3
80+ %	5.9	4.0	4.2
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	11.8	8.7	10.7
21-25	17.6	42.9	45.7
26-30	35.3	36.5	36.4
31+	35.3	11.9	6.3
Unknown	0.0	0.0	0.8

C. Transplant Information

Table C3D. Deceased donor characteristics
Transplants performed between 01/01/2018 and 12/31/2018

Donor Characteristic	Percentage in each category		
	Center (N=17)	Region (N=126)	U.S. (N=835)
Cause of Death (%)			
Deceased: Stroke	17.6	15.9	9.8
Deceased: MVA	17.6	23.0	24.3
Deceased: Other	64.7	61.1	65.9
Ethnicity/Race (%)*			
White	17.6	64.3	61.3
African-American	52.9	20.6	20.2
Hispanic/Latino	23.5	12.7	15.0
Asian	5.9	2.4	2.8
Other	0.0	0.0	0.7
Not Reported	0.0	0.0	0.0
Age (%)			
<2 years	0.0	0.0	0.1
2-11 years	17.6	11.1	3.6
12-17	5.9	12.7	15.9
18-34	64.7	57.9	66.7
35-49 years	11.8	18.3	13.4
50-64 years	0.0	0.0	0.2
65+ years	0.0	0.0	0.0
Unknown	0.0	0.0	0.0
Gender (%)			
Male	76.5	67.5	69.1
Female	23.5	32.5	30.9
Blood Type (%)			
O	47.1	46.8	52.0
A	29.4	36.5	35.2
B	23.5	15.9	12.0
AB	0.0	0.8	0.8
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%.

C. Transplant Information

Table C4D. Deceased donor transplant characteristics
Transplants performed between 01/01/2018 and 12/31/2018

Transplant Characteristic	Percentage in each category		
	Center (N=17)	Region (N=126)	U.S. (N=835)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-11 hr	86.7	75.0	79.1
Deceased: 12-21 hr	13.3	25.0	18.9
Deceased: 22-31 hr	0.0	0.0	0.5
Deceased: 32-41 hr	0.0	0.0	0.0
Deceased: 42+ hr	0.0	0.0	0.2
Not Reported	0.0	0.0	1.3
Cold Ischemic Time (Hours): Shared (%)			
Deceased: 0-11 hr	50.0	14.3	45.6
Deceased: 12-21 hr	50.0	81.0	51.3
Deceased: 22-31 hr	0.0	4.8	2.7
Deceased: 32-41 hr	0.0	0.0	0.4
Deceased: 42+ hr	0.0	0.0	0.0
Not Reported	0.0	0.0	0.0
Level of Mismatch (%)			
A Locus Mismatches (%)			
0	11.8	12.7	7.5
1	41.2	35.7	42.6
2	47.1	51.6	49.8
Not Reported	0.0	0.0	0.0
B Locus Mismatches (%)			
0	5.9	1.6	1.8
1	17.6	22.2	23.7
2	76.5	76.2	74.5
Not Reported	0.0	0.0	0.0
DR Locus Mismatches (%)			
0	5.9	5.6	6.7
1	35.3	38.1	38.9
2	58.8	56.3	54.4
Not Reported	0.0	0.0	0.0
Total Mismatches (%)			
0	0.0	0.0	0.5
1	0.0	0.0	0.2
2	5.9	4.0	2.6
3	0.0	9.5	12.3
4	35.3	27.0	23.6
5	47.1	37.3	38.6
6	11.8	22.2	22.2
Not Reported	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	5.9	14.3	9.5
No	94.1	85.7	90.1
Not Reported	0.0	0.0	0.5
Sharing (%)			
Local	88.2	66.7	72.9
Shared	11.8	33.3	27.1
Median Time in Hospital After Transplant*	8.0 Days	8.0 Days	8.0 Days

* Kidney-pancreas transplants only. Other multiple organ transplants are excluded from this statistic.

C. Transplant Information

Table C5DKI. Adult (18+) 1-month survival with a functioning deceased donor kidney graft
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Deaths and retransplants are considered graft failures

	ILUI	U.S.
Number of transplants evaluated	23	1,981
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	98.79%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	98.71%	--
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	0.30	24
Estimated hazard ratio*	0.87	1.00
95% credible interval for the hazard ratio**	[0.11, 2.42]	--

* The hazard ratio provides an estimate of how University of Illinois Medical Center (ILUI)'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 ILUI's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.11, 2.42], indicates the location of ILUI's true hazard ratio with 95% probability. The best estimate is 13% lower risk of kidney graft failure compared to an average program, but ILUI's performance could plausibly range from 89% reduced risk up to 142% increased risk.

Figure C1DKI. Adult (18+) 1-month deceased donor kidney graft failure HR estimate

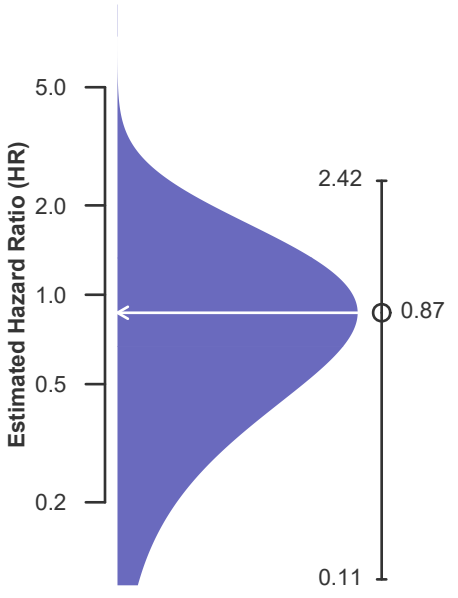
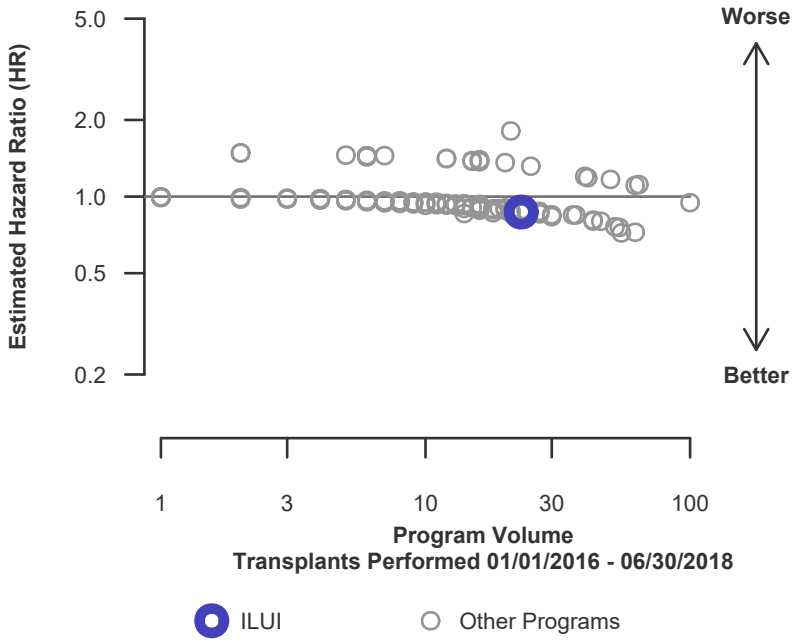


Figure C2DKI. Adult (18+) 1-month deceased donor kidney graft failure HR program comparison



C. Transplant Information

Table C6DKI. Adult (18+) 1-year survival with a functioning deceased donor kidney graft
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Deaths and retransplants are considered graft failures

	ILUI	U.S.
Number of transplants evaluated	23	1,981
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	95.88%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.60%	--
Number of observed graft failures (including deaths) during the first year after transplant	0	76
Number of expected graft failures (including deaths) during the first year after transplant	0.91	76
Estimated hazard ratio*	0.69	1.00
95% credible interval for the hazard ratio**	[0.08, 1.91]	--

* The hazard ratio provides an estimate of how University of Illinois Medical Center (ILUI)'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 ILUI's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.08, 1.91], indicates the location of ILUI's true hazard ratio with 95% probability. The best estimate is 31% lower risk of kidney graft failure compared to an average program, but ILUI's performance could plausibly range from 92% reduced risk up to 91% increased risk.

Figure C3DKI. Adult (18+) 1-year deceased donor kidney graft failure HR estimate

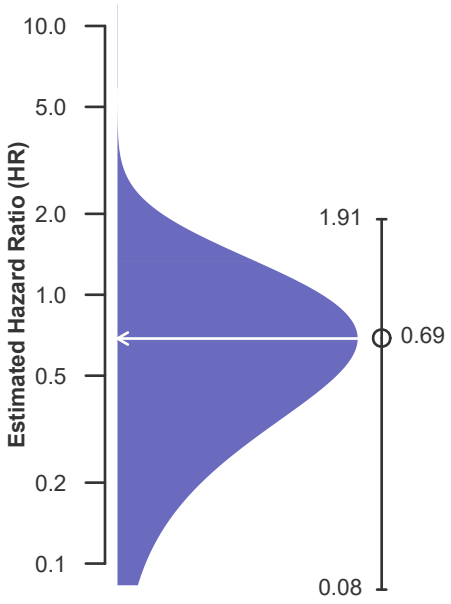
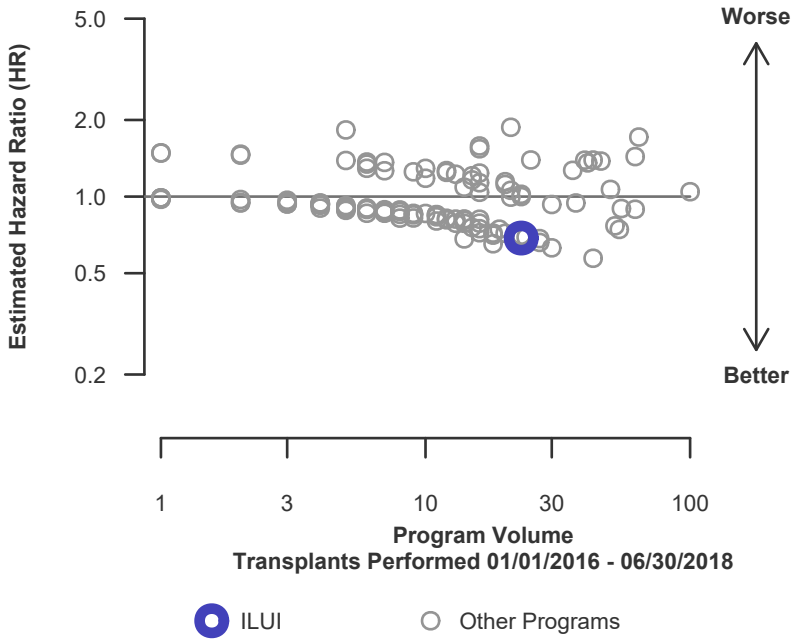


Figure C4DKI. Adult (18+) 1-year deceased donor kidney graft failure HR program comparison



C. Transplant Information

Table C7DKI. Adult (18+) 3-year survival with a functioning deceased donor kidney graft
Simultaneous pancreas-kidney transplants performed between 07/01/2013 and 12/31/2015
Deaths and retransplants are considered graft failures

	ILUI	U.S.
Number of transplants evaluated	19	1,789
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	94.74%	92.01%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	92.57%	--
Number of observed graft failures (including deaths) during the first 3 years after transplant	1	143
Number of expected graft failures (including deaths) during the first 3 years after transplant	1.45	143
Estimated hazard ratio*	0.87	1.00
95% credible interval for the hazard ratio**	[0.18, 2.09]	--

* The hazard ratio provides an estimate of how University of Illinois Medical Center (ILUI)'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 ILUI's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.18, 2.09], indicates the location of ILUI's true hazard ratio with 95% probability. The best estimate is 13% lower risk of kidney graft failure compared to an average program, but ILUI's performance could plausibly range from 82% reduced risk up to 109% increased risk.

Figure C5DKI. Adult (18+) 3-year deceased donor kidney graft failure HR estimate

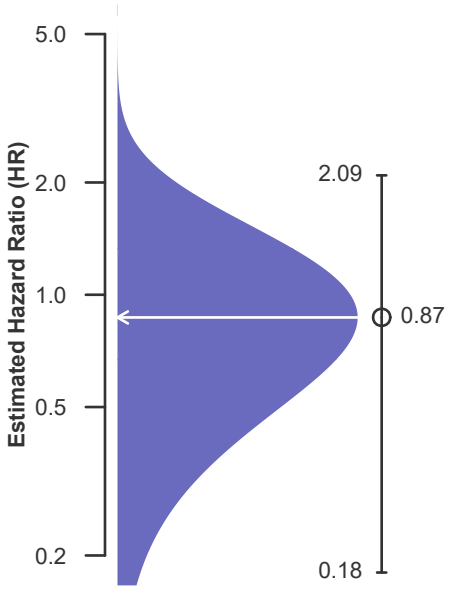
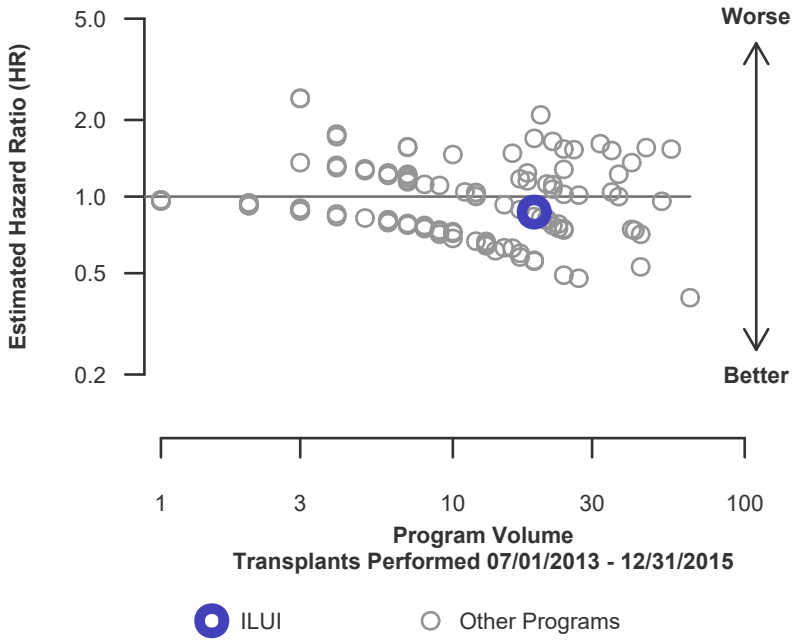


Figure C6DKI. Adult (18+) 3-year deceased donor kidney graft failure HR program comparison



C. Transplant Information

Table C8DKI. Pediatric (<18) 1-month survival with a functioning deceased donor kidney graft
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2016-06/30/2018

Figure C7DKI. Pediatric (<18) 1-month deceased donor kidney graft failure HR estimate

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

Figure C8DKI. Pediatric (<18) 1-month deceased donor kidney graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

C. Transplant Information

Table C9DKI. Pediatric (<18) 1-year survival with a functioning deceased donor kidney graft
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2016-06/30/2018

Figure C9DKI. Pediatric (<18) 1-year deceased donor kidney graft failure HR estimate

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

Figure C10DKI. Pediatric (<18) 1-year deceased donor kidney graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

C. Transplant Information

Table C10DKI. Pediatric (<18) 3-year survival with a functioning deceased donor kidney graft
Simultaneous pancreas-kidney transplants performed between 07/01/2013 and 12/31/2015
Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2013-12/31/2015

Figure C11DKI. Pediatric (<18) 3-year deceased donor kidney graft failure HR estimate

This center did not perform any transplants relevant to this figure during 07/01/2013-12/31/2015

Figure C12DKI. Pediatric (<18) 3-year deceased donor kidney graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2013-12/31/2015

C. Transplant Information

Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients)
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Retransplants excluded

	ILUI	U.S.
Number of transplants evaluated	21	1,955
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	99.49%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	99.40%	--
Number of observed deaths during the first month after transplant	0	10
Number of expected deaths during the first month after transplant	0.13	10
Estimated hazard ratio*	0.94	1.00
95% credible interval for the hazard ratio**	[0.11, 2.62]	--

* The hazard ratio provides an estimate of how University of Illinois Medical Center (ILUI)'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 ILUI's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.11, 2.62], indicates the location of ILUI's true hazard ratio with 95% probability. The best estimate is 6% lower risk of patient death compared to an average program, but ILUI's performance could plausibly range from 89% reduced risk up to 162% increased risk.

Figure C13D. Adult (18+) 1-month patient death HR estimate (deceased donor grafts)

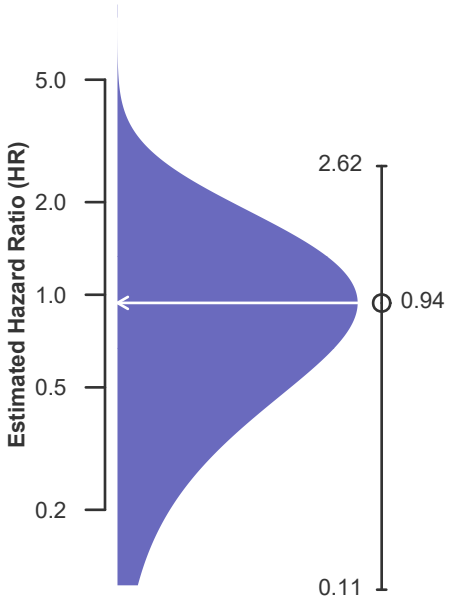
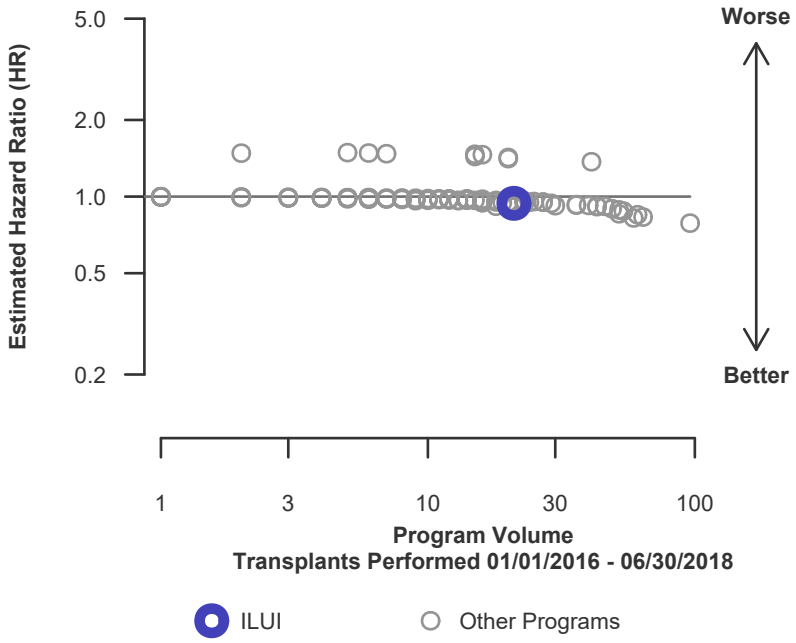


Figure C14D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)



C. Transplant Information

Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Retransplants excluded

	ILUI	U.S.
Number of transplants evaluated	21	1,955
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	97.45%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	97.02%	--
Number of observed deaths during the first year after transplant	0	46
Number of expected deaths during the first year after transplant	0.50	46
Estimated hazard ratio*	0.80	1.00
95% credible interval for the hazard ratio**	[0.10, 2.23]	--

* The hazard ratio provides an estimate of how University of Illinois Medical Center (ILUI)'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 ILUI's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.10, 2.23], indicates the location of ILUI's true hazard ratio with 95% probability. The best estimate is 20% lower risk of patient death compared to an average program, but ILUI's performance could plausibly range from 90% reduced risk up to 123% increased risk.

Figure C15D. Adult (18+) 1-year patient death HR estimate (deceased donor grafts)

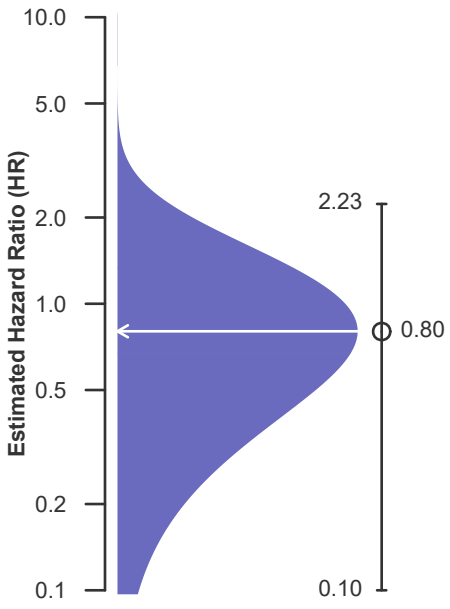
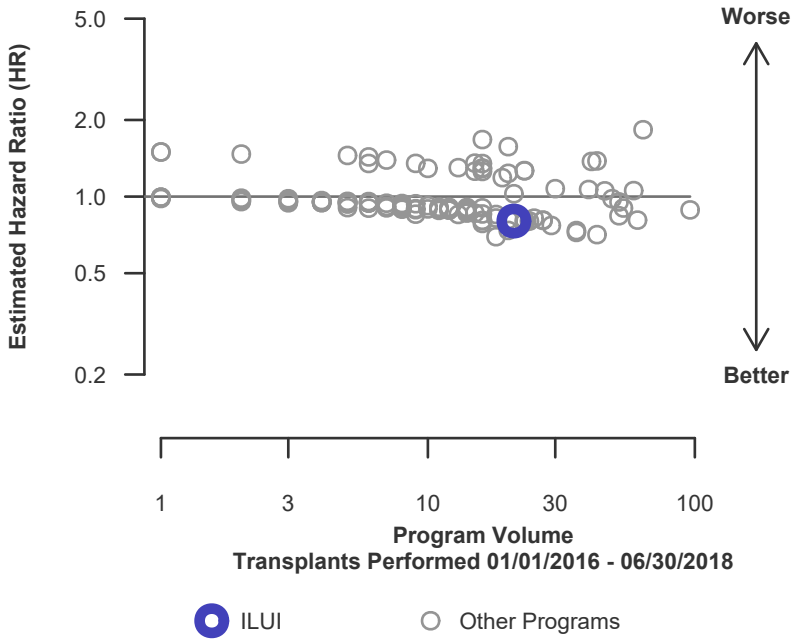


Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)



C. Transplant Information

Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients)
Simultaneous pancreas-kidney transplants performed between 07/01/2013 and 12/31/2015
Retransplants excluded

	ILUI	U.S.
Number of transplants evaluated	19	1,758
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	94.74%	95.62%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	95.38%	--
Number of observed deaths during the first 3 years after transplant	1	77
Number of expected deaths during the first 3 years after transplant	0.90	77
Estimated hazard ratio*	1.04	1.00
95% credible interval for the hazard ratio**	[0.21, 2.50]	--

* The hazard ratio provides an estimate of how University of Illinois Medical Center (ILUI)'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 ILUI's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.
** The 95% credible interval, [0.21, 2.50], indicates the location of ILUI's true hazard ratio with 95% probability. The best estimate is 4% higher risk of patient death compared to an average program, but ILUI's performance could plausibly range from 79% reduced risk up to 150% increased risk.

Figure C17D. Adult (18+) 3-year patient death HR estimate (deceased donor grafts)

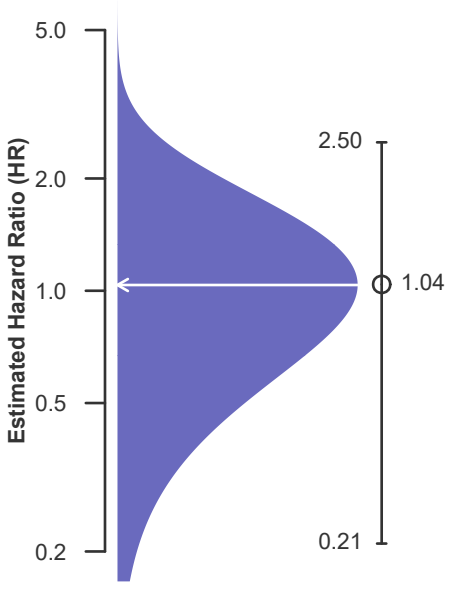
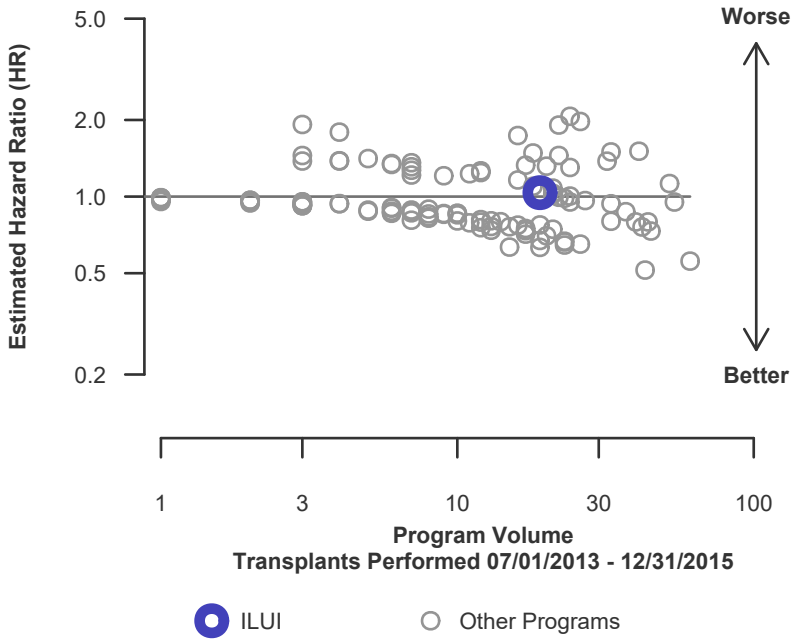


Figure C18D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)



C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2016-06/30/2018

Figure C19D. Pediatric (<18) 1-month patient death HR estimate (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

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

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

C. Transplant Information

Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)
Simultaneous pancreas-kidney transplants performed between 01/01/2016 and 06/30/2018
Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2016-06/30/2018

Figure C21D. Pediatric (<18) 1-year patient death HR estimate (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

Figure C22D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2016-06/30/2018

C. Transplant Information

Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)
Simultaneous pancreas-kidney transplants performed between 07/01/2013 and 12/31/2015
Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2013-12/31/2015

Figure C23D. Pediatric (<18) 3-year patient death HR estimate (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2013-12/31/2015

Figure C24D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2013-12/31/2015