

Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas Release Date: July 8, 2019

Based on Data Available: April 30, 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-pancreas transplant program at University of Minnesota Medical Center, Fairview (MNUM). 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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User Guide

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 21.3 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 4.8 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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User Guide

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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Table of Contents

Section	Page
User Guide	i
A. Program Summary	
Program Summary	1
B. Waiting List Information	
Waiting list activity	2
Demographic characteristics of waiting list candidates	3
Medical characteristics of waiting list candidates	4
Deceased donor transplant rates	5
Waiting list mortality rates	6
Waiting list candidate status after listing	7
Percent of candidates with deceased donor transplants: demographic characteristic	cs 8
Percent of candidates with deceased donor transplants: medical characteristics	9
Time to transplant for waiting list candidates	10
C. Transplant Information	
Deceased donor transplant recipient demographic characteristics	11
Deceased donor transplant recipient medical characteristics	12
Deceased donor characteristics	13
Deceased donor transplant characteristics	14
Deceased donor kidney graft survival	15
Deceased donor patient survival	21



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

A. Program Summary

Figure A1. Waiting list and transplant activity

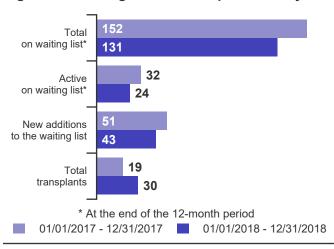


Table A1. Census of transplant recipients

Recipients	01/01/2017- 12/31/2017	01/01/2018- 12/31/2018
Transplanted at this center	19	30
Followed by this center*	298	292
transplanted at this program	n 292	286
transplanted elsewhere	6	6

^{*} 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

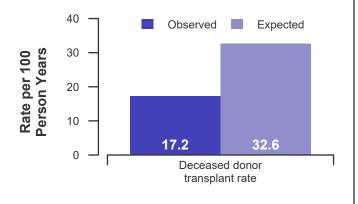


Figure A3. Waiting list mortality rates 01/01/2017 - 12/31/2018



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

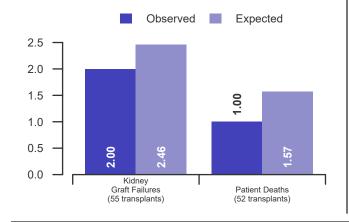


Figure A5. First-year pediatric graft and patient survival: 01/01/2016 - 06/30/2018

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



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B. Waiting List Information

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

		its for center	Activity for 01/01/2018 to 12/31/2018 as percent of registrants on waiting lis			
Waiting List Registrations	01/01/2017- 12/31/2017	01/01/2018- 12/31/2018	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	141	152	100.0	100.0	100.0	
New listings at this center	51	43	28.3	61.0	75.0	
Removals						
Transferred to another center	2	3	2.0	1.3	1.9	
Received living donor transplant*	4	1	0.7	3.5	4.0	
Received deceased donor transplant*	20	30	19.7	40.3	49.9	
Died	8	9	5.9	6.3	6.0	
Transplanted at another center	0	2	1.3	4.1	3.9	
Deteriorated	2	9	5.9	3.5	4.5	
Recovered	0	0	0.0	0.0	0.4	
Other reasons	4	10	6.6	7.0	8.0	
On waiting list at end of period	152	131	86.2	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.



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http://www.srtr.org

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		ting List Regis 018 to 12/31/20			ing List Regist 1 12/31/2018 (%	
	This Center (N=43)	OPTN Region (N=192)	U.S. (N=1,297)	This Center (N=131)	OPTN Region (N=299)	U.S. (N=1,667)
AII (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	69.8	56.2	51.6	75.6	67.9	52.6
African-American	16.3	24.5	28.6	16.8	20.1	28.1
Hispanic/Latino	2.3	10.4	14.8	1.5	6.0	14.9
Asian	0.0	4.2	3.5	2.3	3.3	3.2
Other	11.6	4.7	1.5	3.8	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	20.9	17.7	24.8	11.5	16.1	26.3
35-49 years	41.9	50.0	53.9	44.3	46.8	52.4
50-64 years	34.9	30.7	20.4	42.7	36.1	20.8
65+ years	2.3	1.6	0.6	1.5	1.0	0.4
Other (includes prenatal)	0.0	0.0	0.0	0.0	0.0	0.0
Gender (%)						
Male	44.2	55.2	55.3	57.3	59.2	53.6
Female	55.8	44.8	44.7	42.7	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%.



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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		ting List Regis 018 to 12/31/20			ing List Regist 1 12/31/2018 (%	
medical Characteristic	This Center (N=43)	OPTN Region (N=192)	U.S. (N=1,297)	This Center (N=131)	OPTN Region (N=299)	U.S. (N=1,667)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
0	51.2	53.1	50.0	47.3	52.5	49.0
A	27.9	31.2	32.4	32.8	30.8	29.9
В	14.0	11.5	14.5	13.7	12.0	17.5
AB	7.0	4.2	3.2	6.1	4.7	3.7
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	23.3	10.9	5.2	15.3	12.4	9.1
No	76.7	89.1	94.8	84.7	87.6	90.9
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Initial CPRA (%)						
0-9%	58.1	78.1	79.6	58.8	71.9	74.3
10-79%	23.3	14.1	14.5	26.7	17.7	15.7
80+%	18.6	7.8	5.9	14.5	10.4	10.1
Unknown	0.0	0.0	0.0	0.0	0.0	0.0



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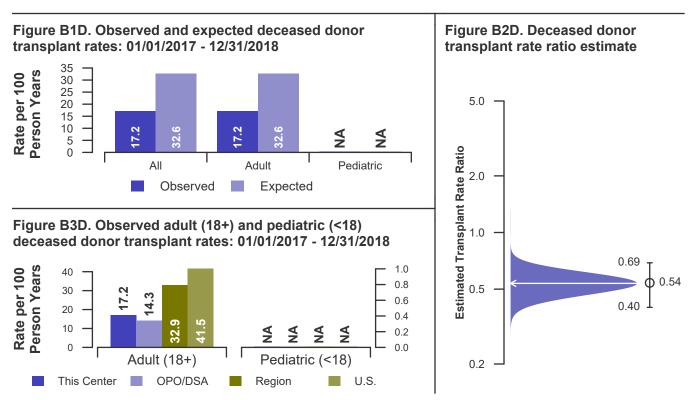
B. Waiting List Information

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*	141	338	493	2,512
Person Years**	291.5	673.8	984.0	4,730.4
Removals for Transplant	50	97	325	1,968
Adult (18+) Candidates				
Count on waiting list at start*	141	338	493	2,507
Person Years**	291.5	673.1	983.1	4,724.7
Removals for transpant	50	96	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.

^{**} 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.



^{*} 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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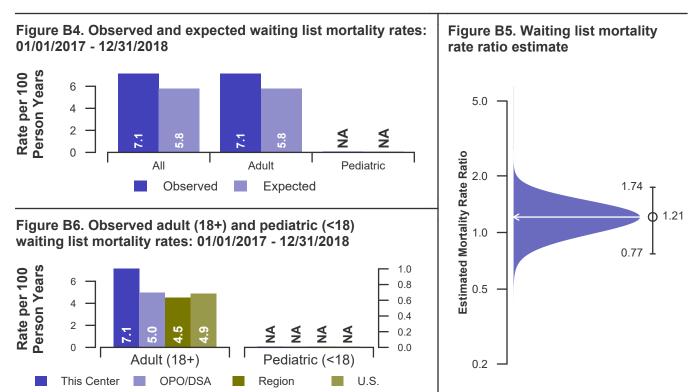
B. Waiting List Information

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*	141	338	493	2,512
Person Years**	308.6	743.3	1,081.7	5,490.8
Number of deaths	22	37	49	269
Adult (18+) Candidates				
Count on waiting list at start*	141	338	493	2,507
Person Years**	308.6	742.6	1,080.8	5,483.4
Number of deaths	22	37	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.

^{**} 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.



^{*} 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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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

Milve on waiting list (%)	Waiting list status (survival status)		Center (N ns Since I 12			S. (N=1,19 ns Since L 12	
Alive on waiting list (%) 94.1 82.4 68.6 59.1 39.5 28.7	Kidney						
Died on the waiting list without transplant (%) 0.0 0.0 0.0 0.0 0.5 1.7 2.5		94.1	82.4	68.6	59.1	39.5	28.7
Condition worsened (status unknown)		0.0	0.0	0.0	0.5	1.7	2.5
Condition improved (status unknown)	Removed without transplant (%):						
Refused transplant (status unknown)		0.0					
Other 0.0 0.0 2.0 0.8 2.5 4.0 Transplant (living or deceased donor) (%): Functioning (alive) Failed-Retransplanted (alive) Failed-Retransplanted (alive) O.0 5.9 15.7 17.6 34.9 47.4 35.8 Failed-Retransplanted (alive) Failed-alive not retransplanted O.0 0.0		0.0					
Transplant (living or deceased donor) (%): Functioning (alive)	Refused transplant (status unknown)						
Functioning (alive) Failed-Retransplanted (alive) Failed-Retransplanted (alive) Failed-alive not retransplanted O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Died O.0 0.0 0.0 0.0 0.0 0.3 0.4 0.3 Died O.0 0.0 0.0 0.0 0.0 0.3 0.5 0.9 Status Yet Unknown* O.0 0.0 0.0 0.0 0.0 0.4 0.8 1.2 TOTAL (%) TOTAL (%) Total % known died on waiting list or after transplant O.0 0.0 0.0 0.0 0.8 2.2 3.4 Total % known died or removed as unstable O.0 0.0 0.0 0.0 0.8 2.2 3.4 Total % known functioning transplant (alive) S.9 17.6 27.5 38.4 53.8 61.0 Pancreas Alive on waiting list (%) Died on the waiting list without transplant (%): Condition worsened (status unknown) O.0 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): Condition improved (status unknown) O.0 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) O.0 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) O.0 0.0 0.0 0.0 0.0 0.1 0.1 Refused transplant (status unknown) O.0 0.0 0.0 0.0 0.0 0.1 0.1 Refused transplant (status unknown) O.0 0.0 0.0 0.0 0.0 0.1 0.1 Refused transplant (status unknown) O.0 0.0 0.0 0.0 0.0 0.1 0.1 Refused transplanted (alive) Finctioning (alive) Finctioning (alive) Failed-Retransplanted (alive) Finctioning (alive)		0.0	0.0	2.0	8.0	2.5	4.0
Failed-Retransplanted (alive)							
Failed-alive not retransplanted 0.0 2.0 0.0 0.3 0.4 0.3 Died 0.0 0.0 0.0 0.0 0.3 0.5 0.9 Status Yet Unknown* 0.0 0.0 0.0 0.0 0.4 0.8 1.2 Lost or Transferred (status unknown) (%) 100.0 100.0 100.0 100.0 100.0 Total % known died on waiting list or after transplant 0.0 0.0 0.0 0.0 100.0 100.0 Total % known died or removed as unstable 0.0 0.0 0.0 0.8 2.2 3.4 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0 Total % with known functioning transplant (alive) 5.9 15.7 17.6 34.9 47.4 35.8 Pancreas Alive on waiting list without transplant (%) 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%) 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%) 0.0 0.0 0.0 0.5 1.7 2.5 Condition improved (status unknown) 0.0 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Transplant (living or deceased donor) (%): Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Failed-Retransplanted (alive) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Status Yet Unknown* 0.0 0.0 0.0 0.0 0.4 0.8 1.2 TOTAL (%) 10.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total % known died on waiting list or after transplant 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total % known died on waiting list or after transplant 0.0							
Died Status Yet Unknown* 0.0 0.0 0.0 0.0 0.3 0.5 23.9 2.9 5.5 23.9 2.9 2.5 23.9 2.5 2.5 23.9 2.5 2.5 23.9 2.5 2.5 23.9 2.5							
Status Yet Unknown*	•						
Lost or Transferred (status unknown) (%) 0.0 0.0 0.0 0.0 0.4 0.8 1.2							
TOTAL (%) 100.0							
Total % known died on waiting list or after transplant	Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	0.8	1.2
Total % known died or removed as unstable 0.0 0.0 2.0 1.6 3.7 5.8 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0 Total % with known functioning transplant (alive) 5.9 15.7 17.6 34.9 47.4 35.8 Pancreas Alive on waiting list (%) 94.1 82.4 68.6 59.1 39.5 28.7 Died on the waiting list without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) 0.0 0.0 0.0 0.0 0.0 0.0	TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % known died or removed as unstable 0.0 0.0 2.0 1.6 3.7 5.8 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0 Total % with known functioning transplant (alive) 5.9 15.7 17.6 34.9 47.4 35.8 Pancreas Alive on waiting list (%) 94.1 82.4 68.6 59.1 39.5 28.7 Died on the waiting list without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) 0.0 0.0 0.0 0.0 0.0 0.0	Total % known died on waiting list or after transplant	0.0	0.0	0.0	0.8	2.2	3.4
Pancreas		0.0	0.0	2.0	1.6	3.7	5.8
Pancreas Alive on waiting list (%) 94.1 82.4 68.6 59.1 39.5 28.7 Died on the waiting list without transplant (%): Condition worsened (status unknown) 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): Condition worsened (status unknown) 0.0 0.0 2.0 0.8 1.5 2.4 Condition improved (status unknown) 0.0 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 Other 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.0 Transplant (living or deceased donor) (%): Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <td>Total % removed for transplant</td> <td>5.9</td> <td>17.6</td> <td>27.5</td> <td>38.4</td> <td>53.8</td> <td>61.0</td>	Total % removed for transplant	5.9	17.6	27.5	38.4	53.8	61.0
Alive on waiting list (%) 94.1 82.4 68.6 59.1 39.5 28.7 Died on the waiting list without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): Condition worsened (status unknown) 0.0 0.0 2.0 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 0.0 0.1 0.1 Other 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 Other 0.0	Total % with known functioning transplant (alive)	5.9	15.7	17.6	34.9	47.4	35.8
Alive on waiting list (%) 94.1 82.4 68.6 59.1 39.5 28.7 Died on the waiting list without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): Condition worsened (status unknown) 0.0 0.0 2.0 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 0.0 0.1 0.1 Other 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 Other 0.0	Pancreas						
Died on the waiting list without transplant (%): 0.0 0.0 0.0 0.5 1.7 2.5 Removed without transplant (%): Condition worsened (status unknown) 0.0 0.0 2.0 0.8 1.5 2.4 Condition improved (status unknown) 0.0 0.0 0.0 0.0 0.1 0.1 0.1 Refused transplant (status unknown) 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 Other 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 Other 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 Transplant (living or deceased donor) (%): 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		94.1	82.4	68.6	59.1	39.5	28.7
Removed without transplant (%): Condition worsened (status unknown) 0.0 0.0 2.0 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 0.1 Other 0.0 0.0 0.0 0.0 0.0 0.1 0.2 Other 0.0 0.0 0.0 0.0 0.8 2.5 4.0 Transplant (living or deceased donor) (%): Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0		0.0	0.0	0.0	0.5	1.7	2.5
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 0.0 0.0 0.1 0.2 Other 0.0 0.0 0.0 0.0 0.8 2.5 4.0 Transplant (living or deceased donor) (%): Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0	Removed without transplant (%):						
Refused transplant (status unknown) 0.0 0.0 0.0 0.0 0.1 0.2 Other 0.0 0.0 0.0 2.0 0.8 2.5 4.0 Transplant (living or deceased donor) (%): Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0	Condition worsened (status unknown)	0.0	0.0	2.0	8.0	1.5	2.4
Other 0.0 0.0 2.0 0.8 2.5 4.0 Transplant (living or deceased donor) (%): Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0 <	Condition improved (status unknown)	0.0	0.0	0.0	0.1	0.1	0.1
Transplant (living or deceased donor) (%): Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0 <t< td=""><td>Refused transplant (status unknown)</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.1</td><td>0.2</td></t<>	Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.1	0.2
Functioning (alive) 5.9 13.7 15.7 30.1 40.2 29.9 Failed-Retransplanted (alive) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2.2 1.8 1.8 0.0 0.0 0.0 0.0 0.3 0.5 0.8 0.8 0.0 0.0 0.0 0.0 0.3 0.5 0.8 0.8 0.0	Other	0.0	0.0	2.0	8.0	2.5	4.0
Failed-Retransplanted (alive) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2.2 1.8 1.8 0.0 0.0 0.0 0.0 0.0 0.3 0.5 0.8 0.8 0.0 0.0 0.0 0.0 0.3 0.5 0.8 0.8 0.5 0.8 0.8 0.0							
Failed-alive not retransplanted 0.0 2.0 0.0 1.2 2.2 1.8 Died 0.0 0.0 0.0 0.0 0.3 0.5 0.8 Status Yet Unknown* 0.0 2.0 11.8 6.7 10.9 28.5 Lost or Transferred (status unknown) (%) 0.0 0.0 0.0 0.4 0.8 1.2 TOTAL (%) 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Total % known died on waiting list or after transplant 0.0 0.0 0.0 0.8 2.2 3.4 Total % known died or removed as unstable 0.0 0.0 2.0 1.6 3.7 5.7 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0							
Died Status Yet Unknown* 0.0 0.0 0.0 0.3 0.5 0.8 Lost or Transferred (status unknown) (%) 0.0 2.0 11.8 6.7 10.9 28.5 Lost or Transferred (status unknown) (%) 0.0 0.0 0.0 0.4 0.8 1.2 TOTAL (%) 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Total % known died on waiting list or after transplant 0.0 0.0 0.0 0.8 2.2 3.4 Total % known died or removed as unstable 0.0 0.0 2.0 1.6 3.7 5.7 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0							
Status Yet Unknown* 0.0 2.0 11.8 6.7 10.9 28.5 Lost or Transferred (status unknown) (%) 0.0 0.0 0.0 0.4 0.8 1.2 TOTAL (%) 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Total % known died on waiting list or after transplant 0.0 0.0 0.0 0.8 2.2 3.4 Total % known died or removed as unstable 0.0 0.0 2.0 1.6 3.7 5.7 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0	· · · · · · · · · · · · · · · · · · ·						
Lost or Transferred (status unknown) (%) 0.0 0.0 0.0 0.4 0.8 1.2 TOTAL (%) 100.0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>							
TOTAL (%) 100.0							
Total % known died on waiting list or after transplant 0.0 0.0 0.0 0.8 2.2 3.4 Total % known died or removed as unstable 0.0 0.0 2.0 1.6 3.7 5.7 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0	Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.4	8.0	1.2
Total % known died or removed as unstable 0.0 0.0 2.0 1.6 3.7 5.7 Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0	TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0
Total % removed for transplant 5.9 17.6 27.5 38.4 53.8 61.0	Total % known died on waiting list or after transplant	0.0	0.0	0.0	0.8	2.2	3.4
	Total % known died or removed as unstable	0.0	0.0	2.0	1.6	3.7	5.7
	Total % removed for transplant						
J / /	Total % with known functioning transplant (alive)	5.9	13.7	15.7	30.1	40.2	29.9

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



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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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

	Percent transplanted at time periods since listing									
Characteristic		Th	nis Cen	ter			Un	ited Sta	ites	
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	148	0.0	8.8	18.2	34.5	3,599	6.2	39.6	52.0	56.9
Ethnicity/Race*										
White	104	0.0	7.7	20.2	35.6	2,071	5.6	39.0	52.1	57.2
African-American	21	0.0	0.0	4.8	19.0	865	6.5	38.2	49.7	54.8
Hispanic/Latino	9	0.0	11.1	11.1	44.4	514	8.8	43.8	55.1	59.7
Asian	9	0.0	33.3	33.3	44.4	111	5.4	46.8	59.5	61.3
Other	5	0.0	20.0	20.0	40.0	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	25	0.0	12.0	16.0	40.0	968	6.2	40.6	54.4	58.8
35-49 years	61	0.0	13.1	19.7	34.4	1,883	6.1	40.1	52.6	57.6
50-64 years	62	0.0	3.2	17.7	32.3	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	89	0.0	9.0	19.1	34.8	2,082	6.5	41.7	54.6	60.0
Female	59	0.0	8.5	16.9	33.9	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%.



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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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 01/01/2013 and 12/31/2015

	Percent transplanted at time periods since listing									
Characteristic			nis Cen					ited Sta		
	N	30 day	1 year	2 years	3 years	N	30 day	1 year	2 years	3 years
All	148	0.0	8.8	18.2	34.5	3,599	6.2	39.6	52.0	56.9
Blood Type										
Ο	60	0.0	3.3	10.0	23.3	1,685	6.8	38.4	51.4	56.0
A	58	0.0	12.1	20.7	44.8	1,303	5.8	41.0	54.0	59.6
В	22	0.0	9.1	22.7	31.8	473	4.0	35.7	44.6	49.3
AB	8	0.0	25.0	50.0	50.0	138	11.6	53.6	65.9	69.6
Previous Transplant										
Yes	19	0.0	10.5	15.8	31.6	286	3.8	19.2	25.5	30.1
No	129	0.0	8.5	18.6	34.9	3,313	6.4	41.3	54.3	59.3
Peak PRA/CPRA										
0-9%	88	0.0	9.1	15.9	31.8	3,011	6.6	41.9	55.1	60.1
10-79%	45	0.0	8.9	26.7	46.7	385	6.0	34.5	44.7	49.9
80+%	15	0.0	6.7	6.7	13.3	203	1.5	14.3	20.7	23.6
Unknown	0					0				
Years Since Diabetes Onset										
0-20	55	0.0	7.3	18.2	32.7	919	6.1	41.5	53.0	58.0
20-30	52	0.0	9.6	19.2	34.6	1,430	6.2	39.2	52.6	57.5
30 +	35	0.0	11.4	17.1	40.0	1,025	5.6	36.6	49.6	55.0
Unknown	6	0.0	0.0	16.7	16.7	225	9.8	47.6	55.6	57.8



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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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 1	Transplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	4.8	3.2	0.6	0.6
10th	8.4	5.6	1.2	1.1
25th	18.7	14.8	4.5	3.6
50th (median time to transplant)	47.0	34.2	15.8	12.3
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 12/31/2018. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787)

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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	287	423	864	5,544
Number of Acceptances	30	37	126	828
Expected Acceptances	22.6	36.9	111.1	824.9
Offer Acceptance Ratio*	1.30	1.00	1.13	1.00
95% Credible Interval**	[0.89, 1.79]			
PHS increased infectious risk				
Number of Offers	63	110	246	1,732
Number of Acceptances	6	7	27	219
Expected Acceptances	3.5	7.6	28.2	218.4
Offer Acceptance Ratio*	1.45	0.94	0.96	1.00
95% Credible Interval**	[0.62, 2.61]			
High risk donor				
Number of Offers	117	143	273	911
Number of Acceptances	4	4	28	61
Expected Acceptances	4.8	6.1	20.8	69.9
Offer Acceptance Ratio*	0.88	0.74	1.31	0.88
95% Credible Interval**	[0.32, 1.71]			
Donor BMI > 28				
Number of Offers	80	108	186	1,102
Number of Acceptances	5	5	13	129
Expected Acceptances	5.4	7.2	16.1	139.2
Offer Acceptance Ratio*	0.95	0.76	0.83	0.93
95% Credible Interval**	[0.38, 1.77]			
Hard-to-Place Donor (Over 10 Offers)				
Number of Offers	201	304	501	2,447
Number of Acceptances	6	6	28	99
Expected Acceptances	7.2	12.7	19.9	99.0
Offer Acceptance Ratio*	0.87	0.55	1.37	1.00
95% Credible Interval**	[0.37, 1.56]			
Donor more than 250 miles away				
Number of Offers	243	325	480	2,499
Number of Acceptances	15	16	34	175
Expected Acceptances	11.4	15.7	21.8	173.4
Offer Acceptance Ratio*	1.27	1.02	1.51	1.01
95% Credible Interval**	[0.74, 1.94]			

^{*} The offer acceptance ratio estimates the relative offer acceptance practice of University of Minnesota Medical Center, Fairview (MNUM) 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, [0.89, 1.79], indicates the location of MNUM's true offer acceptance ratio with 95% probability. The best estimate is 30% more likely to accept an offer compared to national acceptance behavior, but MNUM's performance could plausibly range from 11% reduced acceptance up to 79% higher acceptance.



Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

10

Higher

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B. Waiting List Information

0.4

Figure B7. Offer acceptance: Overall MNUM

National

Average

2.5

Figure B8. Offer acceptance: PHS increased infectious risk

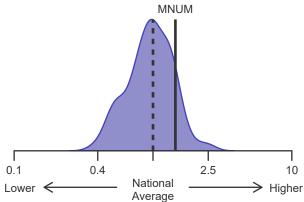


Figure B9. Offer acceptance: High risk donor

0.1

Lower ←

MNUM 0.1 0.4 2.5 10 National Lower ← Higher Average

Figure B10. Offer acceptance: Donor BMI > 28

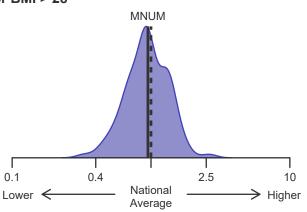
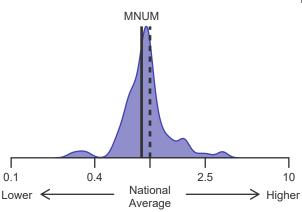
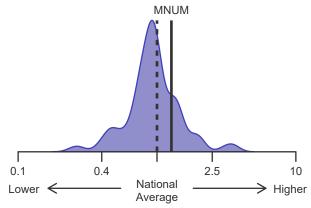


Figure B11. Offer acceptance: Offer number > 10 Figure B12. Offer acceptance:



Donor more than 250 miles away





Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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

C. Transplant Information

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

Characteristic	Perce	Percentage in each category		
	Center (N=30)	Region (N=126)	U.S. (N=835)	
Ethnicity/Race (%)*				
White	70.0	50.8	48.5	
African-American	16.7	27.0	29.9	
Hispanic/Latino	6.7	15.1	16.6	
Asian	3.3	4.0	2.8	
Other	3.3	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	20.0	21.4	21.2	
35-49 years	43.3	49.2	55.6	
50-64 years	36.7	28.6	22.2	
65+ years	0.0	8.0	1.0	
Unknown	0.0	0.0	0.0	
Gender (%)				
Male	73.3	62.7	62.4	
Female	26.7	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%.



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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

C. Transplant Information

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

	Percentage in each category		
Characteristic	Center (N=30)	Region (N=126)	U.S. (N=835)
Blood Type (%)			
0	46.7	46.8	51.7
A	33.3	34.9	33.8
В	20.0	15.9	12.0
AB	0.0	2.4	2.5
Previous Transplant (%)			
Yes	10.0	7.1	3.2
No	90.0	92.9	96.8
Peak PRA/CPRA Prior to Transplant (%)			
0-9%	30.0	63.5	71.5
10-79%	56.7	32.5	24.3
80+ %	13.3	4.0	4.2
Unknown	0.0	0.0	0.0
Body Mass Index (%)			
0-20	3.3	8.7	10.7
21-25	40.0	42.9	45.7
26-30	50.0	36.5	36.4
31+	6.7	11.9	6.3
Unknown	0.0	0.0	0.8



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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

C. Transplant Information

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

	Percentage in each category		
Donor Characteristic	Center (N=30)	Region (N=126)	U.S. (N=835)
Cause of Death (%)			
Deceased: Stroke	13.3	15.9	9.8
Deceased: MVA	26.7	23.0	24.3
Deceased: Other	60.0	61.1	65.9
Ethnicity/Race (%)*			
White	60.0	64.3	61.3
African-American	23.3	20.6	20.2
Hispanic/Latino	16.7	12.7	15.0
Asian	0.0	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	13.3	11.1	3.6
12-17	20.0	12.7	15.9
18-34	56.7	57.9	66.7
35-49 years	10.0	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	70.0	67.5	69.1
Female	30.0	32.5	30.9
Blood Type (%)			
0	46.7	46.8	52.0
A	33.3	36.5	35.2
В	20.0	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%.



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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C. Transplant Information

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

	Percentage in each category		
Transplant Characteristic	Center (N=30)	Region (N=126)	U.S. (N=835)
Cold Ischemic Time (Hours): Local (%)			
Deceased: 0-11 hr	94.1	75.0	79.1
Deceased: 12-21 hr	5.9	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	30.8	14.3	45.6
Deceased: 12-21 hr	69.2	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 (%)	0.0	0.0	0.0
A Locus Mismatches (%)			
0	26.7	12.7	7.5
1	23.3	35.7	42.6
2	50.0	51.6	49.8
Not Reported	0.0	0.0	0.0
B Locus Mismatches (%)	0.0	0.0	0.0
0	0.0	1.6	1.8
1	26.7	22.2	23.7
2	73.3	76.2	
	0.0		74.5
Not Reported	0.0	0.0	0.0
DR Locus Mismatches (%)	10.0	F.C	6.7
0	10.0	5.6	6.7
1	53.3	38.1	38.9
2 Not Boundard	36.7	56.3	54.4
Not Reported	0.0	0.0	0.0
Total Mismatches (%)		2.2	0.5
0	0.0	0.0	0.5
1	0.0	0.0	0.2
2	6.7	4.0	2.6
3	20.0	9.5	12.3
4	33.3	27.0	23.6
5	23.3	37.3	38.6
6	16.7	22.2	22.2
Not Reported	0.0	0.0	0.0
Dialysis in First Week After Transplant (%)			
Yes	20.0	14.3	9.5
No	80.0	85.7	90.1
Not Reported	0.0	0.0	0.5
Sharing (%)			
Local	56.7	66.7	72.9
Shared	43.3	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.

SR REGISTRY OF TRANSPLANT RECIPIENTS

University of Minnesota Medical Center, Fairview

Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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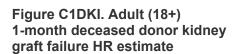
C. Transplant Information

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

Deaths and retransplants are considered graft failures	MNUM	U.S.
Number of transplants evaluated	55	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)	98.60%	
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	0.78	24
Estimated hazard ratio*	0.72	1.00
95% credible interval for the hazard ratio**	[0.09, 2.00]	

^{*} The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview (MNUM)'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.09, 2.00], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 28% lower risk of kidney graft failure compared to an average program, but MNUM's performance could plausibly range from 91% reduced risk up to 100% increased risk.



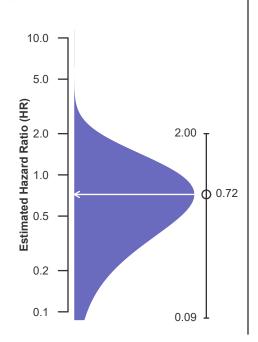
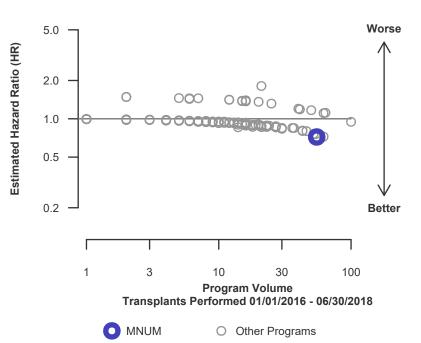


Figure C2DKI. Adult (18+) 1-month deceased donor kidney graft failure HR program comparison



SR REGISTRY OF TRANSPLANT RECIPIENTS

University of Minnesota Medical Center, Fairview

Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

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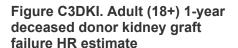
C. Transplant Information

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

Deaths and retransplants are considered grant failules	MNUM	U.S.
Number of transplants evaluated	55	1,981
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	95.90%	95.88%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	95.25%	
Number of observed graft failures (including deaths) during the first year after transplant	2	76
Number of expected graft failures (including deaths) during the first year after transplant	2.46	76
Estimated hazard ratio*	0.90	1.00
95% credible interval for the hazard ratio**	[0.24, 1.97]	

^{*} The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview (MNUM)'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.24, 1.97], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 10% lower risk of kidney graft failure compared to an average program, but MNUM's performance could plausibly range from 76% reduced risk up to 97% increased risk.



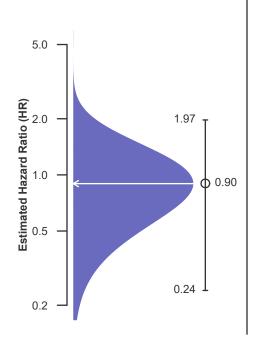
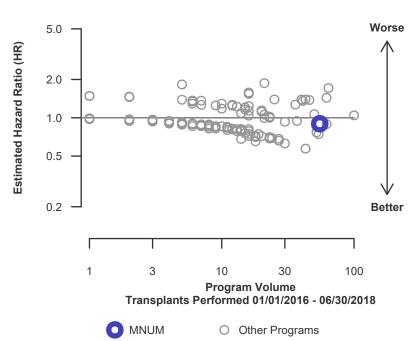


Figure C4DKI. Adult (18+) 1-year deceased donor kidney graft failure HR program comparison





Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

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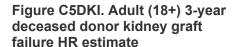
C. Transplant Information

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

Deaths and retransplants are considered graft failures	MNUM	U.S.
Number of transplants evaluated	37	1,789
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	91.89%	92.01%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	91.98%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	3	143
Number of expected graft failures (including deaths) during the first 3 years after transplant	3.00	143
Estimated hazard ratio*	1.00	1.00
95% credible interval for the hazard ratio**	[0.32, 2.05]	

^{*} The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview (MNUM)'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 MNUM's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.32, 2.05], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 0% lower risk of kidney graft failure compared to an average program, but MNUM's performance could plausibly range from 68% reduced risk up to 105% increased risk.



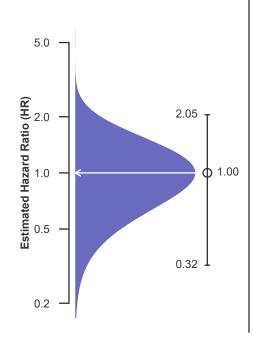
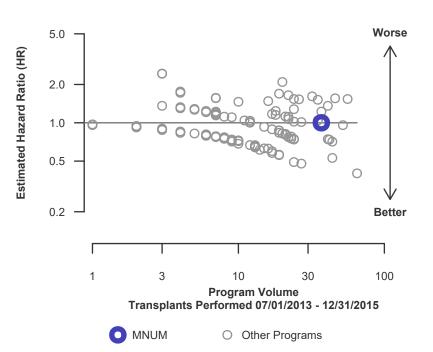


Figure C6DKI. Adult (18+) 3-year deceased donor kidney graft failure HR program comparison





Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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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

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

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



Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

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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 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

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



Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

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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

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

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



Center Code: MNUM

Transplant Program (Organ): Kidney-Pancreas Release Date: July 8, 2019

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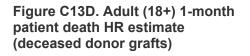
C. Transplant Information

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

Retransplants excluded	MNUM	U.S.
Number of transplants evaluated	52	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)	99.35%	
Number of observed deaths during the first month after transplant	0	10
Number of expected deaths during the first month after transplant	0.34	10
Estimated hazard ratio*	0.86	1.00
95% credible interval for the hazard ratio**	[0.10, 2.38]	

^{*} The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview (MNUM)'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.10, 2.38], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 14% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 90% reduced risk up to 138% increased risk.



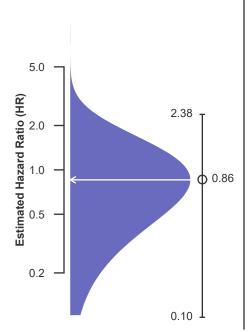
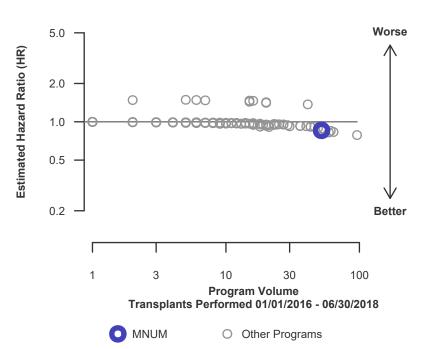


Figure C14D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

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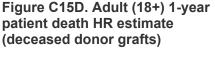
C. Transplant Information

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

Retransplants excluded	MNUM	U.S.
Number of transplants evaluated	52	1,955
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	97.56%	97.45%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	96.78%	
Number of observed deaths during the first year after transplant	1	46
Number of expected deaths during the first year after transplant	1.57	46
Estimated hazard ratio*	0.84	1.00
95% credible interval for the hazard ratio**	[0.17, 2.02]	

^{*} The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview (MNUM)'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 MNUM's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

^{**} The 95% credible interval, [0.17, 2.02], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 16% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 83% reduced risk up to 102% increased risk.



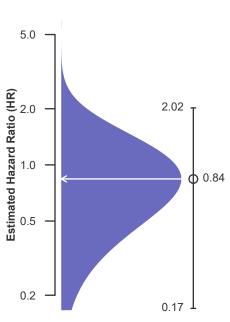
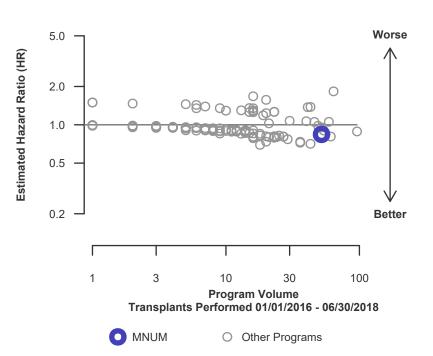


Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

Based on Data Available: April 30, 2019

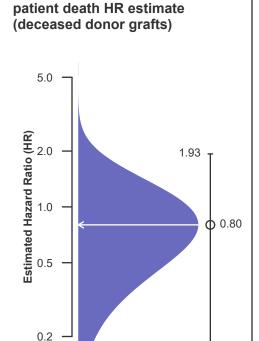
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C. Transplant Information

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

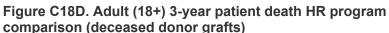
Retransplants excluded	MNUM	U.S.
Number of transplants evaluated	33	1,758
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	96.97%	95.62%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	94.81%	
Number of observed deaths during the first 3 years after transplant	1	77
Number of expected deaths during the first 3 years after transplant	1.75	77
Estimated hazard ratio*	0.80	1.00
95% credible interval for the hazard ratio**	[0.16, 1.93]	

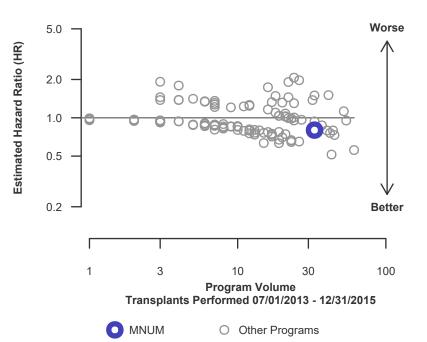
^{*} The hazard ratio provides an estimate of how University of Minnesota Medical Center, Fairview (MNUM)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio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



0.16

Figure C17D. Adult (18+) 3-year





^{**} The 95% credible interval, [0.16, 1.93], indicates the location of MNUM's true hazard ratio with 95% probability. The best estimate is 20% lower risk of patient death compared to an average program, but MNUM's performance could plausibly range from 84% reduced risk up to 93% increased risk.



Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

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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)

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

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



Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

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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)

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

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



Center Code: MNUM Transplant Program (Organ): Kidney-Pancreas

Release Date: July 8, 2019

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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)

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

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