

REGISTRY OFCenter Code: OHCCTRANSPLANTTransplant Program (Organ): Intestine<br/>Release Date: August 4, 2020RECIPIENTSBased on Data Available: May 31, 2020

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### User Guide

This report contains a wide range of useful information about the intestine transplant program at The Cleveland Clinic Foundation (OHCC). 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 72.8 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 this table and figures is to describe risk of death once candidates are listed rather than while they are listed, but before they are transplanted. Therefore, time at risk and deaths after removal from the waiting list for reasons other than transplant, transfer to another transplant program, or recovery (no longer needing a transplant), and before any subsequent transplant, are included. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B5. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

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

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2014 and 06/30/2019. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.2 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2019 to calculate a particular percentile of transplant times.

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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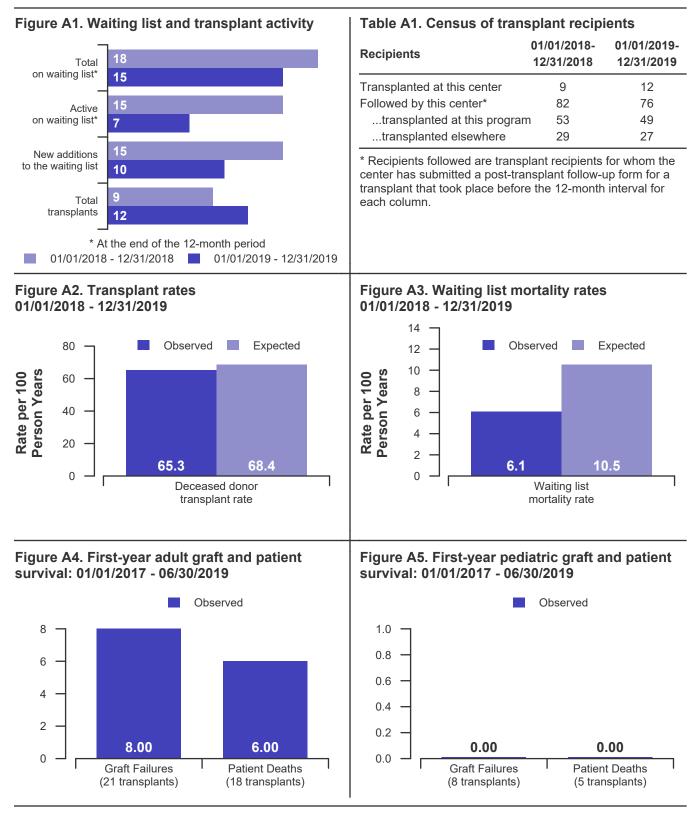
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#### A. Program Summary





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

#### Table B1. Waiting list activity summary: 01/01/2018 - 12/31/2019

		ts for enter	Activity for 01/01/2019 to 12/31/20 as percent of registrants on waiting on 01/01/2019			
Waiting List Registrations	01/01/2018- 12/31/2018	01/01/2019- 12/31/2019	This Center (%)	OPTN Region (%)	U.S. (%)	
On waiting list at start Additions	14	18	100.0	100.0	100.0	
New listings at this center	15	10	55.6	81.8	41.9	
Removals						
Transferred to another center	0	0	0.0	0.0	0.8	
Received living donor transplant*	0	0	0.0	0.0	0.0	
Received deceased donor transplant*	9	12	66.7	63.6	32.9	
Died	2	0	0.0	0.0	5.7	
Transplanted at another center	0	0	0.0	3.0	0.8	
Deteriorated	0	0	0.0	6.1	2.0	
Recovered	0	0	0.0	6.1	5.3	
Other reasons	0	1	5.6	3.0	2.4	
On waiting list at end of period	18	15	83.3	100.0	91.9	

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

## Table B2. Demographic characteristics of waiting list candidates Candidates registered on the waiting list between 01/01/2019 and 12/31/2019

Demographic Characteristic		ting List Regis 019 to 12/31/2			ng List Regis 12/31/2019 (9	
	This Center (N=10)	OPTN Region (N=27)	U.S. (N=103)	This Center (N=15)	OPTN Region (N=33)	U.S. (N=226)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Ethnicity/Race (%)*						
White	90.0	81.5	60.2	100.0	84.8	58.4
African-American	10.0	14.8	17.5	0.0	15.2	20.4
Hispanic/Latino	0.0	3.7	16.5	0.0	0.0	15.5
Asian	0.0	0.0	4.9	0.0	0.0	4.0
Other	0.0	0.0	1.0	0.0	0.0	1.8
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Age (%)						
<2 years	10.0	3.7	9.7	0.0	6.1	30.5
2-11 years	20.0	18.5	25.2	13.3	27.3	33.2
12-17 years	0.0	0.0	5.8	0.0	0.0	4.9
18-34 years	40.0	22.2	19.4	60.0	30.3	12.8
35-49 years	20.0	25.9	19.4	20.0	21.2	11.5
50-64 years	10.0	25.9	17.5	6.7	15.2	6.6
65-69 years	0.0	3.7	2.9	0.0	0.0	0.4
70+ years	0.0	0.0	0.0	0.0	0.0	0.0
Gender (%)						
Male	50.0	40.7	54.4	46.7	42.4	53.1
Female	50.0	59.3	45.6	53.3	57.6	46.9

\* 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 candidatesCandidates registered on the waiting list between 01/01/2019 and 12/31/2019

Medical Characteristic		ting List Regis 019 to 12/31/20			ng List Regist 12/31/2019 (%	
	This Center (N=10)	OPTN Region (N=27)	U.S. (N=103)	This Center (N=15)	OPTN Region (N=33)	U.S. (N=226)
All (%)	100.0	100.0	100.0	100.0	100.0	100.0
Blood Type (%)						
0	40.0	44.4	44.7	40.0	48.5	48.7
A	40.0	33.3	35.0	26.7	33.3	33.6
В	20.0	18.5	15.5	33.3	18.2	15.0
AB	0.0	3.7	4.9	0.0	0.0	2.7
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Previous Transplant (%)						
Yes	20.0	22.2	17.5	6.7	9.1	11.5
Νο	80.0	77.8	82.5	93.3	90.9	88.5
Unknown	0.0	0.0	0.0	0.0	0.0	0.0
Primary Disease (%)*						
Short Gut Syndrome	60.0	48.1	60.2	53.3	57.6	58.0
Functional Bowel Problem	0.0	11.1	8.7	6.7	9.1	19.9
Other	30.0	33.3	29.1	40.0	33.3	22.1
Missing*	10.0	7.4	1.9	0.0	0.0	0.0

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



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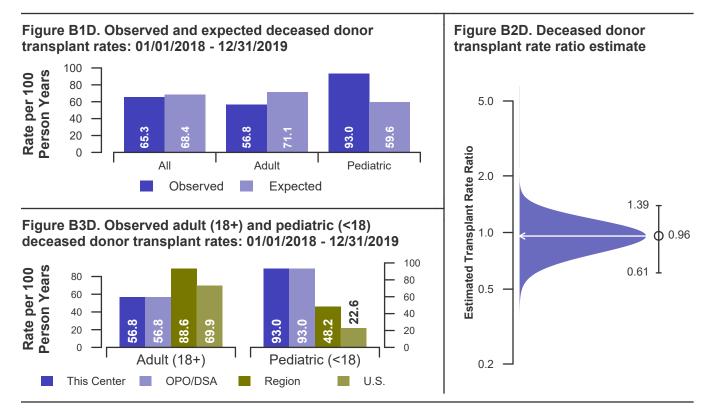
### **B. Waiting List Information**

#### Table B4D. Deceased donor transplant rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	14	14	29	259
Person Years**	32.2	32.2	61.9	483.0
Removals for Transplant	21	21	44	185
Adult (18+) Candidates				
Count on waiting list at start*	9	9	14	91
Person Years**	24.6	24.6	35.0	160.2
Removals for transpant	14	14	31	112
Pediatric (<18) Candidates				
Count on waiting list at start*	5	5	15	168
Person Years**	7.5	7.5	26.9	322.8
Removals for transplant	7	7	13	73

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

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





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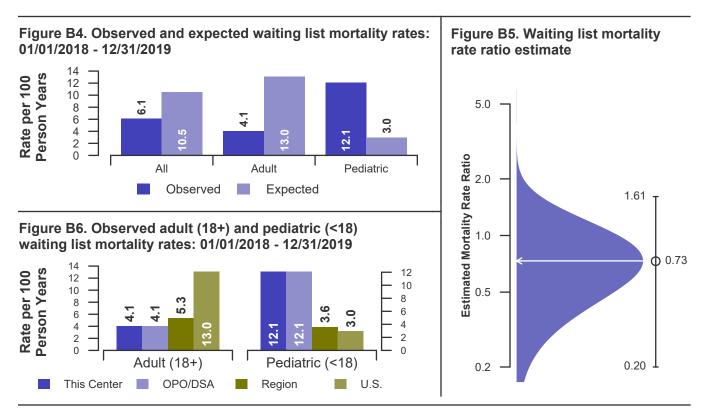
### **B. Waiting List Information**

#### Table B5. Waiting list mortality rates: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	14	14	29	259
Person Years**	32.9	32.9	65.3	515.2
Number of deaths	2	2	3	33
Adult (18+) Candidates				
Count on waiting list at start*	9	9	14	91
Person Years**	24.6	24.6	37.4	176.3
Number of deaths	1	1	2	23
Pediatric (<18) Candidates				
Count on waiting list at start*	5	5	15	168
Person Years**	8.3	8.3	27.9	338.8
Number of deaths	1	1	1	10

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

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





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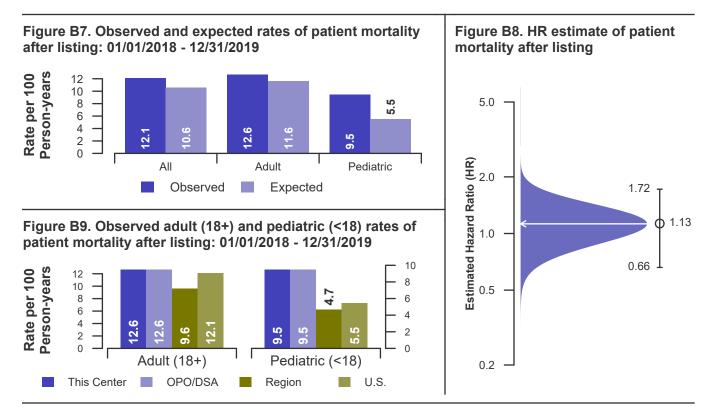
### **B. Waiting List Information**

#### Table B6. Rates of patient mortality after listing: 01/01/2018 - 12/31/2019

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Patients				
Count at risk during the evaluation period	87	87	200	881
Person-years*	124.1	124.1	282.8	1,221.3
Number of Deaths	15	15	24	110
Adult (18+) Patients				
Count at risk during the evaluation period	72	72	157	478
Person-years*	103.0	103.0	218.7	654.5
Number of Deaths	13	13	21	79
Pediatric (<18) Patients				
Count at risk during the evaluation period	15	15	43	403
Person-years*	21.2	21.2	64.2	566.8
Number of Deaths	2	2	3	31

\* Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2018, or from the date of first wait listing until death, reaching 5 years after listing or December 31, 2019.

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



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

### Table B7. Waiting list candidate status after listingCandidates registered on waiting list between 07/01/2017 and 06/30/2018

Waiting list status (survival status)		Center (N ns Since L	,		U.S. (N=149) Months Since Listing			
	6	12	18	6	12	18		
Alive on waiting list (%)	52.9	41.2	41.2	44.3	28.9	24.2		
Died on the waiting list without transplant (%)	5.9	5.9	5.9	4.0	5.4	7.4		
Removed without transplant (%):								
Condition worsened (status unknown)	0.0	0.0	0.0	1.3	2.0	2.7		
Condition improved (status unknown)	0.0	0.0	0.0	1.3	2.7	4.0		
Refused transplant (status unknown)	0.0	0.0	0.0	0.0	0.0	0.0		
Other	0.0	0.0	0.0	1.3	2.0	2.0		
Transplant (living or deceased donor) (%):								
Functioning (alive)	23.5	35.3	23.5	37.6	43.0	33.6		
Failed-Retransplanted (alive)	0.0	0.0	5.9	0.7	0.7	1.3		
Failed-alive not retransplanted	0.0	0.0	0.0	0.0	0.0	0.0		
Died	17.6	17.6	23.5	6.7	11.4	12.8		
Status Yet Unknown*	0.0	0.0	0.0	2.0	3.4	11.4		
Lost or Transferred (status unknown) (%)	0.0	0.0	0.0	0.7	0.7	0.7		
TOTAL (%)	100.0	100.0	100.0	100.0	100.0	100.0		
Total % known died on waiting list or after transplant	23.5	23.5	29.4	10.7	16.8	20.1		
Total % known died or removed as unstable	23.5	23.5	29.4	12.1	18.8	22.8		
Total % removed for transplant	41.2	52.9	52.9	47.0	58.4	59.1		
Total % with known functioning transplant (alive)	23.5	35.3	23.5	37.6	43.0	33.6		

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



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

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2014 and 12/31/2016

Characteristic			ercent t his Cent	-	nted at ti	me pe		nce listi ited Sta	-	
	Ν				3 years	Ν				3 years
All	72	29.2	69.4	80.6	83.3	611	15.2	57.9	64.5	66.1
Ethnicity/Race*										
White	66	27.3	68.2	80.3	83.3	383	17.8	59.5	67.1	68.4
African-American	2	100.0	100.0	100.0	100.0	100	8.0	58.0	61.0	61.0
Hispanic/Latino	3	0.0	66.7	66.7	66.7	96	11.5	56.2	62.5	65.6
Asian	1	100.0	100.0	100.0	100.0	23	21.7	47.8	47.8	52.2
Other	0					9	11.1	33.3	55.6	66.7
Unknown	0					0				
Age										
<2 years	3	0.0	66.7	66.7	66.7	106	11.3	44.3	48.1	50.9
2-11 years	6	33.3	66.7	83.3	83.3	138	11.6	55.8	63.0	63.0
12-17 years	3	33.3	33.3	33.3	33.3	30	10.0	40.0	53.3	56.7
18-34 years	19	36.8	73.7	84.2	89.5	100	21.0	70.0	74.0	75.0
35-49 years	17	35.3	70.6	88.2	94.1	110	16.4	66.4	74.5	78.2
50-64 years	21	19.0	71.4	81.0	81.0	121	18.2	59.5	66.9	67.8
65-69 years	3	33.3	66.7	66.7	66.7	6	16.7	50.0	50.0	50.0
70+ years	0					0				
Gender										
Male	27	18.5	59.3	70.4	70.4	320	13.4	56.6	64.1	65.6
Female	45	35.6	75.6	86.7	91.1	291	17.2	59.5	64.9	66.7

\* 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%.



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

 Table B9. Percent of candidates with deceased donor transplants: medical characteristics

 Candidates registered on the waiting list between 01/01/2014 and 12/31/2016

Characteristic			Percent transplanted at time periods since listing This Center United States							
	Ν	30 day	1 year	2 years	3 years	Ν	30 day	1 year	2 years	3 years
All	72	29.2	69.4	80.6	83.3	611	15.2	57.9	64.5	66.1
Blood Type										
0	22	54.5	72.7	86.4	90.9	294	15.0	57.5	65.6	67.0
A	32	15.6	71.9	81.2	81.2	211	15.2	57.8	64.0	65.9
В	15	20.0	66.7	80.0	80.0	80	15.0	61.2	63.8	65.0
AB	3	33.3	33.3	33.3	66.7	26	19.2	53.8	57.7	61.5
Previous Transplant										
Yes	11	27.3	54.5	81.8	81.8	96	14.6	65.6	71.9	74.0
No	61	29.5	72.1	80.3	83.6	515	15.3	56.5	63.1	64.7
Primary Disease*										
Short Gut Syndrome	36	13.9	66.7	80.6	80.6	375	14.4	61.9	68.3	69.9
Functional Bowel Problem	1	100.0	100.0	100.0	100.0	67	7.5	35.8	49.3	50.7
Other	35	42.9	71.4	80.0	85.7	168	20.2	57.7	61.9	63.7
Missing*	0					1	0.0	100.0	100.0	100.0

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



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

## Table B10. Time to transplant for waiting list candidates\*Candidates registered on the waiting list between 01/01/2014 and 06/30/2019

		Months to T	ransplant**	
Percentile	Center	OPO/DSA	Region	U.S.
5th	0.2	0.2	0.2	0.3
10th	0.3	0.3	0.4	0.6
25th	1.2	1.2	1.2	1.8
50th (median time to transplant)	4.9	4.9	5.0	6.7
75th	18.8	18.8	31.8	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 12/31/2019. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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#### **C. Transplant Information**

#### Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2019 and 12/31/2019

	Percer	ntage in each ca	ategory
Characteristic	Center (N=12)	Region (N=21)	U.S. (N=81)
Ethnicity/Race (%)*			
White	83.3	81.0	65.4
African-American	16.7	14.3	21.0
Hispanic/Latino	0.0	4.8	11.1
Asian	0.0	0.0	1.2
Other	0.0	0.0	1.2
Unknown	0.0	0.0	0.0
Age (%)			
<2 years	8.3	9.5	9.9
2-11 years	16.7	14.3	22.2
12-17	8.3	4.8	7.4
18-34	33.3	23.8	27.2
35-49 years	16.7	19.0	13.6
50-64 years	16.7	23.8	16.0
65-69 years	0.0	4.8	3.7
70+ years	0.0	0.0	0.0
Gender (%)			
Male	75.0	61.9	51.9
Female	25.0	38.1	48.1

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



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#### **C. Transplant Information**

## Table C2D. Deceased donor transplant recipient medical characteristicsPatients transplanted between 01/01/2019 and 12/31/2019

	Percentage in each category		
Characteristic	Center (N=12)	Region (N=21)	U.S. (N=81)
Blood Type (%)			
0	41.7	42.9	44.4
A	33.3	38.1	37.0
В	25.0	19.0	14.8
AB	0.0	0.0	3.7
Previous Transplant (%)			
Yes	33.3	23.8	19.8
No	66.7	76.2	80.2
Body Mass Index (%)			
0-20	33.3	47.6	48.1
21-25	50.0	33.3	25.9
26-30	8.3	9.5	12.3
31-35	8.3	9.5	6.2
36-40	0.0	0.0	3.7
41+	0.0	0.0	2.5
Unknown	0.0	0.0	1.2
Primary Disease (%)*			
Short Gut Syndrome	83.3	71.4	58.0
Functional Bowel Problem	0.0	4.8	18.5
Other	8.3	19.0	22.2
Missing*	8.3	4.8	1.2
Recipient Medical Condition at Transplant (%)			
Not Hospitalized	91.7	76.2	80.2
Hospitalized	0.0	9.5	11.1
ICU	8.3	14.3	8.6
Unknown	0.0	0.0	0.0

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



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#### **C. Transplant Information**

## Table C3D. Deceased donor characteristicsTransplants performed between 01/01/2019 and 12/31/2019

	Percei	Percentage in each category		
Donor Characteristic	Center (N=12)	Region (N=21)	U.S. (N=81)	
Cause of Death (%)				
Deceased: Stroke	16.7	9.5	13.6	
Deceased: MVA	33.3	28.6	21.0	
Deceased: Other	50.0	61.9	65.4	
Ethnicity/Race (%)*				
White	75.0	71.4	61.7	
African-American	16.7	19.0	17.3	
Hispanic/Latino	8.3	4.8	14.8	
Asian	0.0	4.8	2.5	
Other	0.0	0.0	3.7	
Not Reported	0.0	0.0	0.0	
Age (%)				
<2 years	0.0	9.5	17.3	
2-11 years	25.0	19.0	33.3	
12-17	8.3	14.3	11.1	
18-34	50.0	42.9	30.9	
35-49 years	16.7	14.3	7.4	
50-64 years	0.0	0.0	0.0	
65-69 years	0.0	0.0	0.0	
70+ years	0.0	0.0	0.0	
Gender (%)				
Male	58.3	52.4	59.3	
Female	41.7	47.6	40.7	
Blood Type (%)				
0	41.7	42.9	51.9	
A	33.3	38.1	38.3	
В	25.0	19.0	9.9	
AB	0.0	0.0	0.0	
Unknown	0.0	0.0	0.0	

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



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#### **C. Transplant Information**

## Table C4D. Deceased donor transplant characteristicsTransplants performed between 01/01/2019 and 12/31/2019

	Percer	Percentage in each category		
Transplant Characteristic	Center (N=12)	Region (N=21)	U.S. (N=81)	
Total Ischemic Time (Hours): Local (%)				
Deceased: 0-5 hr	0.0	0.0	28.6	
Deceased: 6-10 hr	100.0	100.0	71.4	
Deceased: 11-15 hr	0.0	0.0	0.0	
Deceased: 16-20 hr	0.0	0.0	0.0	
Deceased: 21+ hr	0.0	0.0	0.0	
Not Reported	0.0	0.0	0.0	
Total Ischemic Time (Hours): Shared (%)				
Deceased: 0-5 hr	0.0	17.6	16.2	
Deceased: 6-10 hr	100.0	76.5	77.0	
Deceased: 11-15 hr	0.0	5.9	6.8	
Deceased: 16-20 hr	0.0	0.0	0.0	
Deceased: 21+ hr	0.0	0.0	0.0	
Not Reported	0.0	0.0	0.0	
Procedure Type (%)				
Intestine alone	16.7	23.8	40.7	
Intestine and another organ	83.3	76.2	59.3	
Sharing (%)				
Local	25.0	19.0	8.6	
Shared	75.0	81.0	91.4	
Median Time in Hospital After Transplant*	43.5 Days	43.0 Days	44.0 Days	

\* Multiple organ transplants are excluded from this statistic.



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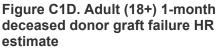
### C. Transplant Information

# Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graftIntestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failuresOHCC

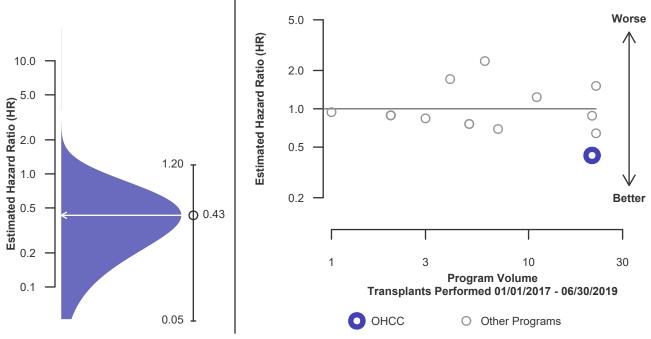
	OHCC	U.S.
Number of transplants evaluated	21	134
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	88.06%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	88.15%	
Number of observed graft failures (including deaths) during the first month after transplant	0	16
Number of expected graft failures (including deaths) during the first month after transplant	2.65	
Estimated hazard ratio*	0.43	
95% credible interval for the hazard ratio**	[0.05, 1.20]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.05, 1.20], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 57% lower risk of graft failure compared to an average program. but OHCC's performance could plausibly range from 95%



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





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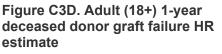
### **C. Transplant Information**

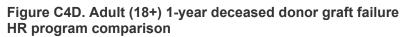
# Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graftIntestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failuresOHCC

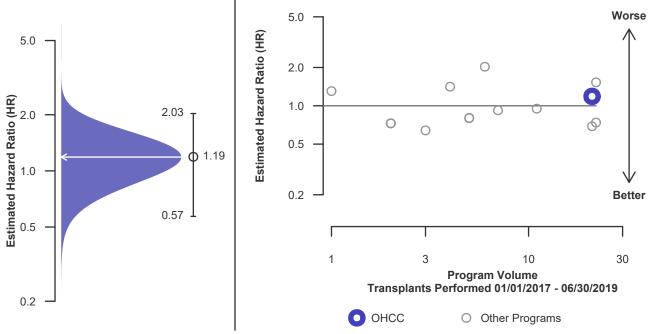
	OHCC	U.S.
Number of transplants evaluated	21	134
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	61.90%	68.67%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	68.83%	
Number of observed graft failures (including deaths) during the first year after transplant	8	41
Number of expected graft failures (including deaths) during the first year after transplant	6.43	
Estimated hazard ratio*	1.19	
95% credible interval for the hazard ratio**	[0.57, 2.03]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.57, 2.03], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 19% higher risk of graft failure compared to an average program. but OHCC's performance could plausibly range from 43%









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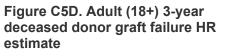
### **C. Transplant Information**

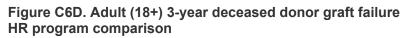
# Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graftIntestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failuresOHCC

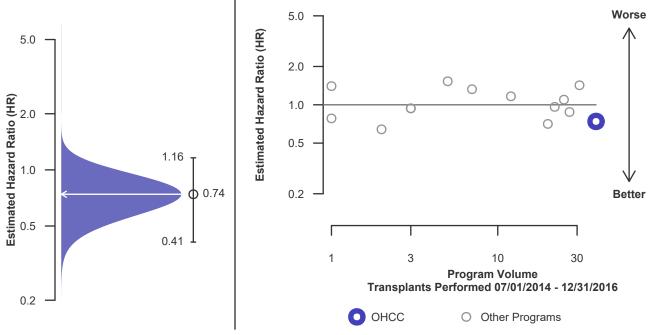
	OHCC	U.S.
Number of transplants evaluated	39	198
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	66.67%	57.07%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	57.20%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	13	85
Number of expected graft failures (including deaths) during the first 3 years after transplant	18.27	
Estimated hazard ratio*	0.74	
95% credible interval for the hazard ratio**	[0.41, 1.16]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.41, 1.16], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 26% lower risk of graft failure compared to an average program. but OHCC's performance could plausibly range from 59%









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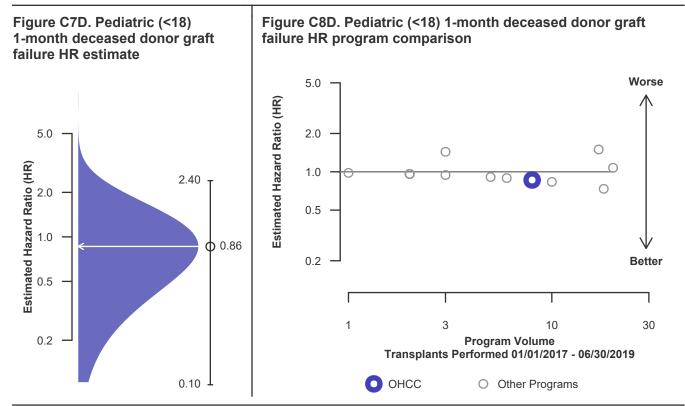
### **C. Transplant Information**

# Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft</th>Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failuresOHCC

	OHCC	U.S.
Number of transplants evaluated	8	101
Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.04%
Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)	96.07%	
Number of observed graft failures (including deaths) during the first month after transplant	0	4
Number of expected graft failures (including deaths) during the first month after transplant	0.32	
Estimated hazard ratio*	0.86	
95% credible interval for the hazard ratio**	[0.10, 2.40]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



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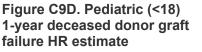
### **C. Transplant Information**

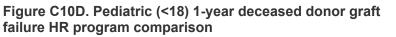
# Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft</th>Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 01/01/2017 and 06/30/2019Deaths and retransplants are considered graft failuresOHCC

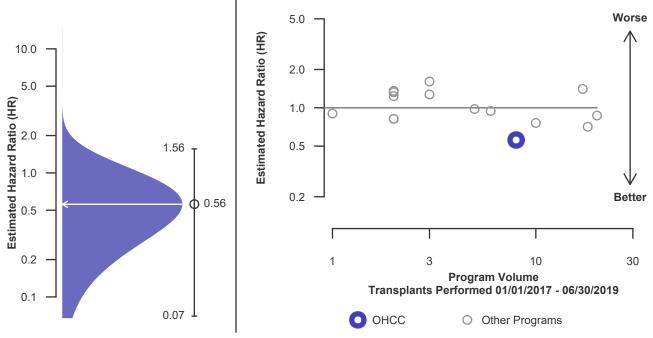
	OHCC	U.S.
Number of transplants evaluated	8	101
Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics)	100.00%	80.00%
Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)	80.12%	
Number of observed graft failures (including deaths) during the first year after transplant	0	19
Number of expected graft failures (including deaths) during the first year after transplant	1.58	
Estimated hazard ratio*	0.56	
95% credible interval for the hazard ratio**	[0.07, 1.56]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.07, 1.56], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 44% lower risk of graft failure compared to an average program. but OHCC's performance could plausibly range from 93%









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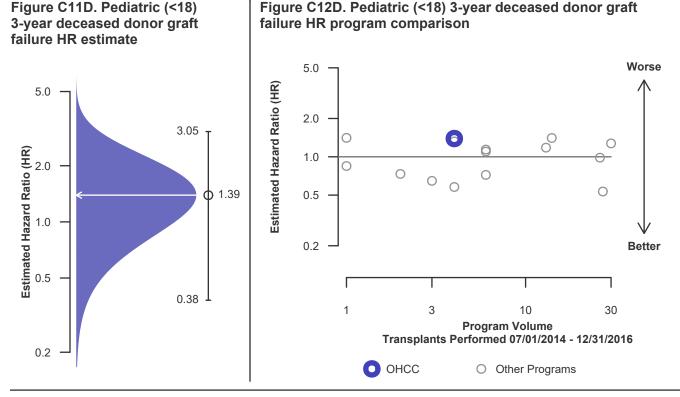
### **C. Transplant Information**

# Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft</th>Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 07/01/2014 and 12/31/2016Deaths and retransplants are considered graft failuresOHCC

	OHCC	U.S.
Number of transplants evaluated	4	147
Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics)	50.00%	69.39%
Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)	69.51%	
Number of observed graft failures (including deaths) during the first 3 years after transplant	2	45
Number of expected graft failures (including deaths) during the first 3 years after transplant	0.88	
Estimated hazard ratio*	1.39	
95% credible interval for the hazard ratio**	[0.38, 3.05]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.38, 3.05], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 39% higher risk of graft failure compared to an average program, but OHCC's performance could plausibly range from 62%





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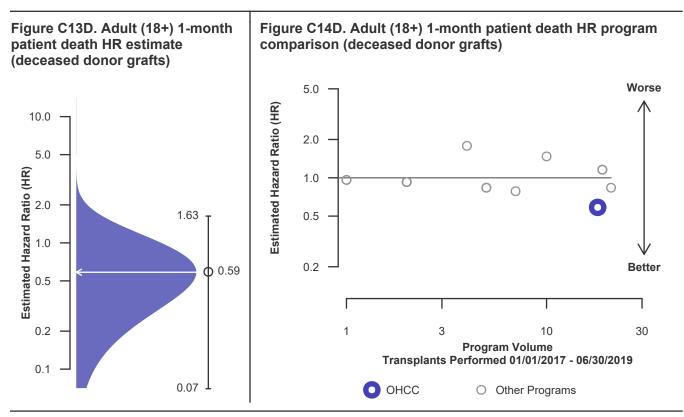
### **C. Transplant Information**

# Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only) Transplants performed between 01/01/2017 and 06/30/2019 Retransplants excluded

	OHCC	U.S.
Number of transplants evaluated	18	118
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	92.37%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	92.43%	
Number of observed deaths during the first month after transplant	0	9
Number of expected deaths during the first month after transplant	1.42	
Estimated hazard ratio*	0.59	
95% credible interval for the hazard ratio**	[0.07, 1.63]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.07, 1.63], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 41% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 93% reduced risk up to 63% increased risk.





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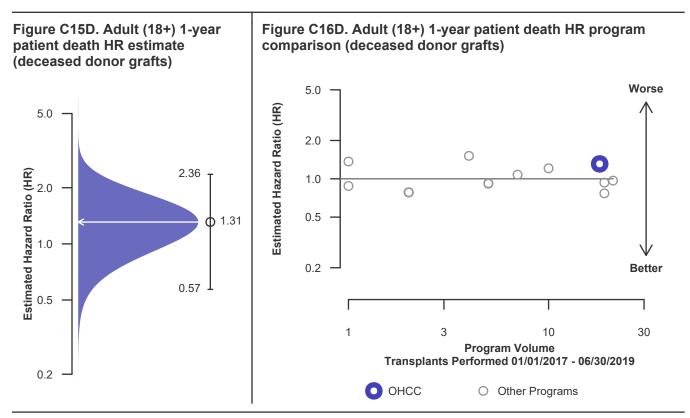
### **C. Transplant Information**

# Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients)Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 01/01/2017 and 06/30/2019Retransplants excludedOHCC

	OHCC	U.S.
Number of transplants evaluated	18	118
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	66.67%	75.60%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	75.73%	
Number of observed deaths during the first year after transplant	6	28
Number of expected deaths during the first year after transplant	4.11	
Estimated hazard ratio*	1.31	
95% credible interval for the hazard ratio**	[0.57, 2.36]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.57, 2.36], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 31% higher risk of patient death compared to an average program, but OHCC's performance could plausibly range from 43% reduced risk up to 136% increased risk.



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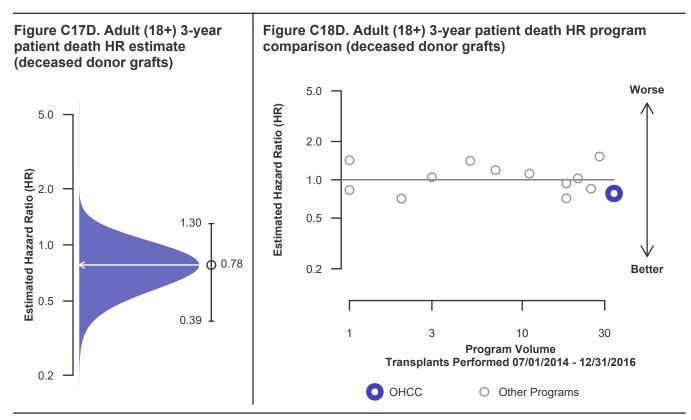
### **C. Transplant Information**

# Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients)Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 07/01/2014 and 12/31/2016Retransplants excludedOHCC

	OHCC	U.S.
Number of transplants evaluated	34	176
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	73.53%	66.48%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	66.58%	
Number of observed deaths during the first 3 years after transplant	9	59
Number of expected deaths during the first 3 years after transplant	12.10	
Estimated hazard ratio*	0.78	
95% credible interval for the hazard ratio**	[0.39, 1.30]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.39, 1.30], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 22% lower risk of patient death compared to an average program, but OHCC's performance could plausibly range from 61% reduced risk up to 30% increased risk.





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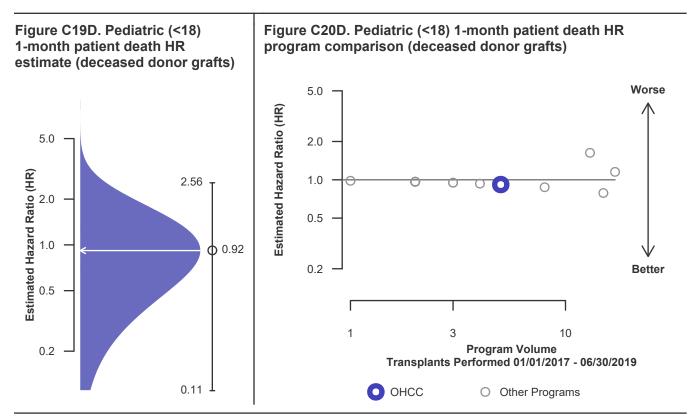
### **C. Transplant Information**

# Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients)</th>Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 01/01/2017 and 06/30/2019Retransplants excludedOHCC

	ОНСС	U.S.
Number of transplants evaluated	5	84
Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics)	100.00%	96.43%
Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)	96.46%	
Number of observed deaths during the first month after transplant	0	3
Number of expected deaths during the first month after transplant	0.18	
Estimated hazard ratio*	0.92	
95% credible interval for the hazard ratio**	[0.11, 2.56]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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



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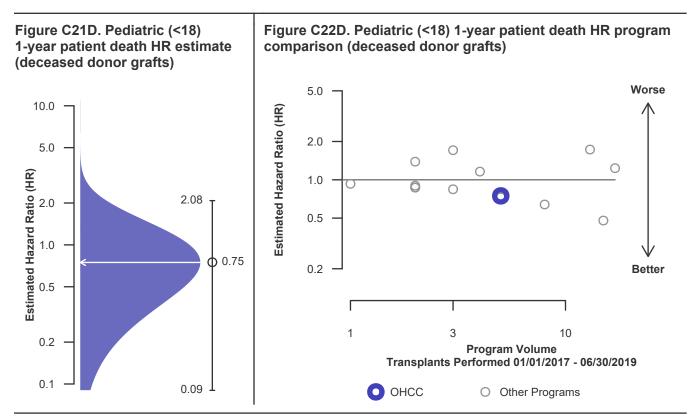
### **C. Transplant Information**

# Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients)</th>Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 01/01/2017 and 06/30/2019Retransplants excludedOHCC

	OHCC	U.S.
Number of transplants evaluated	5	84
Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics)	100.00%	85.93%
Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)	86.03%	
Number of observed deaths during the first year after transplant	0	11
Number of expected deaths during the first year after transplant	0.68	
Estimated hazard ratio*	0.75	
95% credible interval for the hazard ratio**	[0.09, 2.08]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

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





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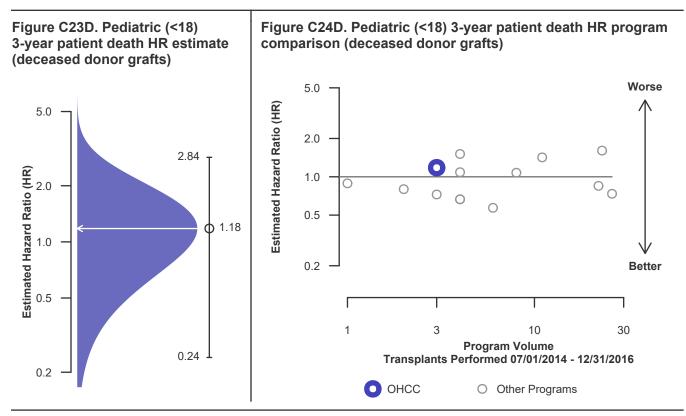
### **C. Transplant Information**

# Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients)</th>Intestine (Single-Organ and Intestine with Liver and/or Pancreas Transplants Only)Transplants performed between 07/01/2014 and 12/31/2016Retransplants excludedOHCC

	OHCC	U.S.
Number of transplants evaluated	3	121
Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics)	66.67%	77.69%
Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)	77.78%	
Number of observed deaths during the first 3 years after transplant	1	27
Number of expected deaths during the first 3 years after transplant	0.54	
Estimated hazard ratio*	1.18	
95% credible interval for the hazard ratio**	[0.24, 2.84]	

\* The hazard ratio provides an estimate of how The Cleveland Clinic Foundation (OHCC)'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 OHCC's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

\*\* The 95% credible interval, [0.24, 2.84], indicates the location of OHCC's true hazard ratio with 95% probability. The best estimate is 18% higher risk of patient death compared to an average program, but OHCC's performance could plausibly range from 76% reduced risk up to 184% increased risk.





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### **C. Transplant Information**

#### Table C17. Multi-organ transplant graft survival: 01/01/2017 - 06/30/2019

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transp Perfor OHCC-TX1		Intest Graft Fa OHCC-TX1	ilures	Estimated Graft Su OHCC-TX1	irvival
Pancreas-Intestine	3	9	0	1	100.0%	88.9%
Pancreas-Liver-Intestine	12	57	7	27	41.7%	51.2%
Pediatric (<18) Transplants	First-Year Outcomes					
Transplant Type	Transplants Performed OHCC-TX1 USA		Intestine Graft Failures OHCC-TX1 USA		Estimated Intestine Graft Survival OHCC-TX1 USA	
Pancreas-Liver-Intestine	6	71	0	11	100.0%	83.6%

#### Table C18. Multi-organ transplant patient survival: 01/01/2017 - 06/30/2019

Adult (18+) Transplants	First-Year Outcomes					
Transplant Type	Transp Perfor OHCC-TX1	med	Patient D OHCC-TX1	eaths USA	Estim Patient OHCC-TX	Survival
Pancreas-Intestine	3	9	0	0	100.0%	100.0%
Pancreas-Liver-Intestine	12	57	7	24	41.7%	56.8%
Podiatric (<18) Transplants	First-Year Outcomes					

Pediatric (<18) Transplants	First-Year Outcomes					
Transplant Type	Transp Perfor OHCC-TX1	med	Patient D OHCC-TX1		Estima Patient S OHCC-TX1	urvival
Pancreas-Liver-Intestine	6	71	0	10	100.0%	85.1%