SR TR

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SRTR 101

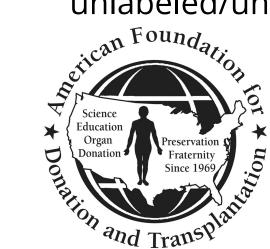
Jon J. Snyder, PhD

Director of Transplant Epidemiology Chronic Disease Research Group Hennepin Healthcare Research Institute Minneapolis, MN

Disclosures

I have no financial relationships to disclose within the past 12 months relevant to my presentation. The ACCME defines 'relevant' financial relationships as financial relationships in any amount occurring within the past 12 months that create a conflict of interest.

My presentation does/does not include discussion of off-label or investigational use, and I do/do not intend to reference unlabeled/unapproved uses of drugs or products in my presentation.



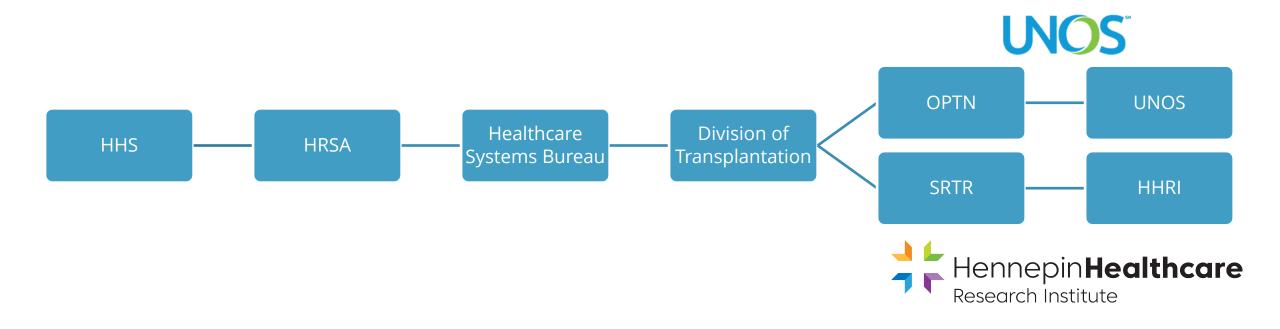


Disclosures - SRTR

The views expressed do not necessarily reflect the official policies of the U.S. Department of Health and Human Services nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.



SRTR's Place Within the Nation's Transplant System











SRTR's Major Deliverables



Public Reporting

Website

PSRs

OSRs

ADR



Analytic Support

HRSA

OPTN



Quality Tools

Secure Site

CUSUMs

Workbooks

Decision Aids



Research Support

Data Access

Data Queries



FIND & COMPARE TRANSPLANT PROGRAMS



Search by Postal Code or Program Name (optional)

SEARCH

ABOUT SRTR V ABOUT THE DATA V

REPORTS & TOOLS >

NEWS & MEDIA >

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FAQS Y

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Over 26,000 transplants have been performed so far this year.

Upcoming PSR/OSR Changes and Model Previews

Read the announcement:



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✓ Select Organ
Liver
Kidney
Pancreas
Kidney-Pancreas

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REQUESTING SRTR DATA >

FAQS ~

CONTACT US

Over 26,000 transplants have been performed so far this year.

Upcoming PSR/OSR Changes and Model Previews

Heart Lung

Heart-Lung

Read the announcement:

YEAR

For heart transplant candidates, this measure has the largest impact on survival after listing among these three measures. 1 year heart survival includes only candidates who received a transplant.

Temple University Hospital

Philadelphia, PA

View Summary Data

View Complete Report (PDF)

N/A

17 ADULTS







St Luke's Hospital of Kansas City

Kansas City, MO

View Summary Data
View Complete Report (PDF)

N/A

39 ADULTS







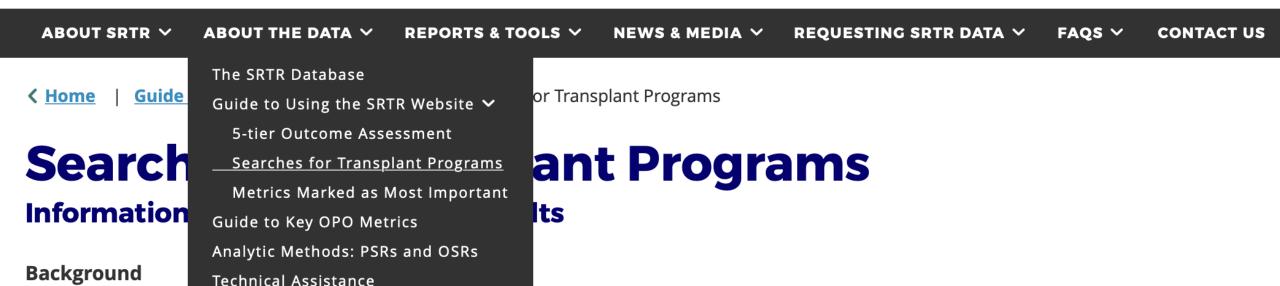


FIND & COMPARE TRANSPLANT PROGRAMS



Search by Postal Code or Program Name (optional)

SEARCH



The SRTR website anows users to search for transplant programs through the search functionality found at the top of all website pages. This guide provides a brief explanation of the information presented in searches for transplant programs.

PSR Reporting Schedule

January Release

- October: Data Review
- December:Report Preview

July Release

- April: Data Review
- June: ReportPreview

SRTR contractual reporting obligations:

Waitlist activity

Waitlist outcomes

Posttransplant outcomes

Acceptance and utilization of organs

Cost and resource utilization by transplant programs

Living donor outcomes

Waitlist AS OF JANUARY 2018 WERE ON THE WAITLIST WERE REMOVED **JOINED THE LIST** 87 received transplants 0 transferred to another center 5 deteriorated 5 recovered 2 other 2 died

AT THE END OF DECEMBER 2018



WERE ON THE WAITLIST

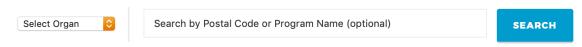
Transplant Rate

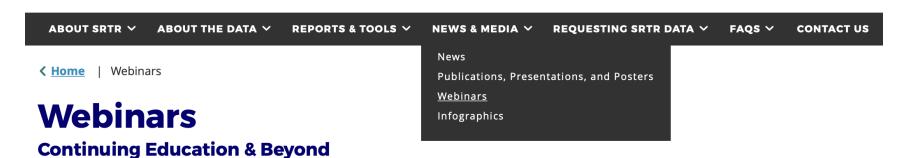


How quickly do patients move from the waitlist to transplant?

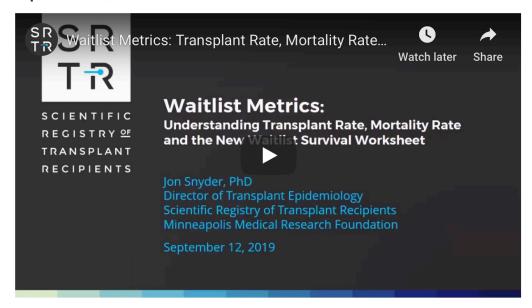


FIND & COMPARE TRANSPLANT PROGRAMS

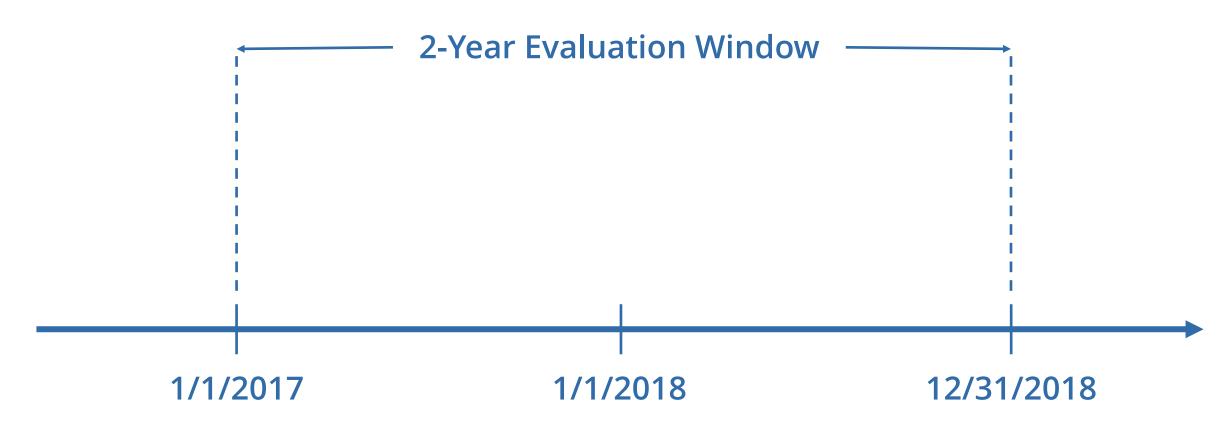




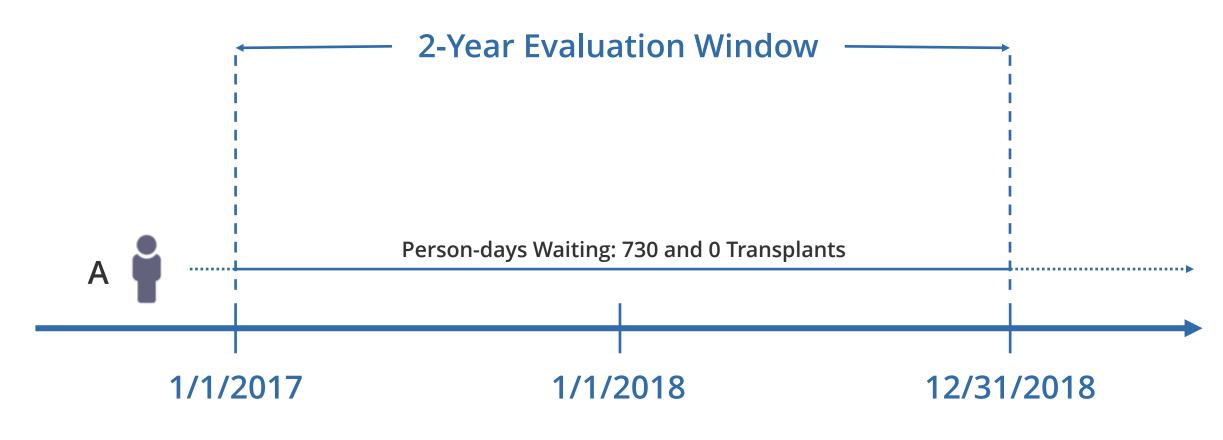
<u>September 12, 2019</u>



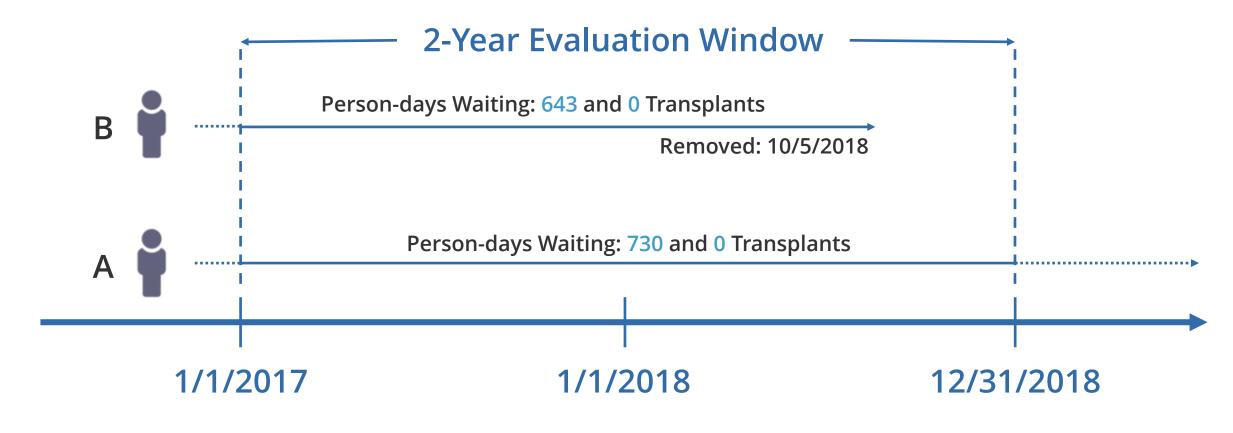




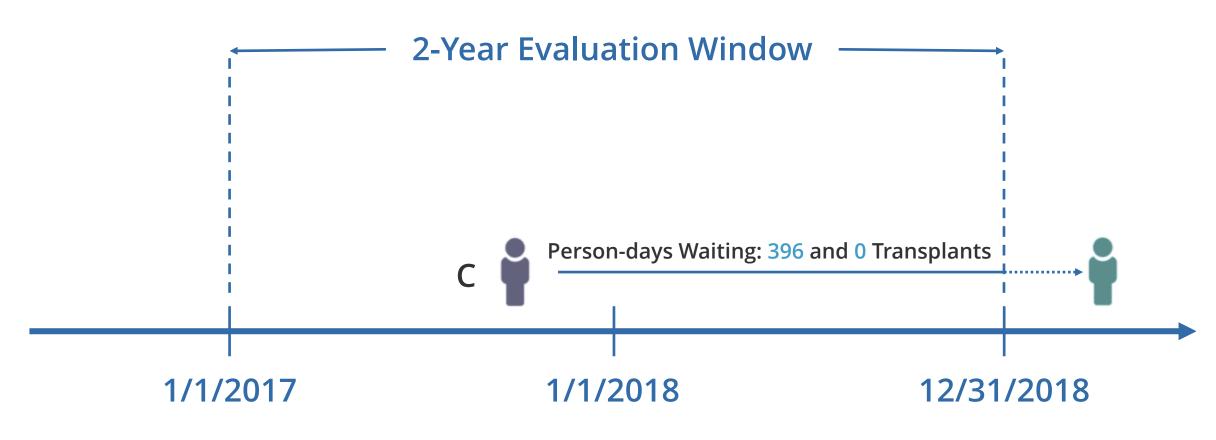


















Patient	Person-Days Waiting	Transplants
A	730	0
В	643	0
С	396	0
D	625	1
Total	2,394	1



Patient	Person-Days Waiting	Transplants
Α	730	0
В	643	0
С	396	0
D	625	1
Total	2,394	1

0.000418 Transplants Per Person-Day of Waiting



Patient	Person-Days Waiting	Transplants
Α	730	0
В	643	0
С	396	0
D	625	1
Total	2,394	1

Convert to a rate per 100 Person-Years by Multiplying by 365.25*100

$$0.000418*365.25*100 = 15.3$$



Patient	Person-Days Waiting	Transplants
Α	730	0
В	643	0
С	396	0
D	625	1
Total	2,394	1

Convert to a rate per 100 Person-Years by Multiplying by 365.25*100

0.000418*365.25*100 = 15.3

15.3 Transplants Per 100 person-years of waiting

Transplant Rate: FAQs



Inactive Time:

Active/Inactive time are both considered in the denominator.

Discrepancy Between
Transplant/Death and Waitlist
Removal

• If a patient is determined to have been transplanted or died prior to removal from the waitlist, the waitlist time is truncated to the transplant/death date.

Multiple Listings

• If a patient is listed at multiple programs, only the transplanting program is credited with the transplant and the patient's follow-up time is censored at the other program(s) on the date of transplant.

Multi-organ Listings

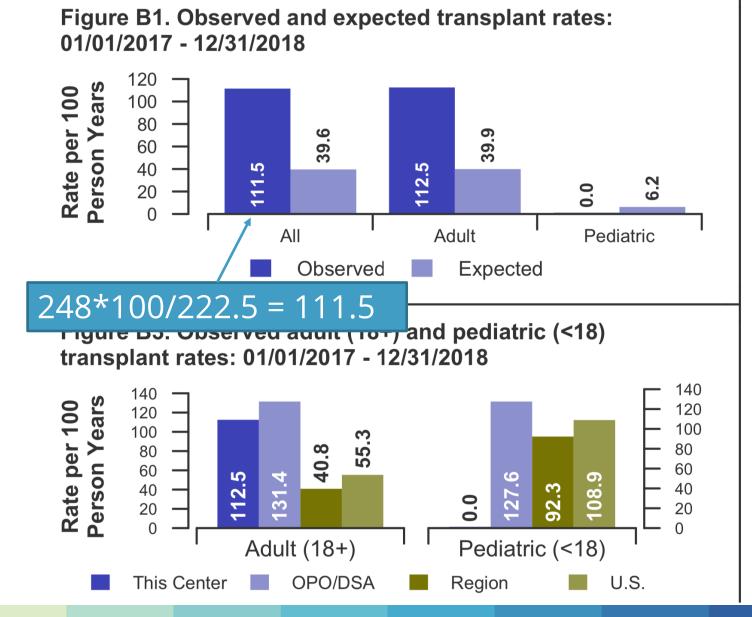
• If a candidate is simultaneously listed for more than 1 organ, the candidate is included in the transplant rate calculation for each of the organs.

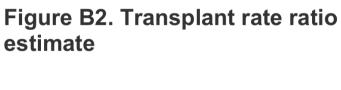
Table B4. Transplant rates: 01/01/2017 - 12/31/2018

Waiting List Registrations	This Center	OPO/DSA	Region	U.S.
All Candidates				
Count on waiting list at start*	126	243	3,158	14,684
Person Years**	222.5	2/0*100	0/222.5 = 1	11 5 6.6
Removals for Transplant	248	240 100)/	B2
Adult (18+) Candidates				
Count on waiting list at start*	125	238	3,044	14,113
Person Years**	220.5	397.2	5,642.7	27,396.5
Removals for transpant	248	522	2,304	15,145
Pediatric (<18) Candidates				
Count on waiting list at start*	1	5	114	571
Person Years**	2.0	11.8	242.8	1,090.1
Removals for transplant	0	15	224	1,187

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

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





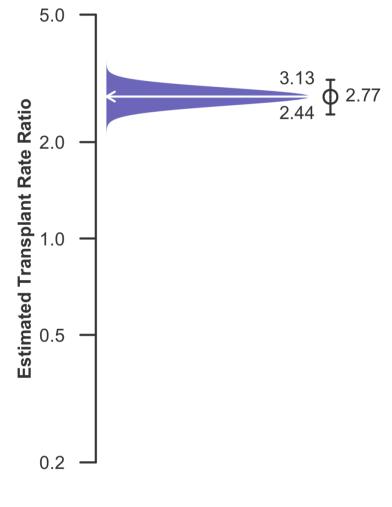


Figure B1. Observed and expected transplant rates: 01/01/2017 - 12/31/2018

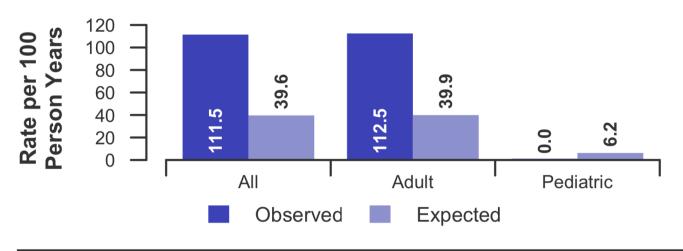


Figure B3. Observed adult (18+) and pediatric (<18) transplant rates: 01/01/2017 - 12/31/2018

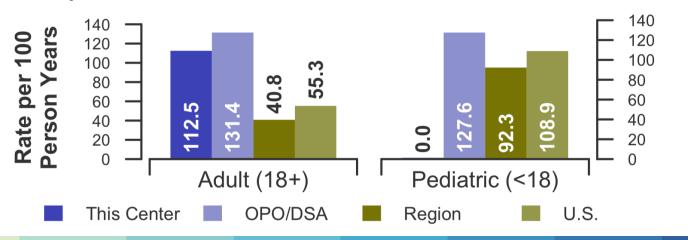
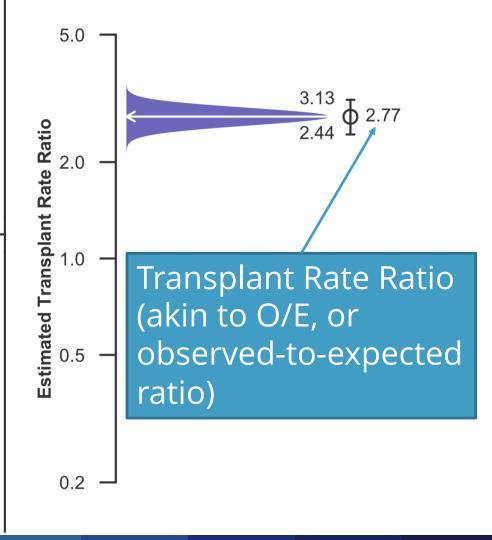


Figure B2. Transplant rate ratio estimate



Two Variations of Transplant Rates Are Presented

[All-Donor] Transplant Rate:

- Considers both a living donor transplant and a deceased donor transplant as a success.
- Pro: Reflects the experience of all patients at the program whether they have a living donor available or not.
- Con: Differences in timing of listing candidates with a known living donor can lead to higher or lower rates.

Deceased-Donor Transplant Rate:

- Stops a candidate's follow-up at the time of a living donor transplant and does not count the living donor transplant as a success.
- Pro: Truer to a candidate's experience if they do not have a living donor available.
- Con: May not reflect the total experience of patients at the program since living donor transplants are not counted as a success.

	DISTANCE	TRANSPLANTS IN A YEAR	LIVING DONOR TRANSPLANTS IN A YEAR	SURVIVAL ON THE WAITLIST	DECEASED DONOR TRANSPLANT FASTER	1-YEAR LIVER SURVIVAL
For liver transplant candidates, the only candidates who received a transp		he largest impact on	survival after listing	among these three	measures. 1 year liver	survival includes
Mayo Clinic Hospital						
Phoenix, AZ	N/A	128	1		-	Ш
View Summary Data View Complete Report (PDF)		ADULTS	ADULTS			
Northwestern Memorial Hospital	N/A	N/A 98	8			
Chicago, IL		ADULTS	ADULTS			
View Summary Data View Complete Report (PDF)						
Tulane Medical Center						
New Orleans, LA	N/A	22	0			

ADULTS

View Summary Data

The adult or pediatric deceased donor transplant rate serves as the basis for this evaluation on the SRTR Search Results Page.

ADULTS

Waitlist Mortality

Question of interest

 At what rate do waitlist candidates die following listing and prior to transplant?

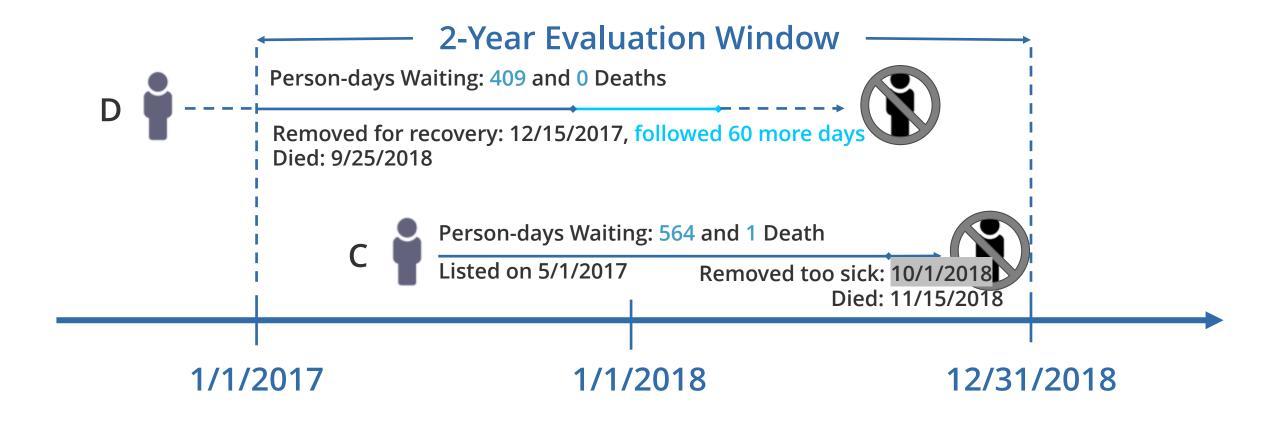
Waitlist Mortality: Evaluation Period

Patients are followed from the date of listing or start of the evaluation window, whichever is later, until:

- Transplant
- Death
- Transfer to another program
- 60 days past removal for recovery (transplant is no longer needed)
- End of the evaluation window

Patients are followed beyond removal for being too sick to transplant with death ascertainment supplemented by additional searches by OPTN, NTIS, and CMS.

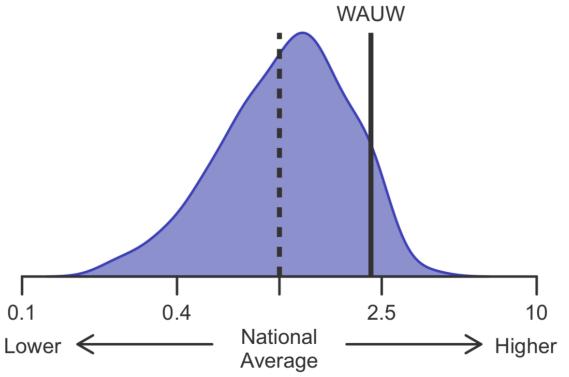
Waitlist Mortality Rate: Evaluation Period



B. Waiting List Information

Figure B7. Offer acceptance: Overall **WAUW**

Figure B8. Offer acceptance: PHS increased infectious risk



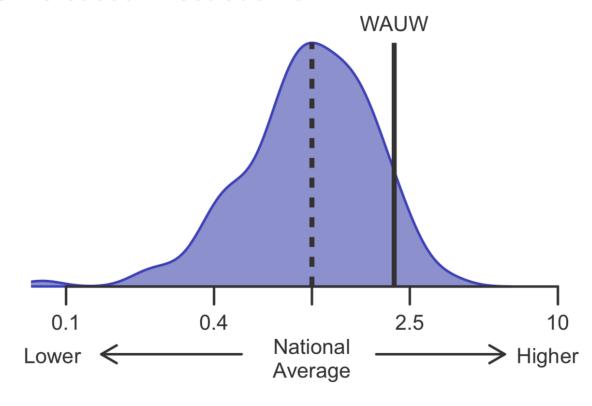


Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2016 and 06/30/2018 Deaths and retransplants are considered graft failures

		WAUW	U.S.
Number of transplants evaluated	153	6,481	
Estimated probability of surviving with a functioning (unadjusted for patient and donor characteristics)	90.85%	91.17%	
Expected probability of surviving with a functioning (adjusted for patient and donor characteristics)	90.11%		
Number of observed graft failures (including deaths during the first year after transplant	14	548	
Number of expected graft failures (including deaths during the first year after transplant	s)	13.78	
Estimated hazard ratio*	(O+2)/(E+2)	1.01	
95% credible interval for the hazard ratio**	(O+2)/(L+2)	[0.58, 1.57]	

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

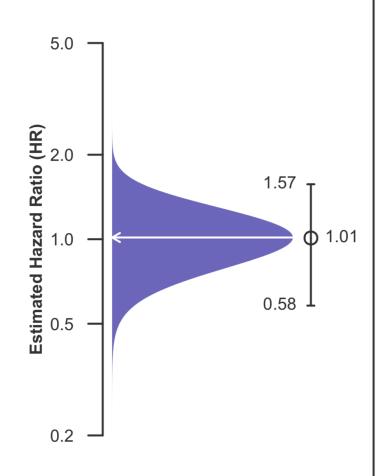
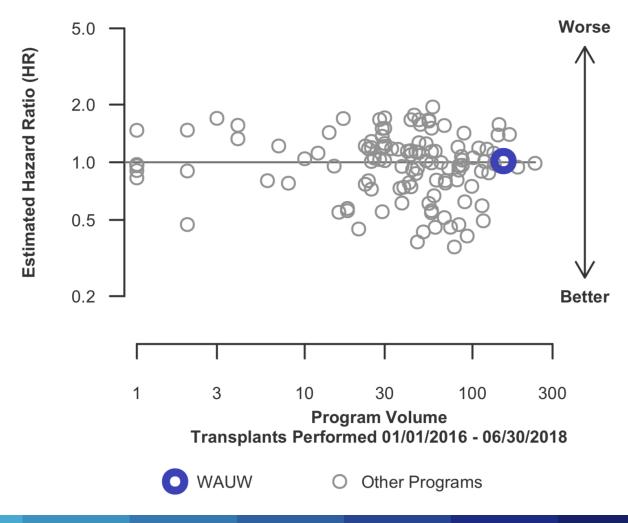
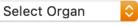


Figure C4D. Adult (18+) 1-year deceased donor graft failure HR program comparison





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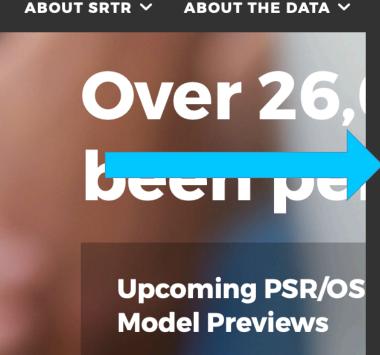


Search by Postal Code or Program Name (optional)

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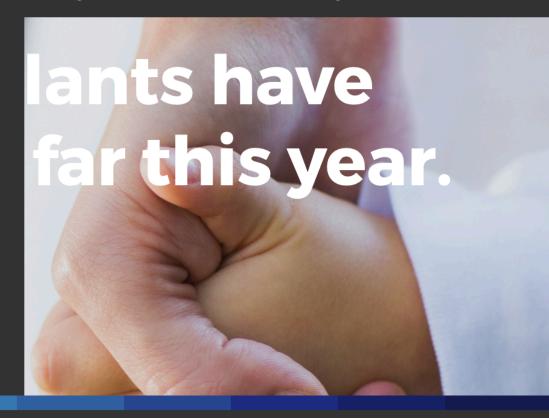
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REPORTS & TOOLS > NEWS & MEDIA V **About SRTR Reports** SRTR/OPTN Annual Data Report **Program-Specific Reports** Organ Procurement Organization Reports Risk Adjustment Models > Posttransplant Outcomes Waiting List Offer Acceptance OPOs **PSR** Reporting Timeline **OSR Reporting Timeline** Kidney Transplant Decision Tool Liver Waiting List Calculator



FAQS Y

SRTR Waiting List Risk Adjustment Models

Choose a PSR Release Date:

Transplant Rate, or Waitlist Mortality Rate. July 2019 **Model Coefficients** Model Elements **Model Element Plots** Additional Info Baseline Hazard Organ Kidney Model Elements Table Liver Heart This table lists the elements included in the risk adjustment model and each element's data source. For additional information on the data Lung sources, click the Additional Info tab. Pancreas Show 25 entries Search: Intestine Element Source Simultaneous Heart-Lung **Outcome** Candidate age at listing **TCR** Transplant Rate Candidate blood type **TCR** Deceased Donor Transplant Rate Candidate has spontaneous bacterial peritonitis Waitlist Mortality **TCR** Choose an age group: Candidate BMI Calculated Pediatric (<18) Candidate diabetes status/type at onset TCR O Adult (18+) Candidate education TCR Candidate ethnicity TCR Candidate cov TCD

Choose the Transplant Rate, Deceased-Donor Only



SRTR Waiting List Risk Adjustment Models Model Elements: Which items are accounted for in the Choose a PSR Release Date: risk adjustment? July 2019 • **Model Elements Model Coefficients Model Element Plots Baseline Hazard** Additional Info Organ Kidney Model Elements Table Liver Heart This table lists the elements included in the risk adjustment model and each element's data source. For additional information on the data Lung sources, click the Additional Info tab. Pancreas Show 25 entries Search: Intestine Element Source Simultaneous Heart-Lung **Outcome** Candidate age at listing TCR Transplant Rate Candidate blood type **TCR** Deceased Donor Transplant Rate Candidate has spontaneous bacterial peritonitis Waitlist Mortality TCR Choose an age group: Candidate BMI Calculated O Pediatric (<18) Candidate diabetes status/type at onset TCR O Adult (18+) Candidate education TCR

Candidate ethnicity

Candidate cov

TCR

TCD

SRTR Waiting List Risk Adjustment Models Model Coefficients: Provides the actual statistical Choose a PSR Release Date: model used and the ability to download the file. July 2019 • Model Coefficients **Model Elements Model Element Plots Baseline Hazard** Additional Info Organ Kidney Model Coefficients Table Liver Heart This table shows the coefficients, from a Poisson survival model, for each level of the risk adjusters included in the model. To better understand Lung the relationship between each element and modeled risk, click on the Model Element Plots tab. Additionally, the estimated effects are accessible by clicking on Download .CSV File. Pancreas Intestine ▲ Download .CSV File Simultaneous Heart-Lung Outcome Show 25 entries Search: Transplant Rate Coefficient **Element** Level Deceased Donor Transplant Rate Waitlist Mortality Candidate age at listing Apply to > 45 (Right LS) 0.004130 Choose an age group: Candidate age at listing Apply to > 60 (Right LS) 0.000000 Pediatric (<18)

Candidate age at listing

Candidate age at listing

Candidate blood type

O Adult (18+)

0.000000

-0.007345

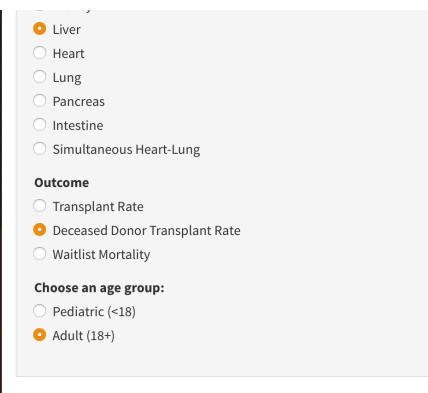
0.010567

Apply to < 30 (Left LS)

Apply to < 60 (Left LS)

Α

SRTR Waiting List Risk Adjustment Models Model Element Plots: Shows a graphical representation Choose a PSR Release Date: of how the risk adjustment works. July 2019 **Model Elements Model Coefficients** Model Element Plots **Baseline Hazard** Additional Info Organ Kidney Model Element Plots Liver Heart Select a covariate from the model to see the relationship between the covariate and the deceased donor transplant rate. Lung Pancreas Select a Covariate to Plot Intestine Simultaneous Heart-Lung Candidate blood type **Outcome** Transplant Rate Deceased Donor Transplant Rate Waitlist Mortality Choose an age group: O Pediatric (<18) O Adult (18+)



For candidate blood type, we see the model expects the transplant rate to be 2.15x higher for AB candidates compared to A or O candidates.



SRTR Waiting List Risk Adjustment Models

Choose a PSR Release Date:

July 2019 \blacksquare Organ Kidney Liver Heart Lung Pancreas Intestine Simultaneous Heart-Lung Outcome Transplant Rate Deceased Donor Transplant Rate Waitlist Mortality Choose an age group: O Pediatric (<18) O Adult (18+)

Baseline Hazard: Needed if a statistician would like to use the model.

Model Elements Model Coe

Model Coefficients Model Element Plots

Baseline Hazard

Additional Info

The waiting list models use a constant baseline hazard.

Model Baseline Hazard = 0.002260

SRTR Waiting List Risk Adjustment Models Additional Info: Additional notes about the model.

Choose a PSR Release Date:

Choose an age group:

Pediatric (<18)

O Adult (18+)

July 2019 Organ Kidney Liver Heart Lung Pancreas Intestine O Simultaneous Heart-Lung Outcome Transplant Rate Deceased Donor Transplant Rate Waitlist Mortality

Model Coefficients Additional Info **Model Elements Model Element Plots Baseline Hazard**

Additional Model Information

Multi-organ Candidates

The status of waiting for a non-liver transplant is determined by being listed on a non-liver waiting list within 30 days of listing on the liver waiting list. Similarly, the status of having undergone non-liver transplant is determined up to 30 days after placement on the liver waiting list.

Waiting for a heart includes heart and heart-lung listings. Waiting for a kidney-pancreas includes kidney-pancreas and pancreas listings.

The variable for having undergone heart transplant includes heart and heart-lung transplants. The variable for having undergone kidney-pancreas transplant includes kidney-pancreas and pancreas transplants.

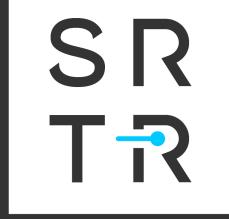
MELD (Model for end-stage liver disease)

For candidates listed before implementation of MELD (February 27, 2002), the earliest non-missing MELD value is used. For candidates listed after implementation of MELD, MELD at listing is used.

Data Sources

The Source column in the Model Elements table identifies, if it exists, the location of the variable in the OPTN database. "TCR" corresponds to the Transplant Candidate Registration form. "Status History" variables are typically used in allocation and values may change over time. These are selected in a process similar to the selection of MELD scores, as described above. "Calculated" variables are derived from variables in the TCR or Status History.

Natural-Log Scale



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Tools for Programs

Nicholas Salkowski, PhD





SecureSRTR.transplant.hrsa.gov

Welcome to the new SRTR Secure Website launched on February 20, 2019. If this is your first time logging in to the new site, and you had an active account on the old site, you MUST reactivate your account.

Log In

Enter your email address and password to continue. To keep SRTR secure, passwords expire after 60 days of inactivity.

EMAIL ADDRESS

Email Address

PASSWORD

Password SHOW

Forgot your password?

LOG IN

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By using this information system, you understand and consent to the following:

 You have no reasonable expectation of privacy regarding any communications or data transiting or stored on this information system. At any time, and



CUSUMs (<u>cu</u>mulative <u>sum</u>) are currently provided for the following metrics:

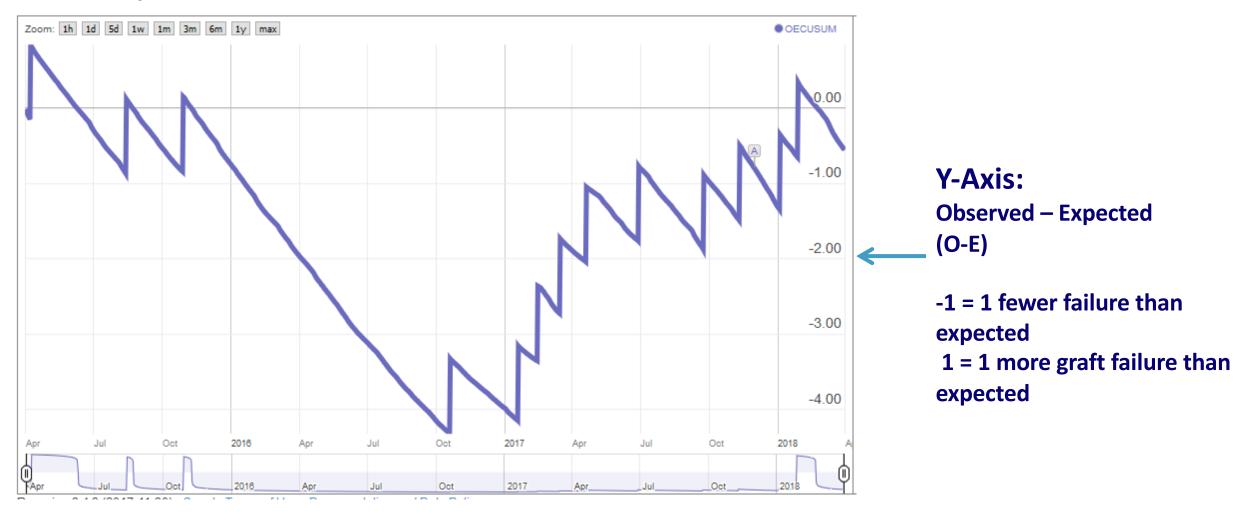
Posttransplant Graft/Patient Survival

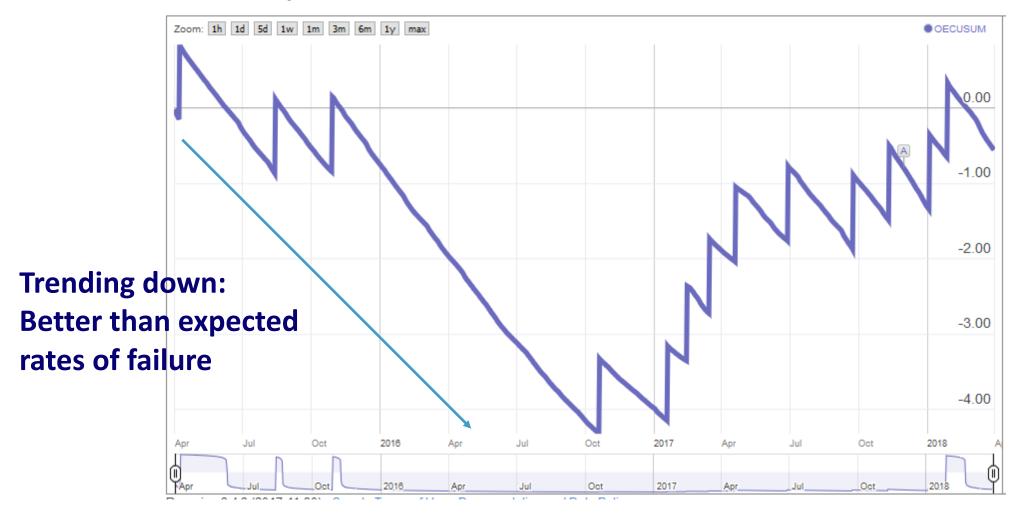
Offer Acceptance

Observed - Expected CUSUM: All Donor Adult One-Year Graft Failure



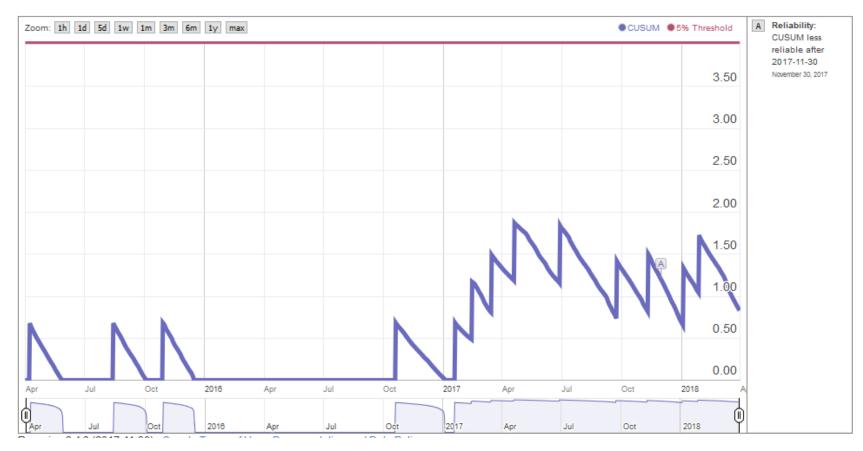






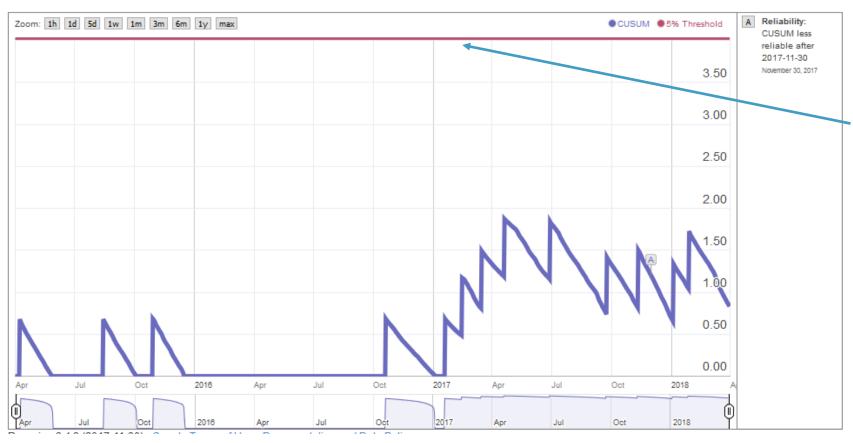


One-Sided CUSUM: All Donor Adult One-Year Graft Failure



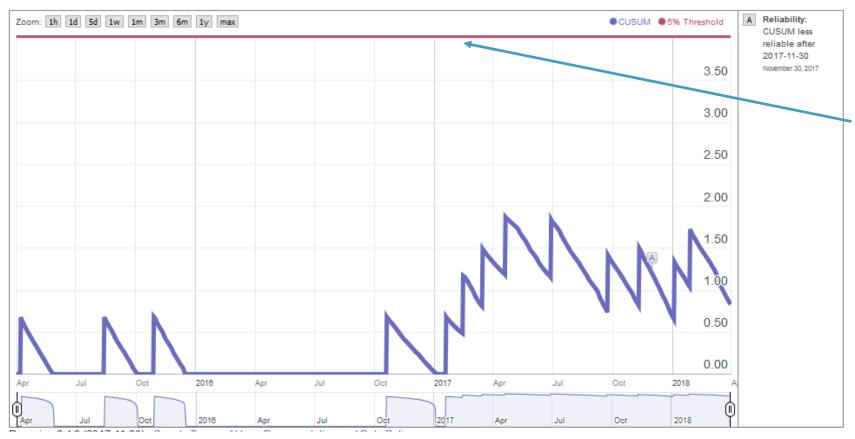
Attempts to discern whether the observed trends are "statistically significant" or perhaps just random noise.

One-Sided CUSUM: All Donor Adult One-Year Graft Failure



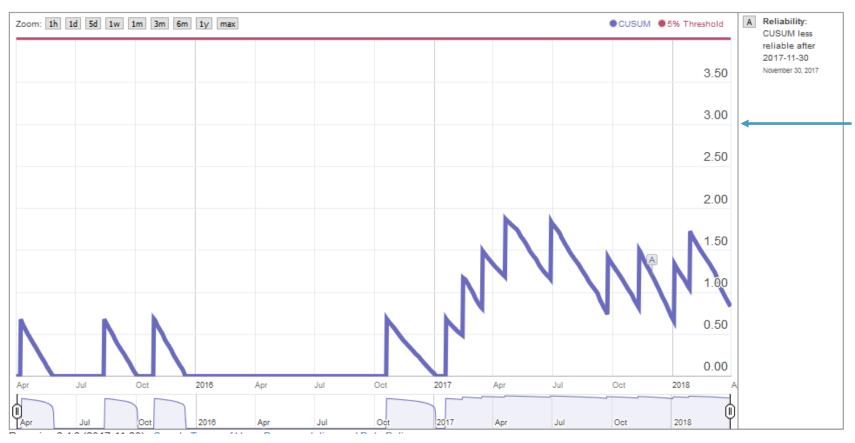
Has a red "5% Threshold line at the top of the chart. If the line hits the threshold, we conclude there is sufficient evidence of a real trend.

One-Sided CUSUM: All Donor Adult One-Year Graft Failure



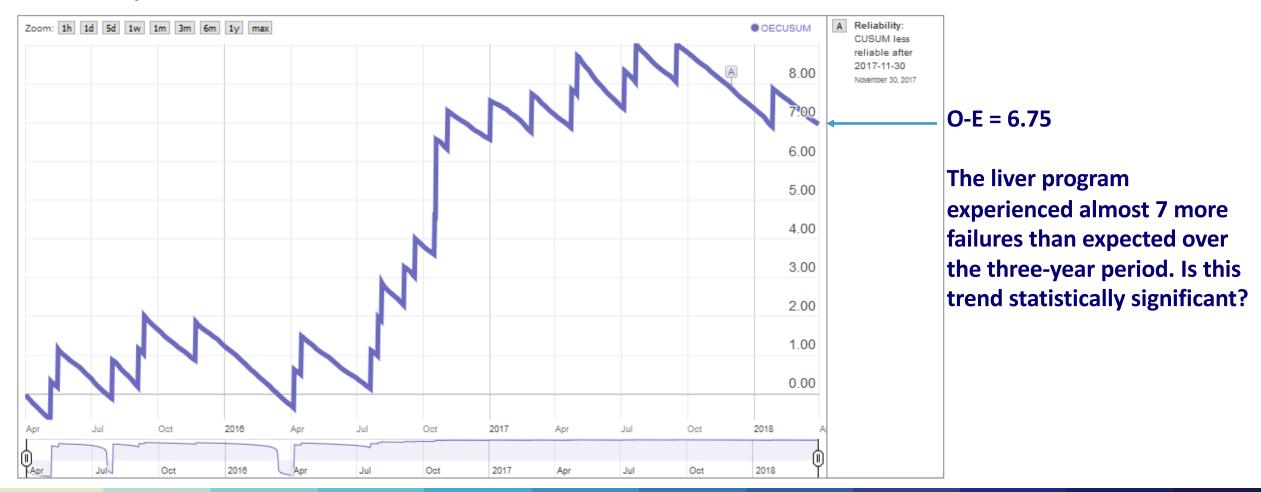
It is called the "5% threshold" because there is about a 5% chance of a false positive if the chart hits this line.

One-Sided CUSUM: All Donor Adult One-Year Graft Failure

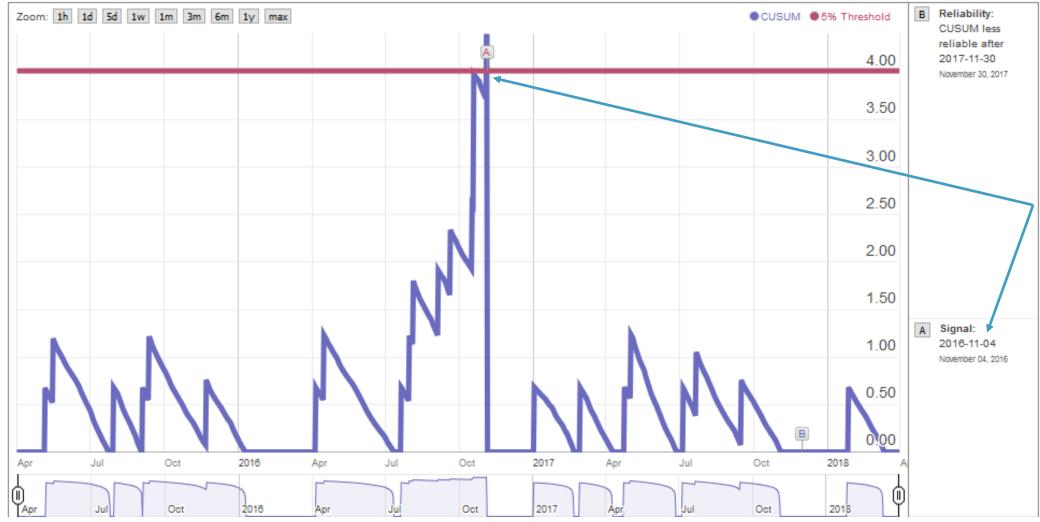


Y-axis is more difficult to interpret (i.e., don't worry about the value). It is the value of the CUSUM test statistic. Importantly, it is not O-E.

2018-05-01



One-Sided CUSUM: All Donor Adult One-Year Graft Failure

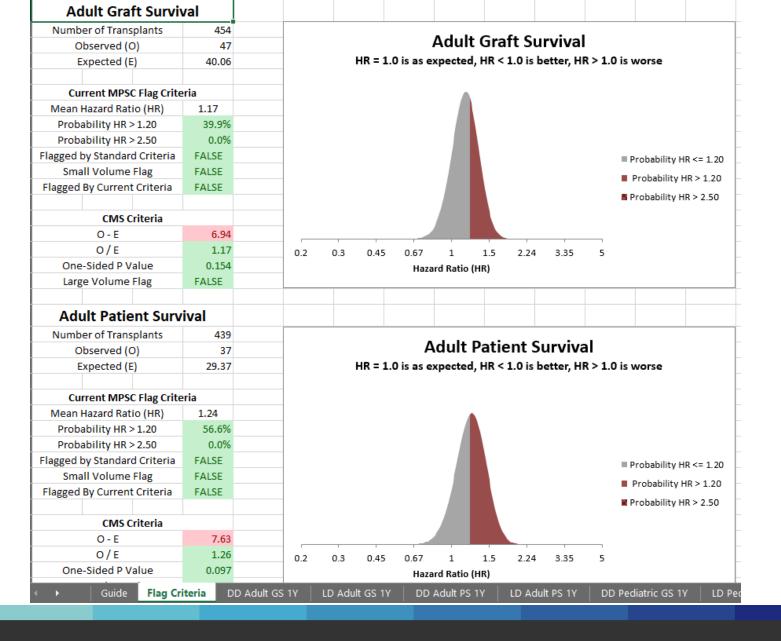


This chart signaled on 11/4/2016. This is when the chart had accumulated enough evidence that the observed trend was more than statistical noise (with a 5% chance this is a false positive).



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Expected Survival Worksheets



Liver													
Deceased Donor Adult 1	-Year Graft	Survival											
2015-01-01 to 2017-06-30)												
Number of Transplants:	452												
Observed:	47												
Expected:	39.84												
Include This Patient?	Patient ID	Transplant Date	Graft Failure?	Graft Failure Date	End Follow Up	Follow Up Days	Expected	Observed & Included	Expected & Included	Candidat	e Cand	idate Can	ndidate (
1		2015-01-02	0		2016-01-02		0.071305				0	0	0
1	L	2015-01-03	0		2016-01-03	365	0.110962	C	0.110962273		0	0	1
1	L	2015-01-03	0		2016-01-03	365	0.13501	0	0.135009634		0	0	0
1	L	2015-01-08	0		2016-01-08	365	0.09341	0	0.093409637		1	0	0
1	L	2015-01-09	0		2016-01-09	365	0.074971	0	0.07497065		0	0	0
1	L	2015-01-10	0		2016-01-10	365	0.164489	0	0.164489411		0	0	0
1	L	2015-01-10	0		2016-01-10	365	0.101648	0	0.101648251		1	0	0
1	L	2015-01-11	0		2016-01-11	365	0.079115	0	0.079114739		1	0	0
1	L	2015-01-12	0		2016-01-12	365	0.084535	0	0.084534656		0	0	1
1	L	2015-01-17	0		2016-01-17	365	0.059417	0	0.059416746		0	0	1
1	L	2015-01-19	0		2016-01-19	365	0.087197	0	0.087197434		0	0	1
1	L	2015-01-21	1	2016-01-15	2016-01-21	359	0.073983	1	0.073983253		1	0	0
1	L	2015-01-21	0		2016-01-21	365	0.111053	0	0.11105283		1	0	0
1	L	2015-01-23	0		2016-01-23	365	0.107148	0	0.107147508		0	0	0
1	L	2015-01-24	0		2016-01-24	365	0.132924	0	0.13292369		0	0	0
1	L	2015-01-26	0		2016-01-26	365	0.104203	0	0.104202904		1	0	0
1	L	2015-01-30	0		2016-01-30	365	0.092388	0	0.092387638		1	0	0
1	L	2015-02-02	0		2016-02-02	365	0.086283	0	0.086282679		1	0	0
1	L	2015-02-04	0		2016-02-04	365	0.071031	0	0.071031001		1	0	0
1	L	2015-02-05	0		2016-02-05	365	0.069641	0	0.069640995		1	0	0
1	L	2015-02-06	0		2016-02-06	365	0.115234	C	0.115234192		0	0	0
1	L	2015-02-08	0		2016-02-08	365	0.114907	0	0.114907057		1	0	0
1	L	2015-02-08	0		2016-02-08	365	0.058356	C	0.058356495		0	0	0
1	L	2015-02-15	0		2016-02-15	365	0.068472	0	0.068471905		1	0	0

Liver											
Deceased Donor Adult 1-	Year Graft	Survival									
2015-01-01 to 2017-06-30				_				_			
Number of Transplants:	452			$C \cdot \cdot h$	a Ka		Λ	VICOC			
Observed:	47	,			12 T O) Allo	llyses			
Expected:	39.84				9.						
Include This Patient?	Patient ID		Graft Failure? Graft Failure Date						Candidate Can	didate Can	ıdidate (
1		2015-01-02	0	2016-01-02	365	0.071305	0	0.071305009	0	0	0
1		2015-01-03	0	2016-01-03	365	0.110962	0	0.110962273	0	0	1
1		2015-01-03	0	2016-01-03	365	0.13501	0	0.135009634	0	0	0
1		2015-01-08	0	2016-01-08	365	0.09341	0	0.093409637	1	0	0
1		2015-01-09	0	2016-01-09	365	0.074971	0	0.07497065	0	0	0
1		2015-01-10	0	2016-01-10	365	0.164489	0	0.164489411	0	0	0
1		2015-01-10	0	2016-01-10	365	0.101648	0	0.101648251	1	0	0
1		2015-01-11	0	2016-01-11	365	0.079115	0	0.079114739	1	0	0
1		2015-01-12	0	2016-01-12	365	0.084535	0	0.084534656	0	0	1
1	lг			16-01-17	365	0.059417	0	0.059416746	0	0	1
1		Set the	ese to: 0,	16-01-19	365	0.087197	0	0.087197434	0	0	1
1			•	16-01-21	359	0.073983	1	0.073983253	1	0	0
1		hlank	or FALSE to	16-01-21	365	0.111053	0	0.11105283	1	0	0
1		•		16-01-23	365	0.107148	0	0.107147508	0	0	0
1		exclud	e the patient	16-01-24	365	0.132924	0	0.13292369	0	0	0
1			-	16-01-26	365	0.104203	0	0.104202904	1	0	0
1		from th	ne analysis.	16-01-30	365	0.092388	0	0.092387638	1	0	0
1		II OIII LI	ie ariarysis.	16-02-02	365	0.086283	0	0.086282679	1	0	0
1	_	2015-02-04	0	2016-02-04	365	0.071031	0	0.071031001	1	0	0
1		2015-02-05	0	2016-02-05	365	0.069641	0	0.069640995	1	0	0
1		2015-02-06	0	2016-02-06	365	0.115234	0	0.115234192	0	0	0
1		2015-02-08	0	2016-02-08	365	0.114907	0	0.114907057	1	0	0
1		2015-02-08	0	2016-02-08	365	0.058356	0	0.058356495	0	0	0
1		2015-02-15	0	2016-02-15	365	0.068472	0	0.068471905	1	0	0

Liver													
Deceased Donor Adult 1	-Year Graft	Survival											
2015-01-01 to 2017-06-30)					_							
Number of Transplants:	452					bgro		Λ m \sim		1000			
Observed:	47					0210		Allo		1262			
Expected:	39.84								-)				
Include This Patient?	Patient ID	Transplant Date	Graft Failure?	Graft Failure Date	End Follow	w Up Follow Up Days	Expected	Observed & Included	Expecte	ed & Included	Candidate (Candidate Ca	andidate (
1		2015-01-02	0		2016-01-0	2 365	0.071305	0		0.071305009	0	0	0
1		2015-01-03	0		2016-01-0	3 365	0.110962	0		0.110962273	0	0	1
1		2015-01-03	0		2016-01-0	3 365	0.13501	0		0.135009634	0	0	0
1		2015-01-08	0		20 T	irn graft	failu	roc		0.093409637	1	0	0
1		2015-01-09	0		20 I U	ırn graft ⁻	lallu	162		0.07497065	0	0	0
1		2015-01-10	0		20	n/off or e	H +iلم	ho		0.164489411	0	0	0
1		2015-01-10	0		20 01	1/011 01 E	ait ti			0.101648251	1	0	0
1		2015-01-11	0		20	ates here		C		0.079114739	1	0	0
1		2015-01-12	0		20 UC	ites nere	•	C		0.084534656	0	0	1
1		2015-01-17	0		2010-01-1	/ 300	0.033417	C		0.059416746	0	0	1
1		2015-01-19	0		2016-01-1	9 365	0.087197	C		0.087197434	0	0	1
1		2015-01-21	1	2016-01-15	2016-01-2	1 359	0.073983	1		0.073983253	1	0	0
1		2015-01-21	0		2016-01-2	1 365	0.111053	C		0.11105283	1	0	0
1		2015-01-23	0		2016-01-2	3 365	0.107148	0		0.107147508	0	0	0
1		2015-01-24	0		2016-01-2	4 365	0.132924	0		0.13292369	0	0	0
1		2015-01-26	0		2016-01-2	6 365	0.104203	0		0.104202904	1	0	0
1		2015-01-30	0		2016-01-3	0 365	0.092388	0		0.092387638	1	0	0
1		2015-02-02	0		2016-02-0	2 365	0.086283	0		0.086282679	1	0	0
1		2015-02-04	0		2016-02-0	4 365	0.071031	0		0.071031001	1	0	0
1		2015-02-05	0		2016-02-0	5 365	0.069641	0		0.069640995	1	0	0
1		2015-02-06	0		2016-02-0		0.115234	0		0.115234192	0	0	0
1		2015-02-08	0		2016-02-0		0.114907	0		0.114907057	1	0	0
1		2015-02-08	0		2016-02-0	8 365	0.058356	0		0.058356495	0	0	0
1		2015-02-15	0		2016-02-1	5 365	0.068472	0		0.068471905	1	0	0

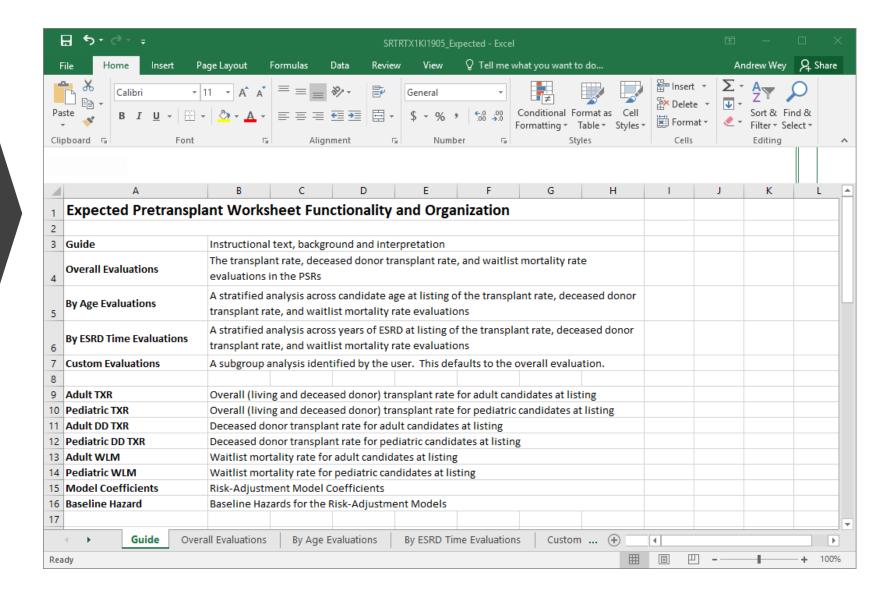
Liver															
Deceased Donor Adult 1-	Year Graft	Survival													
2015-01-01 to 2017-06-30															
Number of Transplants:	452														
Observed:	47				SILK	JOYA		$\Delta \Delta r$	12		160				
Expected:	39.84				JUL	gro	Чþ		14	I y	30				
Include This Patient?	Patient ID	•	Graft Failure?	Graft Failure Date			•		icluded [xpecte		Candidate (Candida	te Candi	idate (
1		2015-01-02	0		2016-01-02		0.071305		0		0.071305009	0		0	0
1		2015-01-03	0		2016-01-03	365	0.110962		0		0.110962273	0		0	1
1		2015-01-03	0		2016-01-03	\ /	10504			1	0.135009634	0		0	0
1		2015-01-08	0		2016-01-08	You car	า add	d			0.093409637	1		0	0
1		2015-01-09	0		2010-01-09						0.07497065	0		0	0
1		2015-01-10	0		2016-01-10	column	s to	help			0.164489411	0		0	0
1		2015-01-10	0		2010-01-10					-	0.101648251	1		0	0
1		2015-01-11	0		2016-01-11	with su	bgro	auc			0.079114739	1		0	0
1		2015-01-12	0		2010 01 12						0.084534656	0		0	1
1		2015-01-17	0		2016-01-17	analyse	es he	ere. Do	\circ		0.059416746	0		0	1
1		2015-01-19 2015-01-21	1	2016-01-15							0.087197434	0		0	0
1		2015-01-21	0	2010-01-15	2016-01-21	not add	col	umns	in		0.073983233	1		0	0
1		2015-01-21	0		2010 01 21						0.11103263	0		0	0
1		2015-01-24	0		2016-01-23	the mic	ldle	of the	7		0.13292369	0		0	0
1		2015-01-26	0								0.104202904	1		0	0
1		2015-01-30	0		2016-01-30	data ar	rav t	to the			0.092387638	1		0	0
1		2015-02-02	0								0.086282679	1		0	0
1		2015-02-04	0		2016-02-04	right of	this	s colur	nn.		0.071031001	1		0	0
1		2015-02-05	0		2016-02-05	O	01005012				0.069640995	1		0	0
1		2015-02-06	0		2016-02-06	365	0.115234		0		0.115234192	0		0	0
1		2015-02-08	0		2016-02-08	365	0.114907		0		0.114907057	1		0	0
1		2015-02-08	0		2016-02-08	365	0.058356		0		0.058356495	0		0	0
1		2015-02-15	0		2016-02-15	365	0.068472		0		0.068471905	1		0	0

Data tables available monthly with the CUSUM charts!

ung			
Туре	Interactive CUSUM Charts (Google Vis)	Printable Static CUSUM Charts (PNG)	Data Tables (HTML)
Graft Survival	Go	Go	Go
Patient Survival	Go	Go	<u>Go</u>
Graft Survival	Go	<u>Go</u>	<u>Go</u>
Patient Survival	No Report	No Report	No Report
Offer Acceptance	<u>Go</u>	No Report	No Report
	Type Graft Survival Patient Survival Graft Survival Patient Survival	Type Interactive CUSUM Charts (Google Vis) Graft Survival Go Patient Survival Go Graft Survival Go Patient Survival No Report	Type Interactive CUSUM Charts (Google Vis) Printable Static CUSUM Charts (PNG) Graft Survival Go Go Patient Survival Go Go Graft Survival Go Go Patient Survival No Report No Report

How to use pretransplant expected workbooks?

Will be covered in detail on Friday by Andrew Wey.





Transplantation

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