The New MPSC Transplant **Performance Metrics: Are You Ready?**

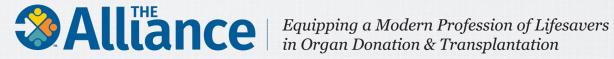
TODAY'S PANELISTS



Lindsay Smith MSN, RN Transplant Quality Director Vanderbilt University Medical Center



Jon Snyder PhD. MS Director, SRTR Director of Transplant Epidemiology, Hennepin Healthcare Research Institute



Tuesday, February 28, 2023, 3:00pm - 4:00pm ET

Continuing Education Information Evaluations & Certificates

Nursing

The Organ Donation and Transplantation Alliance is offering **1.0 hours of continuing education credit** for this offering, approved by The California Board of Registered Nursing, Provider Number CEP17117. No partial credits will be awarded. CE credit will be issued upon request within 30 days post-webinar.

CEPTC

The Organ Donation and Transplantation Alliance will be offering **1.0 Category I CEPTC credits** from the American Board for Transplant Certification. Certified clinical transplant and procurement coordinators and certified clinical transplant nurses seeking CEPTC credit must complete the evaluation form within 30 days of the event.

Certificate of Attendance

Participants desiring CE's that are not being offered, should complete a certificate of attendance.

- Certificates should be claimed within 30 days of this webinar.
- We highly encourage you to provide us with your feedback through completion of the online evaluation tool.
- Detailed instructions will be emailed to you within the next 24 hours.
- You will receive a certificate via email upon completion of a certificate request or an evaluation
- Group leaders, please share the follow-up email with all group participants who attended the webinar.





Deanna Fenton Senior Manager, Program Development and Operations

⊗Alliance **Need Assistance?**

Contact Us via Zoom Chat, or info@organdonationalliance.org 786-866-8730

Meet Our Moderator



Jenna Lawson MS Abdominal Transplant Quality Consultant

VANDERBILT WUNIVERSITY MEDICAL CENTER

Meet Our Presenters



Jon Snyder PHD, MS

Director, SRTR; Director, Transplant Epidemiology, Hennepin Healthcare Research Institute





Lindsay Smith
RN, MSN
Transplant Quality Director





The New MPSC Transplant Performance Metrics: Are You Ready?

Jon Snyder, PhD

Director, Scientific Registry of Transplant Recipients Director, Transplant Epidemiology Chronic Disease Research Group Hennepin Healthcare Research Institute

February 28, 2023

Disclosures



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Editorial Board Participation:

American Journal of TRANSPLANTATION



Presentation Goals

Understand the 4 metrics the Membership and Professional Standards Committee is using to assess transplant program performance.

Identify how to find and interpret the risk adjustment models used to adjust program performance metrics.

Understand the triggers for MPSC review, i.e., flagging rules.

The 4 "New" Metrics Being Used by the OPTN's Membership and Professional Standards Committee (MPSC)

Pretransplant Metrics

Posttransplant Metrics

Pre-transplant (waitlist) mortality rate ratio

Offer acceptance rate ratio

90-day graft failure rate ratio

Conditional 1year graft failure rate ratio



Pretransplant (waitlist) Mortality Rate Ratio

Pretransplant (Waitlist) Mortality



Question Being Addressed:

On days when a patient is not transplanted, are patients listed by this program more/less likely to die compared with similar patients nationally?

Pretransplant (Waitlist) Mortality Rate Ratio: Methodology

Compares Observed (O) deaths to expected (E) deaths from the time the patient is listed until they are transplanted.

O = Observed Deaths Between Listing and Transplant.

E = Expected Deaths Between Listing and Transplant.

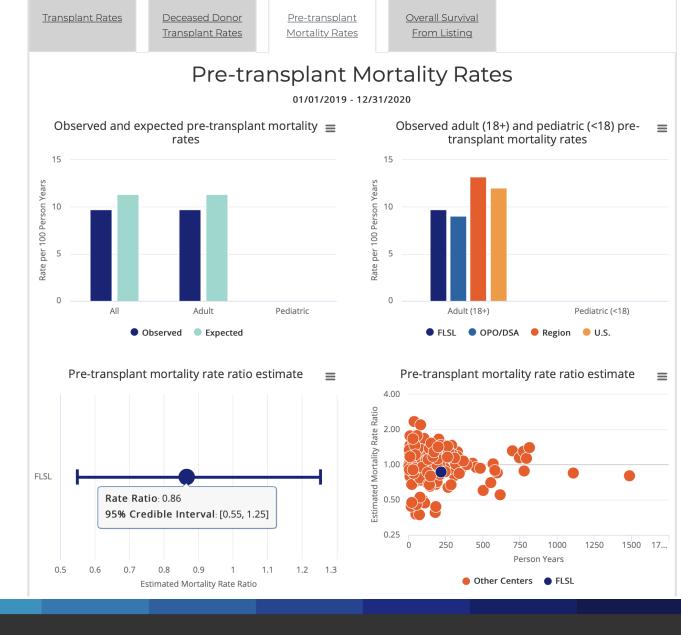
Waitlist Mortality Rate Ratio = (O+2)/(E+2).

Pretransplant (Waitlist) Mortality Rate Ratio: Methodology

Evaluation Window	2-year evaluation window
Days evaluated	Any day within the window from waitlisting until transplant.
Post-removal deaths	Deaths are evaluated post-removal unless transferred to another program. If a person is removed for reason of recovery (transplant no longer needed),

SRTR Reporting

Pre-transplant mortality rates are reported with detail by adult and pediatric candidates (if applicable) and comparisons to outcomes within the donation service area (DSA), the OPTN region, and comparisons to all other programs.



Pretransplant Workbooks are Available to Perform Subgroup Analyses Overall Waitlist Mortality Rate

Available on the SRTR Secure Site.

Programs can view evaluations within subgroups of choice. Example shown at right is by candidate age groups

Overall Waitlist Mortality Ra	ate
All candidates	
Number of Candidates	145
Observed Deaths (O)	9
Expected Deaths (E)	5.96
Overall Waitlist Mortality Rate Ratio	1.38
Candidate age: <40	
Number of Candidates	43
Observed Deaths (O)	2
Expected Deaths (E)	0.94
Overall Waitlist Mortality Rate Ratio	1.36
Candidate age: 40-<60	
Number of Candidates	46
Observed Deaths (O)	4
Expected Deaths (E)	2.01
Overall Waitlist Mortality Rate Ratio	1.5
Candidate age: ≥60	
Number of Candidates	55
Observed Deaths (O)	3
Expected Deaths (E)	3.01
Overall Waitlist Mortality Rate Ratio	1



Offer Acceptance Rate Ratio

Offer Acceptance Rate Ratio



Question Being Addressed:

Given the types of offers received to the specific candidates, does this program accept offers at a rate higher/lower than national experience for similar offers to similar candidates?

Offer Acceptance Rate Ratio: Methodology

Compares Observed (O) offer acceptances to expected (E) offer acceptances.

O = Observed Offer Acceptances

E = **Expected Offer Acceptances**

Offer Acceptance Rate Ratio = (O+2)/(E+2).

Offer Acceptance Rate Ratio: Methodology

Evaluati on Window	1-year evaluation window
Offers that are NOT evaluate d	1.Bypassed offers2.Match run had no acceptances3.Offer occurred after the organ was accepted*4.Duplicate offers across multiple match runs**5.Offers to multi-organ candidates***
Notes Alliance 02/28/2023	*Kidney offers declined under the Kidney Accelerated Placement Program may be included after the last acceptance if normal allocation restarted. **Kidney allocation may offer candidates dual kidneys after the single kidney. In this situation, the second offer to the candidates CURNTIFIC REGISTRY OF

Consider Offer Acceptance





Subgroups Available

Donor Characteristics	History of Acceptance	Number of Offers	Number of Acceptances	Expected Acceptances	Offer Acceptance Ratio
Overall	Above Average	99	22	9.00	2.18
PHS Increased Infectious Risk	Above Average	31	9	2.00	2.75
Ejection Fraction (Less Than or Equal to 50)	Average	6	1	0.88	1.04
Donor Age (> 40)	Above Average	30	6	1.43	2.34
Over 50 Offers	Somewhat Above Average	17	3	0.60	1.92
Over 500 Miles Away	Above Average	30	7	1.86	2.33
Weekend	Above Average	24	5	1.31	2.12



Subgroups Available

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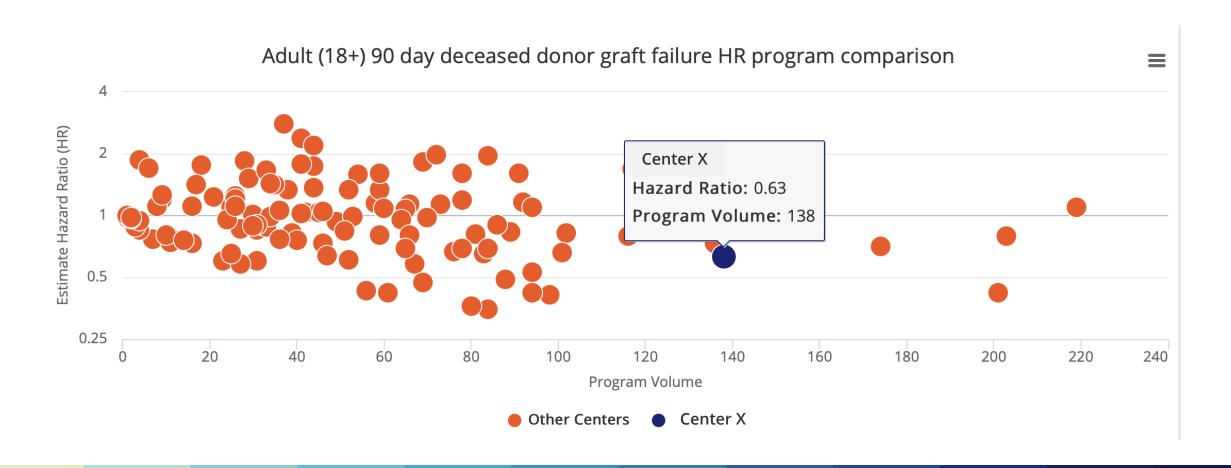
90-day and Conditional 1-Year Graft Survival

90-Day and Conditional 1-Year Graft Survival

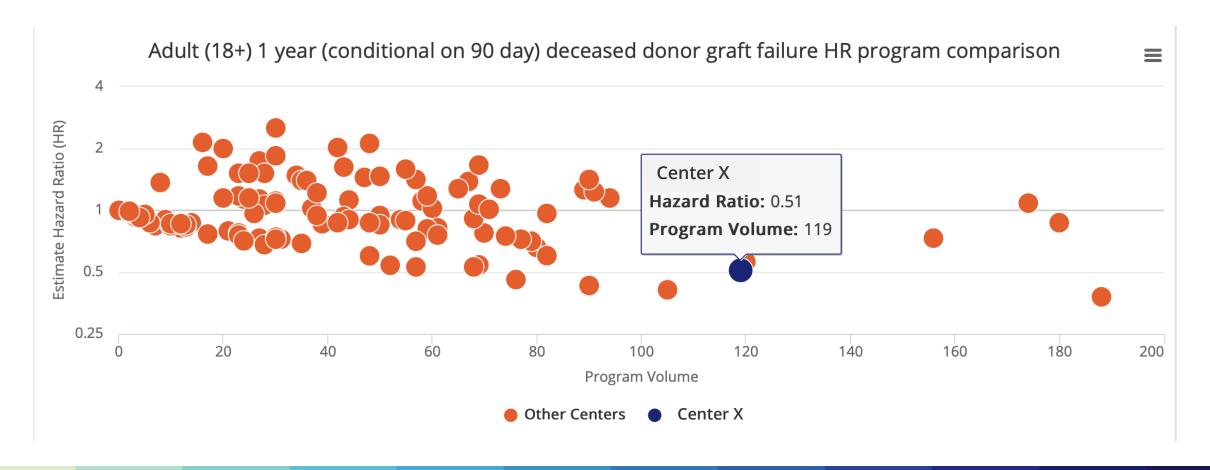


Conditional 1-year: Conditional on graft survival to day 90, evaluates graft survival from day 90 to 1-year.

90-day Heart Graft Failure Rate Ratios



Conditional 1-Year Heart Graft Failure Rate Ratios



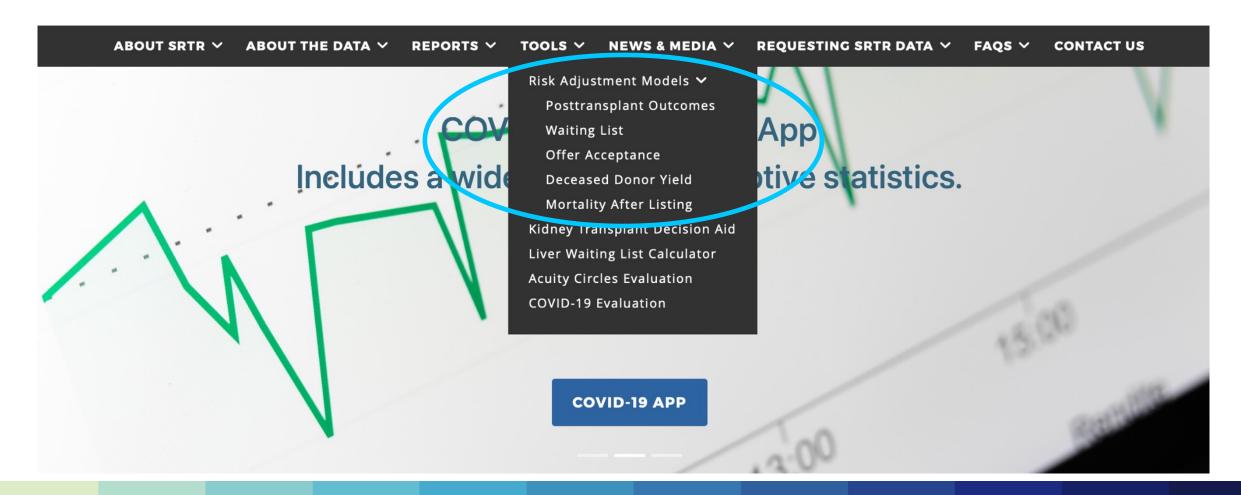


FIND & COMPARE TRANSPLANT PROGRAMS

Select Organ 📀

Search by Postal Code or Program Name (optional)

SEARCH



Using Bayesian Assessments to Determine Performance Thresholds

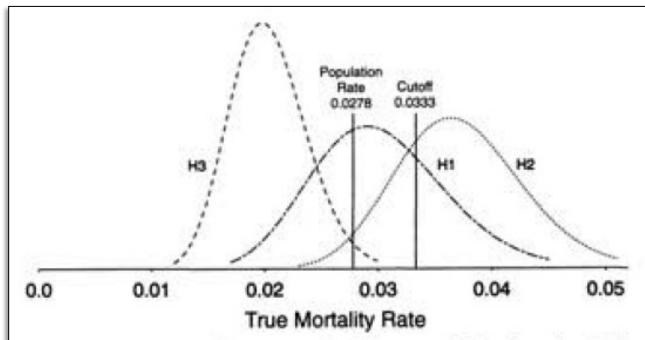


Figure 2. True mortality rate probability graphs for three hospitals (H1, H2, H3) in New York State (1). Vertical lines indicate the population rate and the chosen standard; curves represent the probability densities that determine the chance that the mortality rate at each hospital exceeded the 3.33% standard.

Bayesian models allow us to estimate the probability distribution for the performance of a particular program, which can be compared to identified thresholds or national norms

Christiansen CL, Morris CN. *Ann Intern Med*. 1997;127:764.

MPSC Screening Rules

A program will be reviewed for its waitlist mortality rate ratio if:

The probability is >50% that the program's waitlist mortality rate ratio is >1.75.

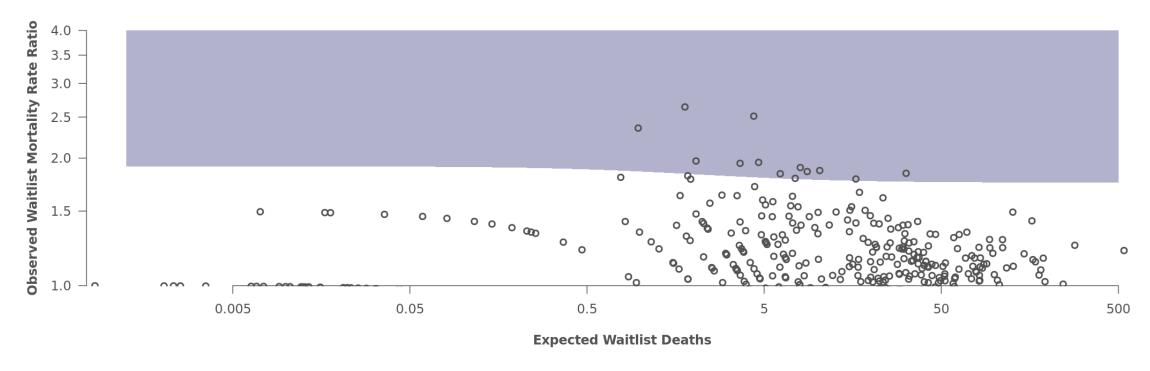
In other words, there is more than 50% probability that the program's mortality rate is at least 75% higher than expected.

MPSC Screening Rules – Adult Evaluations

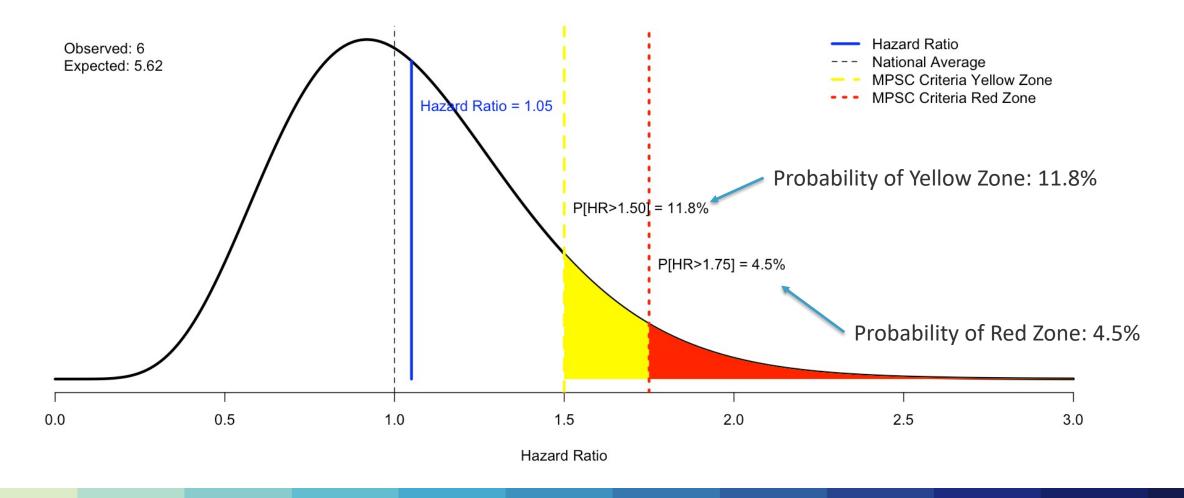
Performance Metric:	Red-Zone Boundary:	Probability of being above the Boundary:
Pretransplant Mortality Rate Ratio	>1.75	>50%
Offer Acceptance Rate Ratio	<0.30	>50%
90-Day Graft Failure Rate Ratio	>1.75	>50%
Conditional 1-year	>1.75	>50%

MPSC's Pretransplant Mortality Screening Rule Visualized

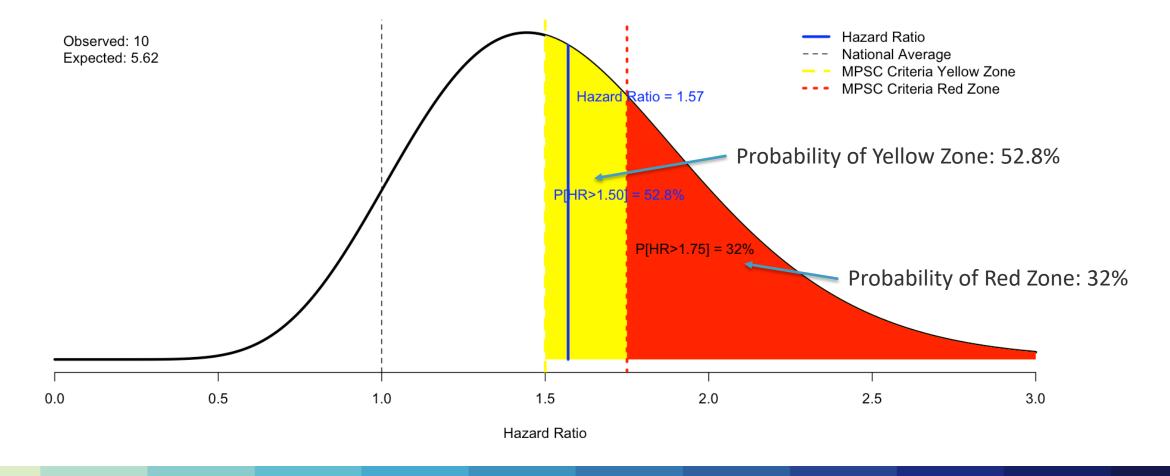
Adult Waitlist Mortality
WMRR Criterion: 50% Prob. WMRR > 1.75



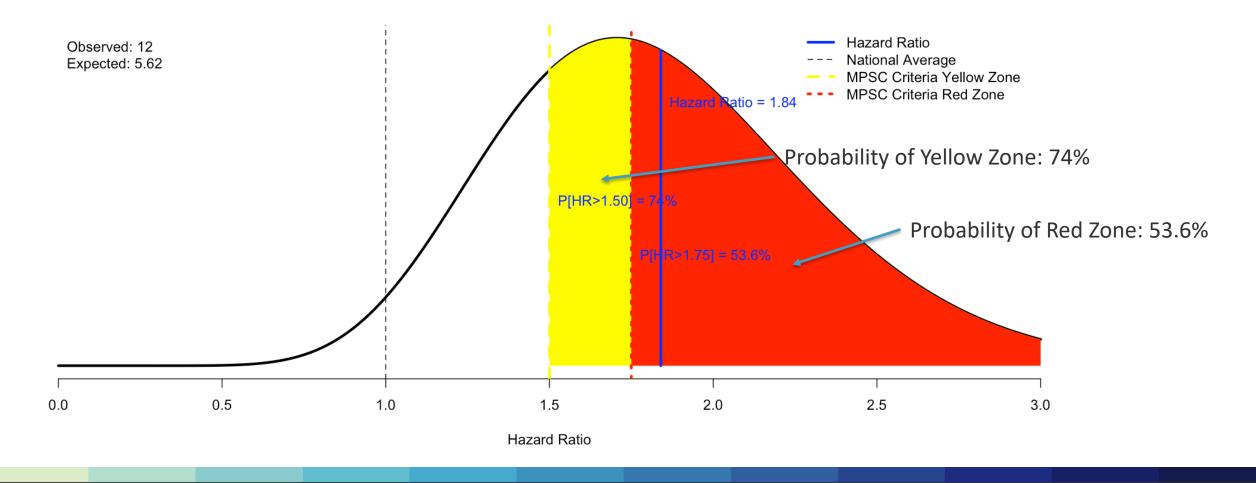
Visualizing this program's MPSC Evaluation



What if the program experienced 4 More Deaths (10 total)?

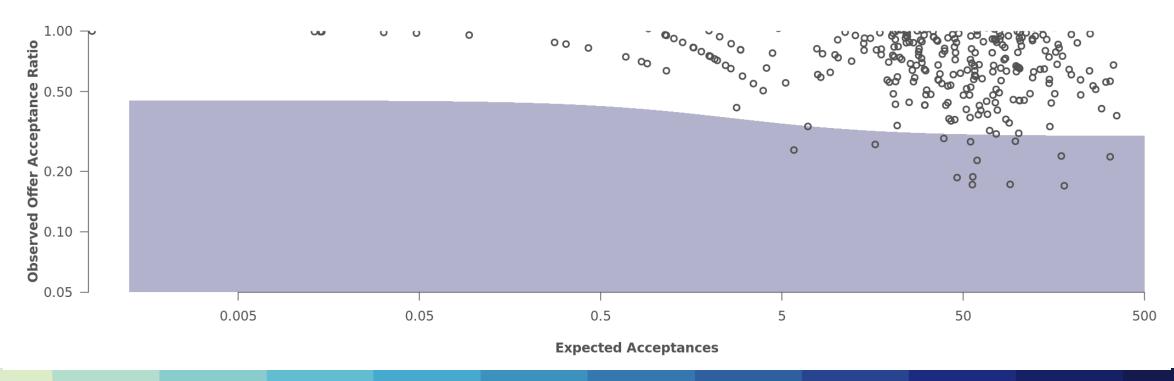


What if the program experienced 6 More Deaths (12 total)?



MPSC's Offer Acceptance Screening Rule Visualized

Adult Offer Acceptance
OAR Criterion: 50% Prob. OAR < 0.3





Thanks!

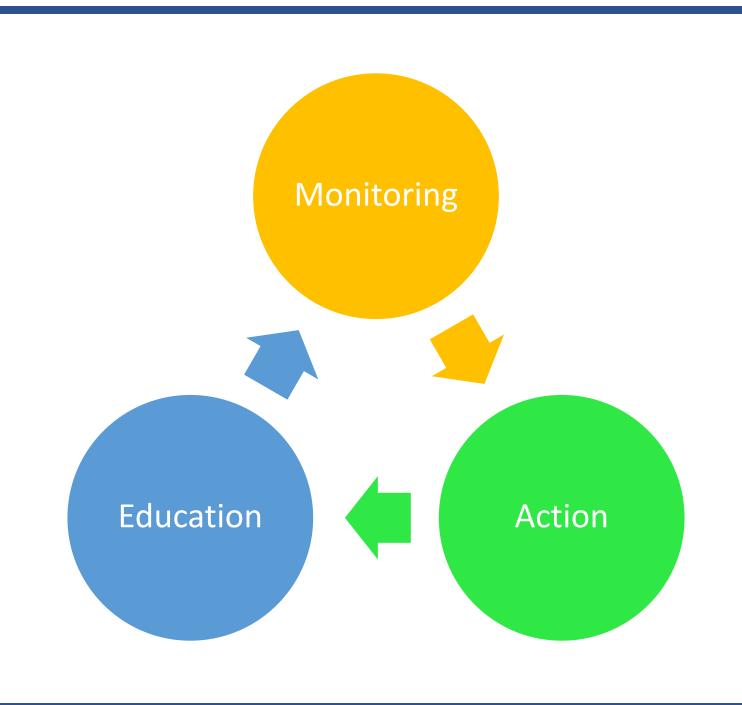
My email: <u>Jon.Snyder@cdrg.org</u> General SRTR Help: <u>SRTR@SRTR.org</u>

Jon Snyder, PhD

Director, Scientific Registry of Transplant Recipients Director, Transplant Epidemiology Chronic Disease Research Group Hennepin Healthcare Research Institute

February 28, 2023





Post- Transplant Outcomes

EDUCATION: Where does this data come from?

YOU Your TIEDI Data TCR/TRR



EDUCATION: Understand the components being reported

Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2019 and 03/12/2020, and 06/13/2020 and 12/31/2021 Deaths and retransplants are considered graft failures

rollow-up ends on 3/12/2020 for recipients transplanted prior to 3/13/2020	TNVU	U.S.
Number of transplants evaluated	219	6,501
Estimated probability of surviving with a functioning graft at 90 days (unadjusted for patient and donor characteristics)	94.00%	94.57%
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	94.41%	-
Number of observed graft failures (including deaths) during the first 90 days after transplant	13	340
Number of expected graft failures (including deaths) during the first 90 days after transplant	11.59	-

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

MPSC Post-transplant Review Criteria (not public)* Transplants performed between 07/01/2019-03/12/2020 and 06/13/2020-12

Adult (18+) Graft Survival

	Oran	Ourvivar
	90-day Survival	1-year conditional on 90-day Survival
Number of transplants	219	188
Observed events	13	1
Expected events	11.589	5.991
Hazard Ratio (HR)	1.104	0.375
Probability HR > boundary**	0.022	0.000
Identified for review	No	No
Identified in Yellow-Zone	No	No

Cheat Sheet

Identified for review

Centers are identified for review if there is a greater than 50% probabilty of meeting any of the following criteria

	Adult	Pediatric	
90-day post transplant mortality hazard ratio exceeds:	1.75	1.6	
1-year conditional on 90-day graft survival hazard ratio exceeds:	1.75	1.6	
Pre-Transplant mortality hazard ratio exceeds:	1.75	1.6	
Offer acceptance rate hazard ratio is lower than:	0.3	0.35	

Identified for yellow-zone

Centers are identified for the Yellow-zone if there is a greater than 50% probabilty of meeting an of the following criteria

	Adult	Pediatric	
90-day post transplant mortality hazard ratio exceeds:	1.5	1.35	
1-year conditional on 90-day graft survival hazard ratio exceeds:	1.5	1.35	
Pre-Transplant mortality hazard ratio exceeds:	1.5	1.5	
Offer acceptance rate hazard ratio is lower than:	0.4	0.45	



Estimated hazard ratio*

95% credible interval for the hazard ratio**

Teach this to someone else!

^{**} The 95% credible interval, [0.62, 1.73], indicates the location of TNVU's true hazard ratio with 95% probability. The best estimate is 10% higher risk of graft failure compared to an average program, but TNVU's performance could plausibly range from 38% reduced risk up to 73% increased risk.

EDUCATION: What tools are available?



Key to Success: Cracking the Expected calculation SECURE SRTR- Expected Survival Worksheets



Key to Success: Understanding Risk Adjustment SRTR.org (updated every 6 months)



How is risk adjustment utilized at your transplant center

Outcome	Predictor	Level	Coefficient
Patient	Recipient Age at Transplant	Missing	-0.453294934
Graft	Recipient Age at Transplant	Missing	-0.430908417
Graft	Donor Anti-HBC	Positive	-0.343480459
Graft	Donor Anti-HBC	Missing	-0.343480459
Graft	Donor Age (yr)	Apply to < 15 (Left LS)	-0.202269062
Graft	Donor Age (yr)	Missing	-0.202269062
Graft	Donor Meds: Vasodil	Yes	-0.191383153
Graft	Donor Meds: Vasodil	Missing	-0.191383153
Graft	Recipient Pulmonary Wedge Pressure (mean)	Missing	-0.143135764
Patient	Recipient Pulmonary Wedge Pressure (mean)	Missing	-0.114890695
Patient	Donor Cause of Death	Other	-0.109812421
Patient	Donor Cause of Death	Missing	-0.109812421
Graft	Recipient BMI	Apply to < 18 (Left LS)	-0.105866475
Patient	Candidate Prev Malignancy (Any)	Yes	0.109314029
Graft	Recipient Most Recent Total Bilirubin	Apply to > 1 (Right LS)	0.116978411
Patient	Donor to Recipient Weight Ratio	Apply to < 0.8 (Left LS)	0.121220885
Graft	Candidate Prev Malignancy (Any)	Yes	0.125274877
Patient	Donor transfusions (number) during current hospitalization	Greater Than Ten	0.125842029
Patient	Recipient Ventilator	Yes	0.131623001
Patient	Recipient LVAD	Yes	0.145075862
Graft	Donor transfusions (number) during current hospitalization	Greater Than Ten	0.165296989
Graft	Recipient Most Recent Total Bilirubin	Apply to > 1.4 (Right LS)	0.16748199
Graft	Recipient LVAD	Yes	0.182732298
Graft	Recipient Transfusions since Listing	Yes	0.189569574
Patient	Recipient Most Recent Total Bilirubin	Apply to > 1 (Right LS)	0.21936622
Patient	Recipient Transfusions since Listing	Yes	0.237441429
Graft	Recipient Most Recent Serum Creatinine	Apply to > 0.9 (Right LS)	0.258097007
Patient	Recipient Most Recent Serum Creatinine	Apply to > 0.9 (Right LS)	0.284143405
Graft	Donor History of Cancer	Yes	0.2917887
Graft	Donor Blood Type	AB	0.294137689
Patient	Donor History of Cancer	Yes	0.302508211
Graft	Recipient Dialysis since Listing	Yes	0.416008546
Patient	Recipient Primary Diagnosis	Congenital Heart Disease	0.439784296
Patient	Recipient Dialysis since Listing	Yes	0.477697974
Graft	Recipient Ventilator	Yes	0.490040629
Graft	Recipient Primary Diagnosis	Congenital Heart Disease	0.559071086
Graft	Recipient Previous Transplant	Yes	0.735568707
Patient	Donor to Recipient Height Ratio	Apply to > 1.02 (Right LS)	0.752597728
Graft	Donor to Recipient Height Ratio	Apply to > 1.02 (Right LS)	1.881498338
Patient	Donor to Recipient Height Ratio	Apply to > 1.04 (Right LS)	2.067462916
Graft	Recipient Most Recent Serum Creatinine	Apply to < 0.6 (Left LS)	4.735292938
Patient	Recipient Most Recent Serum Creatinine	Apply to < 0.6 (Left LS)	5.344645427

MONITORING: Outcome Modeling 101

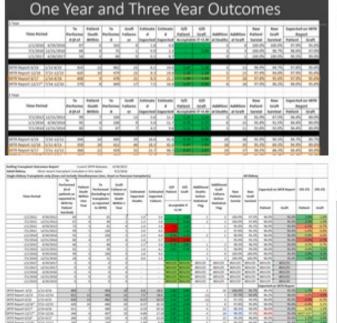
- **Fact 1-** You know your transplant center:
 - Transplant volume
 - Deaths/ Graft Failures
- **Fact 2-** You don't have to be a statistician to monitor your outcomes
- Fact 3- Don't wait till your house is on fire to start monitoring your outcomes



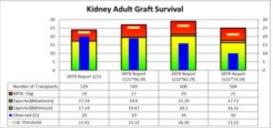
MONITORING:

- Benchmarks? What to measure?
 - MPSC Flagging Criteria?
 - Center of Excellence target?
 - National comparison?
- Find the right model for your center size, your resources etc.
- Frequency- How often are your outcomes reviewed and who is seeing them?

MONITORING: Everyone has to start somewhere



Macroure	16.0		16.00	26.00
Cell Treashore	20.80	0.00	202	2564
Swirer Treature	20	.39		26
0.0	-189	4.0	-180	-1.9
6/8	1.0	1.4	1.0	100
Adult Petient Sundad	SETS Report TOP SEEDS	SATE RADIO STOPPINGS	SETS Report 1/SPRINE	\$678 August 1/2072-2
Number of Transplants	107	97	761	364
Onerei (i):	Miles h	9740908	FIGNER.	FIRMING.
Secret III	1079A/III	H1999(828)	97 SQN(7.94)	66.00%(6.0%)
Marrien	38.49	18.00	19.89	11.19
(all freedom	10.00	0.764	16161	1984
Septime Temporary	18	0.		18
0-6	-4.86	1/9	100	410
0.11	100			



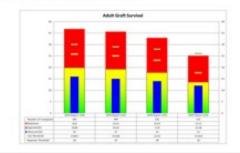
SRTR Public Release Date	VU	MC (Observe	id)	VUI	K (Expec	(bea)
	1 Month	1 Year	3 Years	1 Month	1 Year	3 Years
Annuary 2013 (N+360,120)	98.61%	95.00%	85.94%	98.27%	95.00%	88.25%
July 2013 (N=981, 827)	58.16%	95.54%	87.46%	98.36%	95.27%	88.04%
January 2034(N-400, 324)	98.50%	97.12%	88 58%	98.53%	95.48%	87.87%
	44 944	96.67%	69.73%	90 67%	96.70%	67.75%
July 2014 (N=412,301)	98.79%	99.97%	49.77%	70.00	35,7276	40.29%
July 2014 (N=412.101)			avival by Time Sin		95.72%	0.25%
SHTR Public Release Date	Combine		ervival by Time Sin	co Transplant	K (Expec	
	Combine	nd Patient Sc	ervival by Time Sin	co Transplant		
	Combine	nd Patient So MC (Observe	evival by Time Sin	ce Transplant	AC (Expec	wel)
SRTR Public Release Date	Combine VUI 1 Month	nd Putlent So MC (Observe 1 Year	ervival by Time Sin	ce Transplant VUI 1 Month	AC (Expect	ted) 3 Year

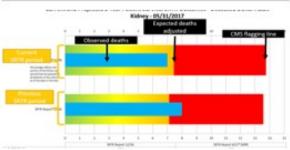
One Year Outcomes

Data current as of 12/3/18

	3009-49907	NAME OF TAXABLE	LOOP HOUSE	7559-12559
Adult Graft Survival	SETE Aspect Notice (Inch.)	SETT BOOK LITTLES	SETS Report Visites As	SATE Report USEN'S IN
Rumber of Transparers	.00	149	101	68
Deserved	96500	MANGE	M/Rhon	M (Marco)
Supernet (f)	MARKET THE	85.7574(35.36)	10.00%(27.0)	98,090,000
Welmon	16.6	20.00	11.90	28.00
Del Terestoral	2647	20.000	28.06	17104
Structure Treature			18	
9.4	-0.00	4.9	-0.00	-138
0/4	141	4.9	479	100
Adult Patient Survival	SPER Region TOWNSON	SETE Report S/SP/8199-	SETS Report T/SPTS AN	3676 Report 1/39775.18
Number of Transplants	105	367	362	107
Discoveré (C)	96107675	MANUE.	97 LPN(13)	#1 (Ph/CC)
Separated (E)	41799(839)	11305,030	M1006196	W-1994-00
Macroyn	18.40	(6.0)	31.88	11.04
Gel Threathaire	10.000	95.764	9.10	1104
Seuscian Timeshord	165		10	10
0.4	-0.00	639	3.96	4.60
	186			

One Year Graft Survival







You have 3 seconds... what are your outcomes?

MONITORING:



ACTION:



Cone of caution! When you forecast you can see trouble on the horizon



A proactive approach is always preferred



Do a formal review as a transplant center:

- Review all deaths & graft failures (MPSC tool)
- Develop an honest **ROBUST** corrective action plan:
 - Look at programmatic issues
 - Quality Review Process
 - Policies and Protocols

Mortality/Graft Fallure Synopsis

Name	Transplant Date	
MRN	Organ(s) Graft #	
DOB		
Primary Surgeon Primary Physician	Death Date	
Primary Physician	Graft Fallure Date	
PRE-TRAN SPLANT		
WAITLIST HISTORY		

Organ Offer Acceptance Metric

EDUCATION: Where does this data come from?

YOU

Recovery

On every patient that is listed

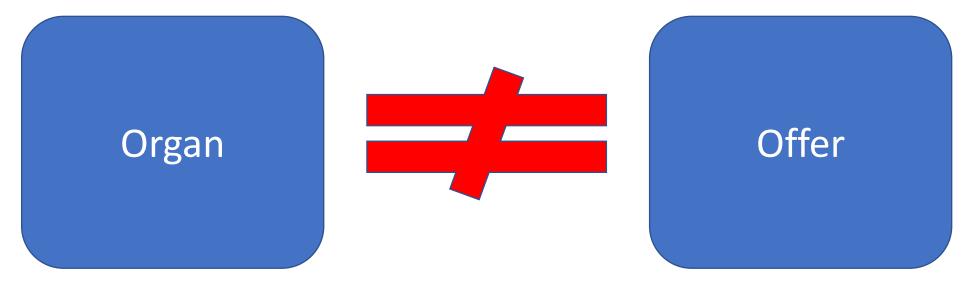
Infectious Diseases	
Accept a Hepatitis B Core antibody positive donor?	Yes
Accept an HBV NAT positive donor?	No
Accept an HCV antibody positive donor?	Yes
Accept an HCV NAT positive donor?	Yes

,	
Maximum acceptable warm ischemic time:	60 minutes
Maximum acceptable cold ischemic time:	24 hours



Do you know what you standard listing criteria is? When was the last time this was reviewed?

EDUCATION: Let's really break down an "offer"

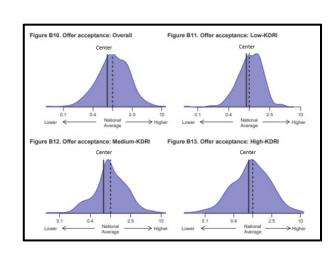


A declined organ is not accepting 1 organ

A declined offer is EACH candidate on your list that you declined an organ for...large list...potential for a lot of declined OFFERS

EDUCATION: Understand the components being reported

MPSC Pre-Transplant Review Criteria (not public)* Offer acceptance between 07/01/2021 and 06/30/2022 Adult (18+) Offer Acceptance Number*** 32,452 Observed events 193 Expected events 242,400 Hazard Ratio (HR) 0.798 Probability HR > boundary** 0.000 Identified for review No Identified in Yellow-Zone No



Cheat Sheet

	-zone		
Centers are identified for the Yellow-zone if there is a gre of the following criteria	eater than 50% prob	babilty of meetin	ig ar
	Adult	Pediatric	
90-day post transplant mortality hazard ratio exceeds:	1.5	1.35	
1-year conditional on 90-day graft survival hazard ratio exceeds:	1.5	1.35	
Pre-Transplant mortality hazard ratio exceeds:	1.5	1.5	
Offer acceptance rate hazard ratio is lower than: Identified for revie		0.45	
Identified for revie Centers are identified for review if there is a greater than 3	ew		ie
	ew		e
Identified for review of there is a greater than stollowing criteria 90-day post transplant mortality hazard ratio	BW 50% probabilty of n	neeting any of th	e
Identified for revie Centers are identified for review if there is a greater than :	BW 50% probabilty of n Adult	neeting any of the Pediatric	ie.
Identified for review Centers are identified for review if there is a greater than stollowing criteria 90-day post transplant mortality hazard ratio exceeds: 1-year conditional on 90-day graft survival hazard	ew 50% probabilty of n Adult 1.75	neeting any of the Pediatric 1.6	te

EDUCATION: What tools are available?



Key to Success: Let SRTR do the work for you! SECURE SRTR- Offer Acceptance Table



Key to Success: CARE about the CARES TOOL

UNOS VISUAL ANALYTICS- Center acceptance & refusal evaluation tool

- Access unique data like TRR & TRF data on organs your center did not transplant
- Basically, everything you need to know at your fingertips



Key to Success: Get creative with your offer capability OPTN Visual Analytics- Offer Filter Explorer

- Kidney only at this time (fingers crossed for expansion)
- Create combo filters to drill down on what you really want
- Provide recommendations based on your center's behavior



MONITORING: Don't overcomplicate it

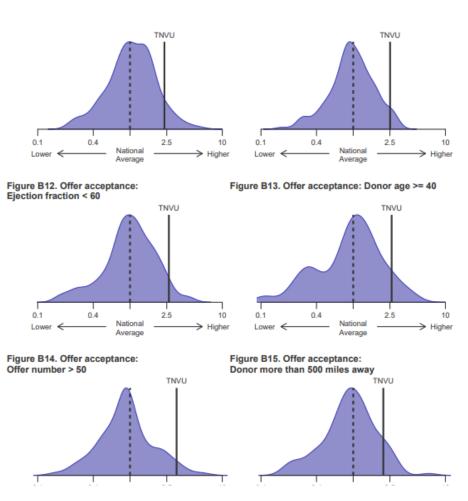
- SRTR Secure site releases a monthly offer acceptance table
- We monitor the changes we see month to month

October 2022 Monthly CUSUM: Offers from 1/30/22 – 6/1/22

Donor Characteristics	History of Acceptance	Number of Offers	Number of Acceptances	Expected Acceptances	Offer Acceptance Ratio	Since 9/1
Overall	Somewhat Below Average	6974	61	71.44	0.86	+0.02
Low-KDRI	Average	896	26	23.96	1.08	+0.07
Medium-KDRI	Somewhat Below Average	5064	31	43.40	0.73	-0.01
High-KDRI	Average	1014	4	4.09	0.99	-0.06
DCD Donor	Somewhat Below Average	3409	12	19.53	0.65	+0.06
PHS Increased Infectious Risk	Below Average	1829	15	25.26	0.62	-0.05
HCV+	Somewhat Below Average	1540	17	24.35	0.72	-0.08
Weekend	Average	2589	25	26.09	0.96	+0.02

MONITORING: How do we compare?

SRTR program specific data provides a great visual to see where your program is at compared to the national rate



ACTION:

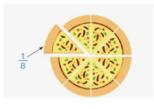


Identity Crisis: Who are we as a center? Does our data reflect our perception?



Review the data:

- Utilize CARE tool for opportunities to tighten criteria
- Review standard listing criteria
- Decline conference for transparency/ reviewing practice



Secret of the Denominator:

Quick check- how large is your denominator? Large= your criteria is wide open!

ACTION: Look for opportunities



Any area your transplant center wants to increase organ offers?

- DCD
- KDPI
- HCV



Consider hot lists- who are good candidates for certain organs?

Introducing The Alliance's **NEW!**



QUALITY CORNER RELEVANT QUALITY-FOCUSED TOPICS IN TRANSPLANTATION

THE ALLIANCE INSIGHT
SERIES FOR DONATION
AND TRANSPLANT
PROFESSIONALS



The Alliance's Quality Corner will highlight a series of transplant quality-focused insights, tools, and resources that transplant centers can leverage to improve their practices and outcomes.



Topics of Focus Include:

Organ Offer Acceptance Rate Ratios: The New MPSC Metric Launch Date: February 2023

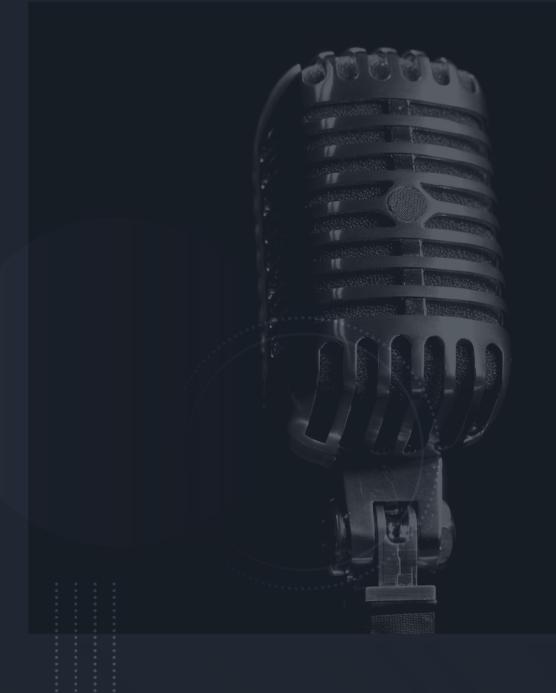


Additional Topic Recommendations Welcomed



Pre-transplant Mortality

*formerly know as waitlist mortality



Disclaimer: We are all working on this!

EDUCATION:



Key to Success: Knowledge is Power

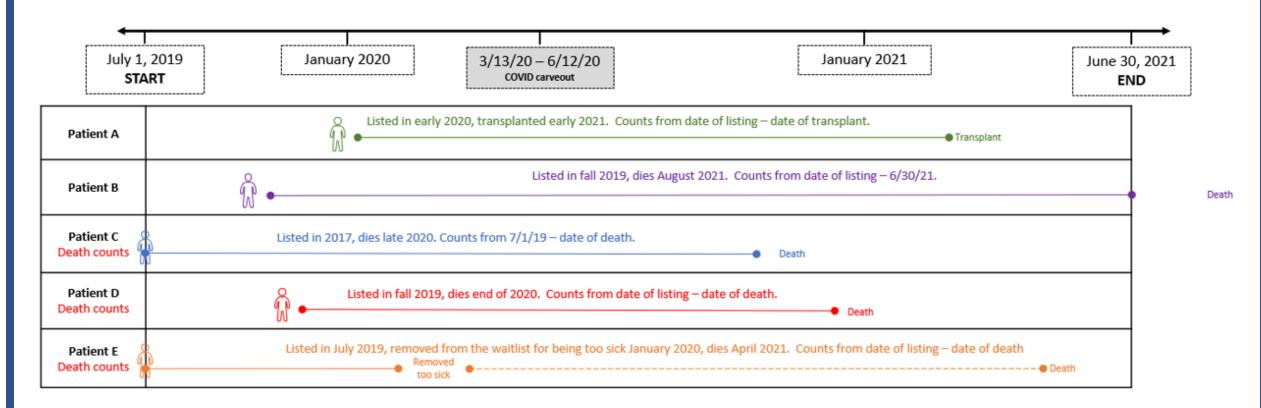
- Where does this data come from?
 A- You, the answer is always YOU
- Is this Risk Adjusted?
 A- Yes, the answer is always YES
- 3. How is this metric defined?A- Now that is the key question...

Element	Level	Coefficient
Candidate most recent serum creatinine	Apply to < 2 (Left LS)	-0.288413
Candidate dialysis	None	-0.176071
Candidate race: White	No	-0.109321
Candidate most recent serum creatinine	Apply to < 0.8 (Left LS)	0.146173
Candidate primary insurance	Medicare	0.245482
On the kidney waiting list	Yes	0.273314
Prior lung transplant	Yes	0.320379
Candidate primary diagnosis	Valvular heart disease	0.360072
Prior heart transplant	Yes	0.55818
Candidate on life support (TCR)	Yes	0.569154
Prior kidney transplant	Yes	0.779424
Candidate on ventilator (TCR)	Yes	0.891748
Candidate on ECMO	Yes	1.022698



How can I teach this to the rest of my transplant center?

EDUCATION: Wait what has changed??



Created by our very own amazing moderator: Jenna Lawson

MONITORING: Use what you got

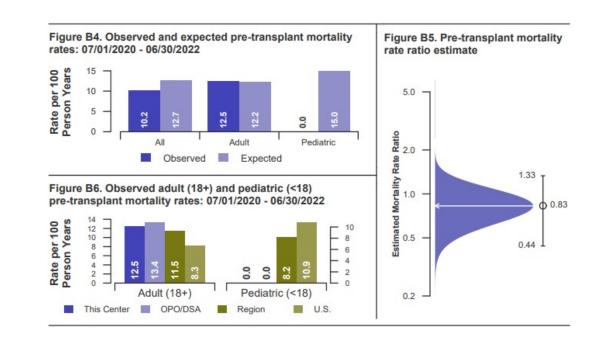
MPSC Pre-Transplant Review Criteria (not public)*

Pre-transplant mortality between 07/01/2020-03/12/2020 and 06/13/2020 Offer acceptance between 07/01/2021 and 06/30/2022

Adult (18+)

Pre-Transplant Mortality	Offer Acceptance	
36	817	
11	105	
10.769	40.600	
1.018	2.512	
0.013	0.000	
No	No	
No	No	
	Mortality 36 11 10.769 1.018 0.013 No	

^{*} This information is provided for your center's review only and will not appear on the publi www.srtr.org. The information listed here is that used by the Membership and Professiona (MPSC) to identify centers for review based on greater than 50% probability of meeting an (1) The center pre-transplant mortality rate ratio (HR) exceeds 1.75 - THIS CRITERION W CONSIDERED BY THE MPSC UNTIL 2024



⁽²⁾ The center offer acceptance rate ratio is lower than 0.3 for adults or 0.35 for pediatrics NOT BE CONSIDERED BY THE MPSC UNTIL 2023

⁽³⁾ The center 90-day post transplant graft survival hazard ratio exceeds 1.75 for adults or

⁽⁴⁾ The center 1-year conditional on 90-day post transplant graft survival hazard ratio exce for pediatrics

^{**} For offer-acceptance outcomes this is the probability the HR < boundary

^{***} For pre-transplant mortality this is the number of patients on the waitlist at the start of the acceptance, this is the number of offers made during the time period.

MONITORING: New challenges for modeling



Forecasting is hard due to the unknowns



How many people are we going to add to the list?

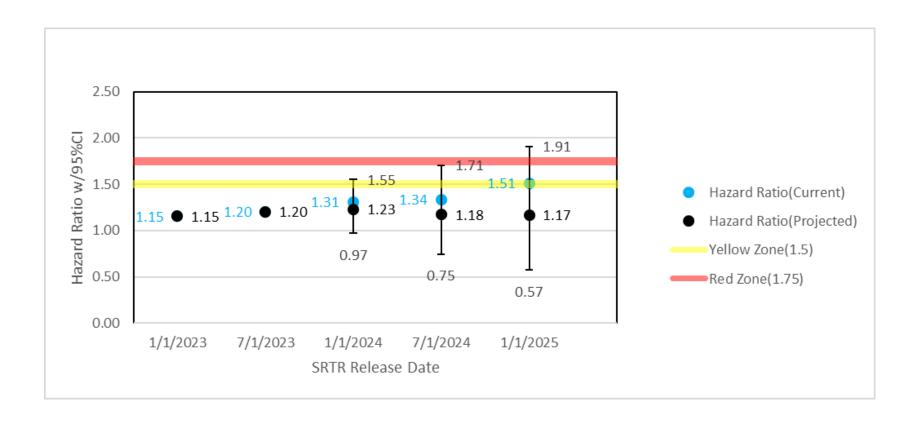


How many people are going die within the cohort time period?



How are we going to know when these patients die?

MONITORING: Sneak Peek





Rolling mortality rates, confidence intervals and average listings rates OH MY!

ACTION: Waitlist management



When was the last time you really looked at your waitlist? I bet you will find surprising data



Different organs and different programs will have very different issues to consider:

- Are we listing people TOO early?
- Are we listing appropriate candidates?
- How often are we reviewing our list?
 - What is our practice of removing from the list?
 - Over our age criteria?
 - Developed comorbidities?
 - Too well for transplant?



A great starting point: Review or create policies and protocols to drive your practice

Countdown to Success





Make it EASY-K.I.S.S









Look For Opportunities to Improve

Special Thank You to the entire transplant quality team at Vanderbilt.

A Special Thanks to Our Presenters



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Director, SRTR; Director, Transplant Epidemiology, Hennepin Healthcare Research Institute





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