

# Lung Transplant

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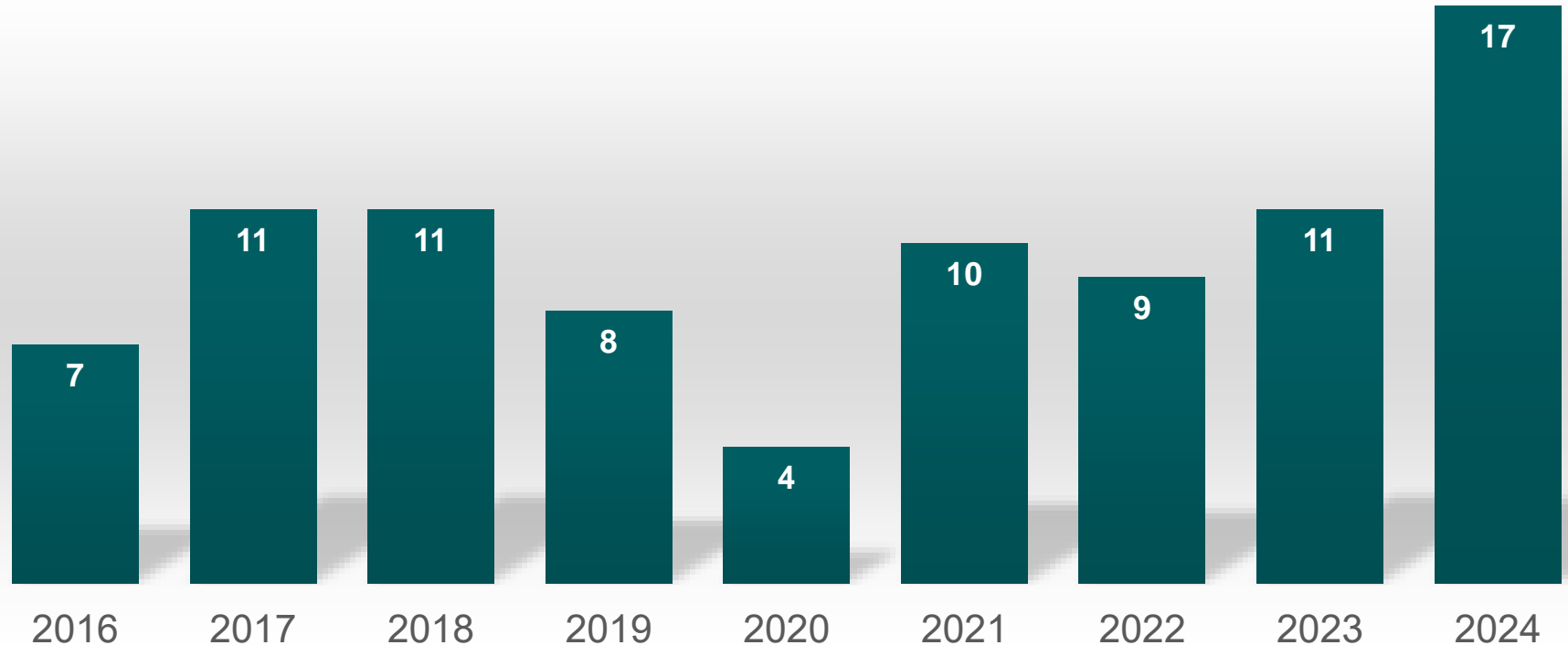
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# Disclosures

None



# Lung Transplant Volumes



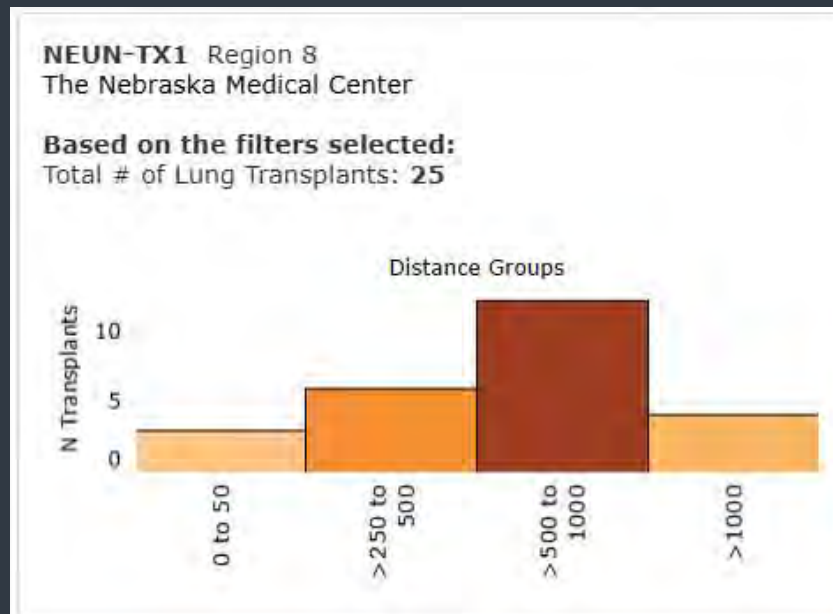
# Widening the donor pool



# OPTN Recovery and Usage Maps Report

## Lung Transplants 2/24/2023 to 2/22/2025

- NEUN mostly travels >500-1000 miles to recover donor lungs
- Importance of utilizing organ preservation systems for lung transplant programs

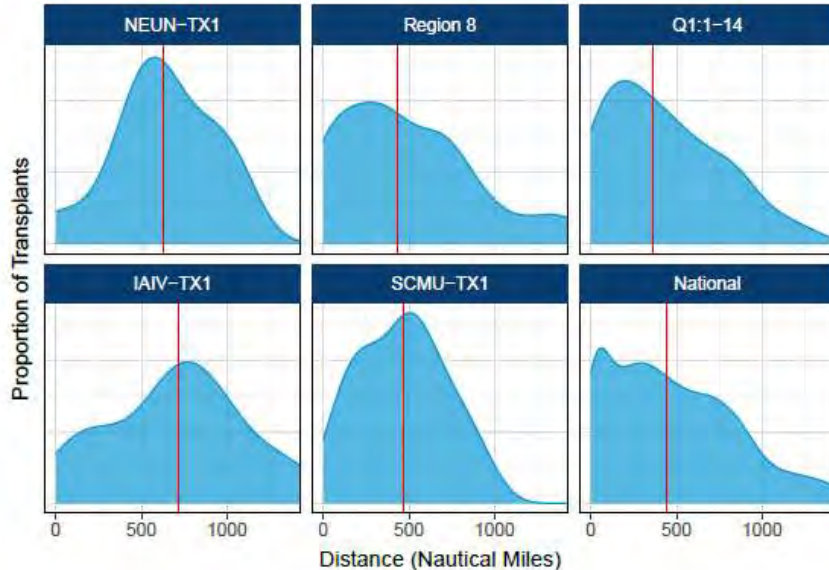


# Distance b/t Donor Hospital & Transplant Program

Benchmark Report Lung

NEUN-TX1 January 2025

Figure 11. Distance Between Donor Hospital and Transplant Program for Deceased Donor Transplants as of January 17, 2025



NEUN is traveling greater distance than Region 8 and National median

NEUN median

- 626 nautical miles

Region 8

- 432 nautical miles

National median

- 442 nautical miles

\*Data reflected from 10/1/2023 - 9/30/2024

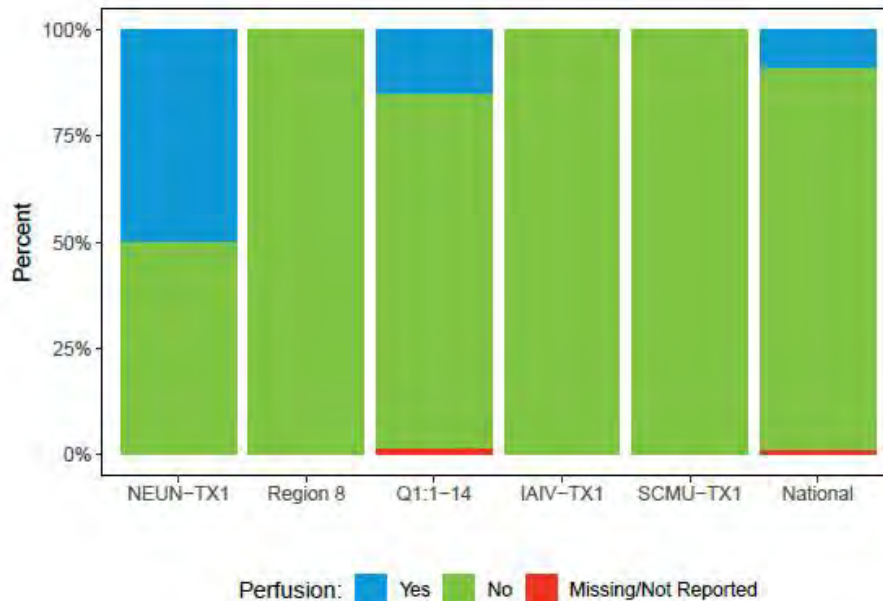


# Perfusing Lungs Prior to Transplant

Utilizing Ex-Vivo Perfusion when allocating lungs from significant distances

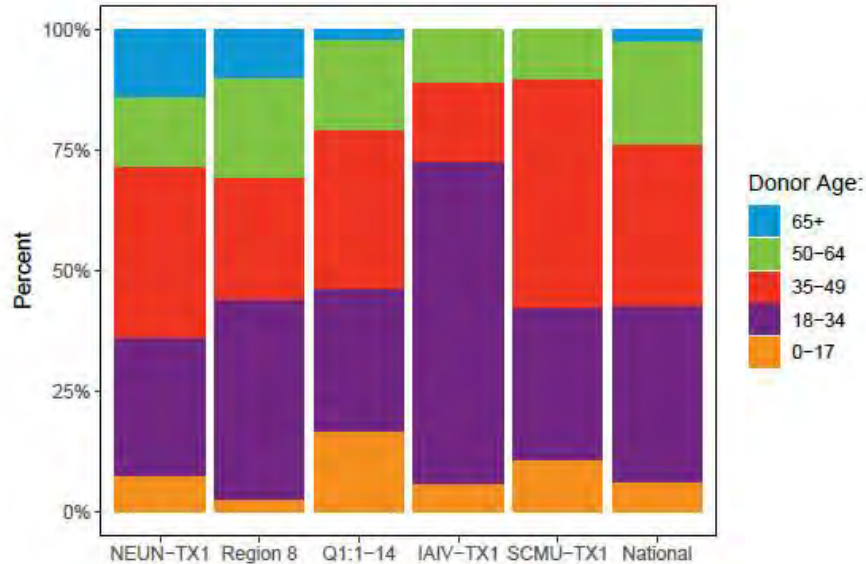
Expert Team of Dr. Urban and Perfusion Department

Figure 20. Deceased Donor Lung Transplants with Machine/Mechanical Perfusion as of January 17, 2025



	NEUN-TX1	Region 8	Q1:1-14	IAIV-TX1	SCMU-TX1	National
Yes	50.00%	0.00%	15.29%	0.00%	0.00%	9.12%
No	50.00%	100.00%	83.53%	100.00%	100.00%	89.94%
Missing/Not Reported	0.00%	0.00%	1.18%	0.00%	0.00%	0.93%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Figure 5. Deceased Donor Age as of January 17, 2025



# Donor Age

In January 2025 UNOS Benchmark Report reports that we are willing to accept great variety of donors in relation to age.





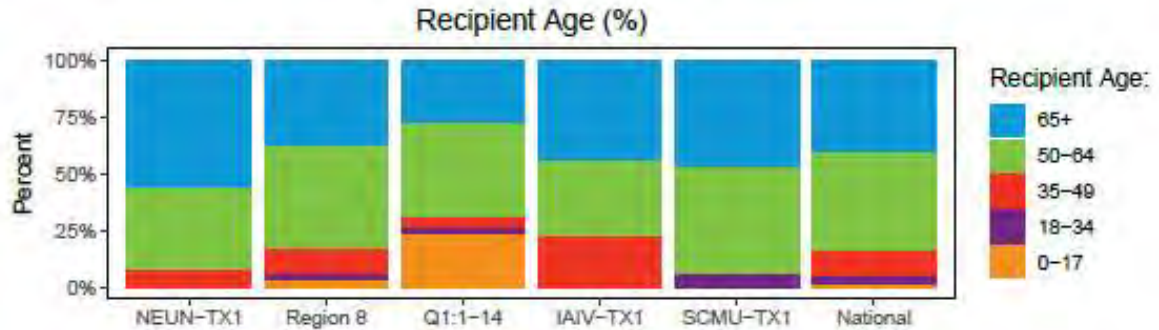
# Recipient Age

NEUN's lung transplant recipient demographic for this same time period was mostly in the age >65

*\*Illustrates accepting donors in similar age demographic when appropriate*

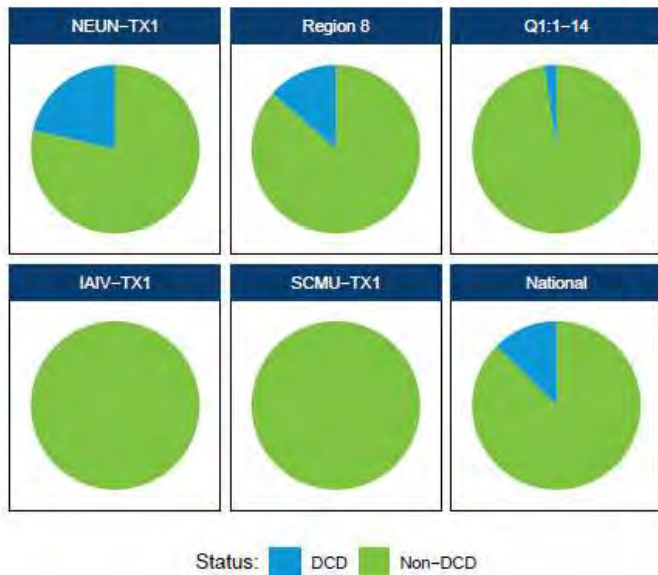
NEUN-TX1 January 2025

Figure 2. Recipient Demographics as of January 17, 2025



	NEUN-TX1	Region 8	Q1:1-14	IAIV-TX1	SCMU-TX1	National
0-17	0.00%	2.38%	22.35%	0.00%	0.00%	0.81%
18-34	0.00%	3.17%	3.53%	0.00%	5.26%	3.70%
35-49	7.14%	11.11%	4.71%	22.22%	0.00%	10.93%
50-64	35.71%	45.24%	41.18%	33.33%	47.37%	43.24%
65+	57.14%	38.10%	28.24%	44.44%	47.37%	41.31%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Figure 15. DCD/Non-DCD Donors as of January 17, 2025



DCD/Non-DCD Donor Status (%)

	NEUN-TX1	Region 8	Q1:1-14	IAIV-TX1	SCM-TX1	National
DCD	21.43%	13.49%	2.35%	0.00%	0.00%	12.58%
Non-DCD	78.57%	86.51%	97.65%	100.00%	100.00%	87.42%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

# Donation After Circulatory Death (DCD)

2024 transplants n = 17

➤ 5 DCD donors accepted

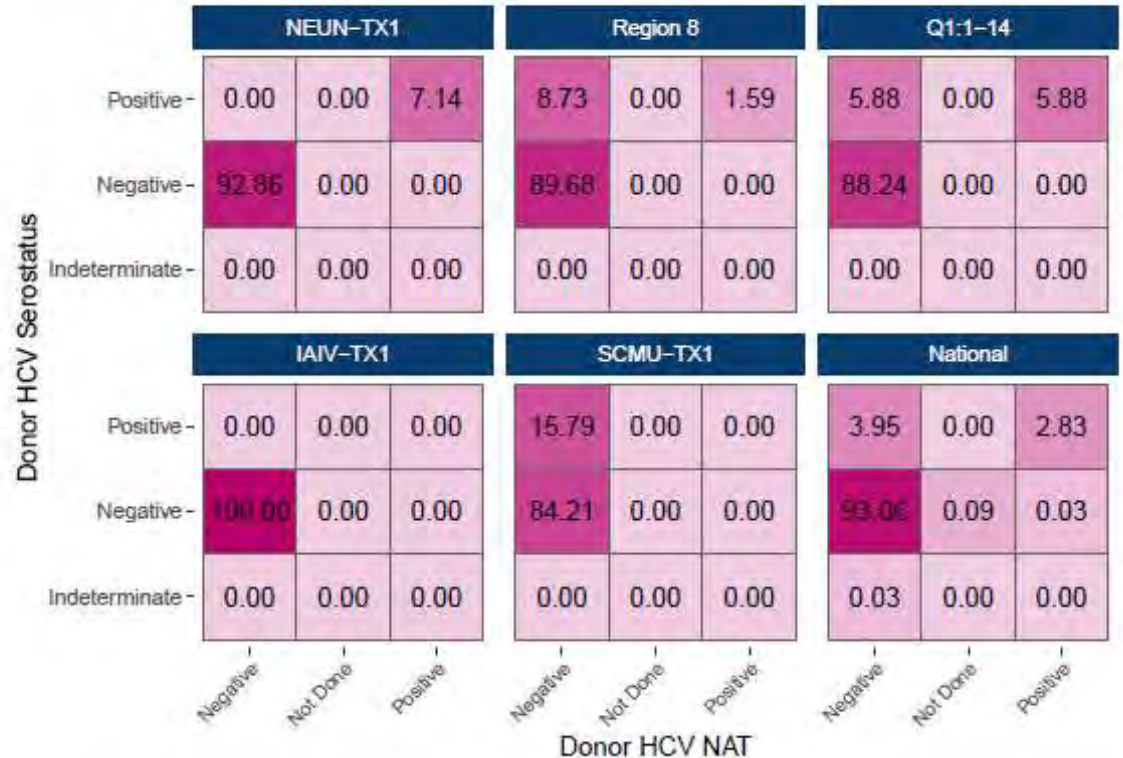
Accepting DCD donors at a higher rate than national average



# Hep C Donors

Accepting Hep C Donors at a higher rate than comparisons

Figure 6. Deceased Donor Hepatitis C Status as of January 17, 2025



# Other Efforts to Widen the Donor Pool

- Organ Offer Review process established
  - Standardize patient selection process across lung transplant team physicians and surgeons with the goal to increase acceptance rate of lung offers
- Started process to accept Hep B Core Ab + Donors Collaboration efforts with Transplant Infectious Disease and Transplant Pharmacy



# Recipients



# Diagnoses

Top 3 NEUN transplanting diagnoses:

1. Emphysema/COPD
2. Idiopathic Interstitial Pneumonia (IIP)
3. Interstitial Lung Disease

## Benchmark Report Lung

NEUN-TX1 January 2025

Figure 7. Diagnosis at Transplant as of January 17, 2025

Diagnosis at Transplant	Congenital Heart Disease -	0.00	0.00	0.00	0.00	0.00	0.06
	Other -	0.00	0.00	1.18	0.00	0.00	0.34
	OB (not retr) -	0.00	1.59	7.06	0.00	0.00	1.03
	Alpha-1 Antitrypsin Deficiency -	0.00	0.79	1.18	0.00	0.00	1.25
	Pulmonary Hypertension (not PAH) -	0.00	0.00	3.53	0.00	0.00	1.37
	Cystic Fibrosis -	0.00	1.59	1.18	0.00	0.00	1.49
	Other Lung Disease -	0.00	2.38	4.71	0.00	0.00	1.62
	Bronchiectasis -	0.00	4.76	3.53	11.11	0.00	2.02
	COVID-19 -	0.00	0.79	2.35	0.00	0.00	2.12
	Sarcoidosis -	7.14	3.97	2.35	5.56	5.26	2.46
	Pulmonary Arterial Hypertension (PAH) -	0.00	0.79	4.71	0.00	0.00	2.74
	Retransplant/Graft Failure -	0.00	1.59	2.35	5.56	5.26	2.80
	1620 -	7.14	2.38	2.35	0.00	0.00	3.70
	Connective Tissue Disease -	0.00	2.38	2.35	0.00	10.53	5.01
	Emphysema/COPD -	50.00	21.43	16.47	16.67	10.53	15.57
	Interstitial Lung Disease (not IIP) -	14.29	9.52	15.29	11.11	26.32	19.96
	Idiopathic Interstitial Pneumonia (IIP) -	21.43	46.03	29.41	50.00	42.11	36.46
		NEUN-TX1	Region 8	Q1:1-14	IAIV-TX1	SCMU-TX1	National

\*Data reflected from 10/1/2023 - 9/30/2024

# Survival





# 90-Day Survival

## C. Transplant Information

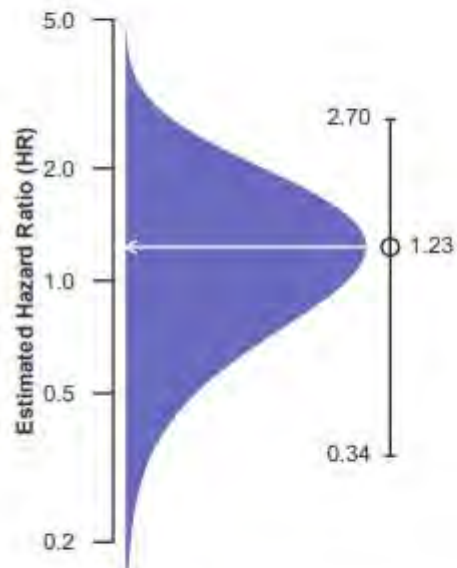
**Table C6D. Adult (18+) 90-Day survival with a functioning deceased donor graft**  
Single organ transplants performed between 07/01/2021 and 12/31/2023  
Deaths and retransplants are considered graft failures

	NEUN	U.S.
Number of transplants evaluated	26	6,755
Estimated probability of surviving with a functioning graft at 90 days & [95% CI] (unadjusted for patient and donor characteristics)	92.31% [82.61%-100.00%]	95.17% [94.66%-95.69%]
Expected probability of surviving with a functioning graft at 90 days (adjusted for patient and donor characteristics)	95.01%	—
Number of observed graft failures (including deaths) during the first 90 days after transplant	2	326
Number of expected graft failures (including deaths) during the first 90 days after transplant	1.25	—
Estimated hazard ratio*	1.23	—
95% credible interval for the hazard ratio**	[0.34, 2.70]	—

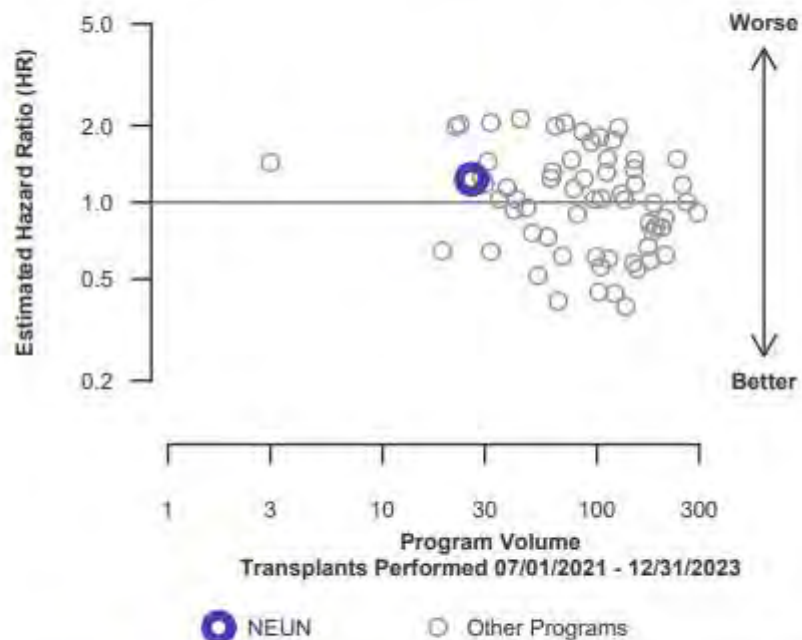




**Figure C3D. Adult (18+) 90-Day deceased donor graft failure HR estimate**



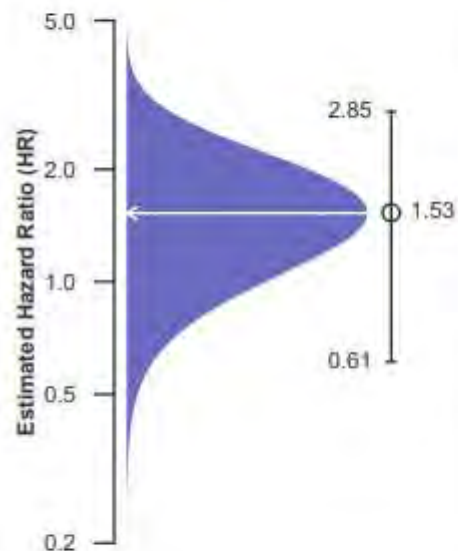
**Figure C4D. Adult (18+) 90-Day deceased donor graft failure HR program comparison**



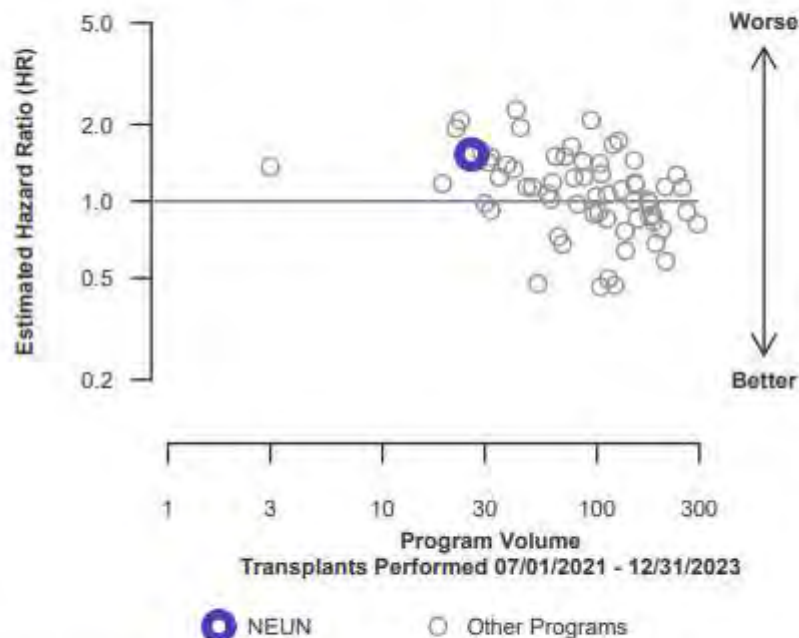
The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.



**Figure C5D. Adult (18+) 1-year deceased donor graft failure HR estimate**

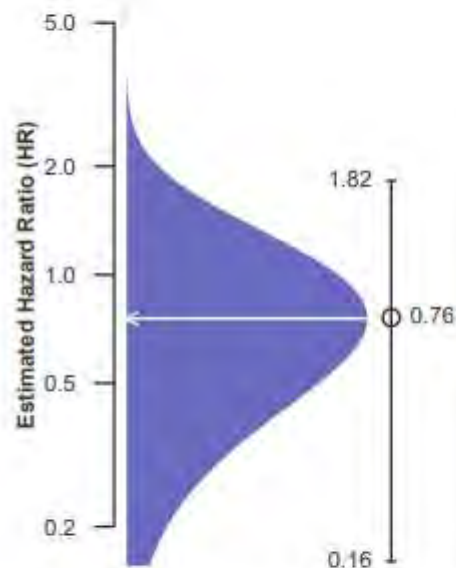


**Figure C6D. Adult (18+) 1-year deceased donor graft failure HR program comparison**

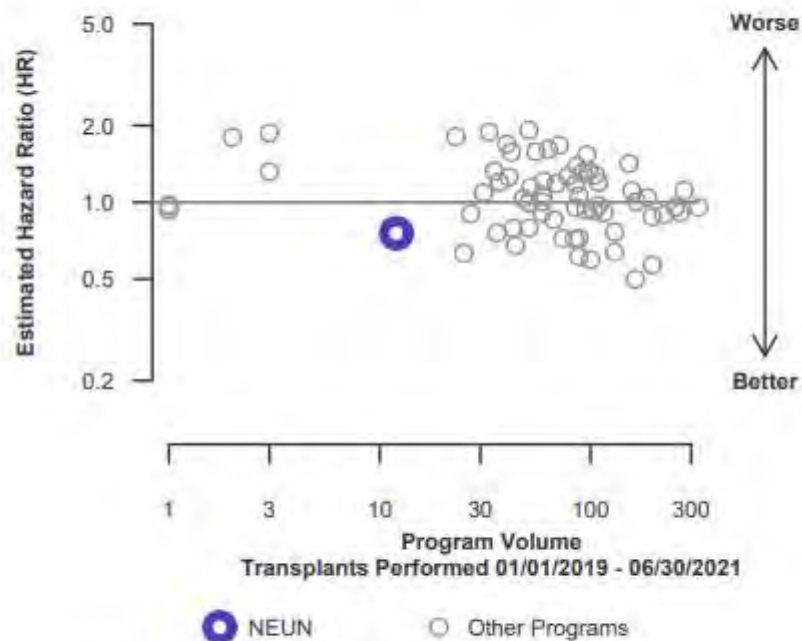


The data reported here were prepared by the Scientific Registry of Transplant Recipients (SRTR) under contract with the Health Resources and Services Administration (HRSA). See COVID-19 Guide for pandemic-related follow-up limits.

**Figure C9D. Adult (18+) 3-year deceased donor graft failure HR estimate**



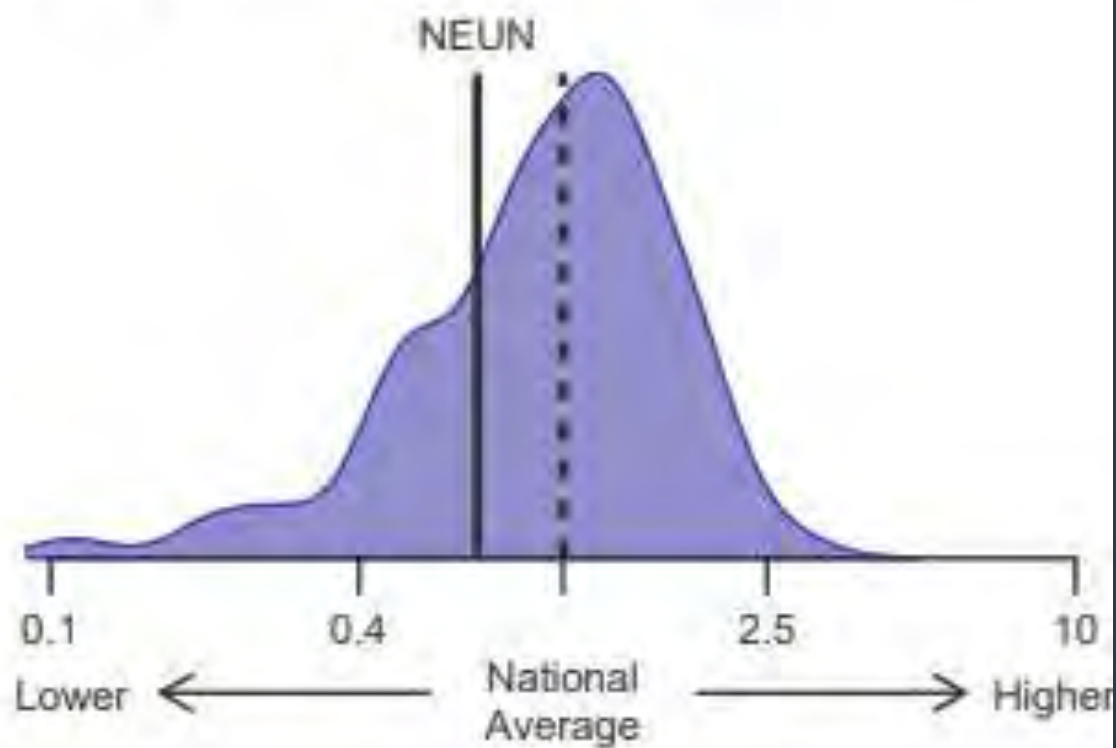
**Figure C10D. Adult (18+) 3-year deceased donor graft failure HR program comparison**



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**Figure B10. Offer acceptance: Overall**







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