

# **OPTN Organizational Metrics Dashboard User Guide**

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## General Dashboard Overview

The OPTN Organizational Metrics Dashboard is a series of interactive dashboards providing high-level information regarding trends in transplantation and donation. The dashboard allows users to investigate current and historic data across all organ groups and select specific OPTN regions, donor types, timeframes, etc.

The dashboard is accessible via <https://optn.transplant.hrsa.gov/> under the Data section. Data, where applicable, is updated weekly and provides several levels of aggregation, from daily to annual information.

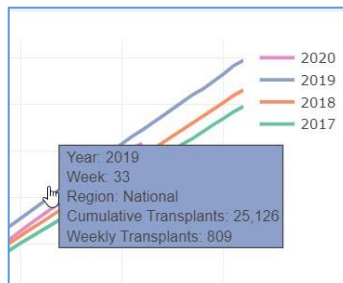
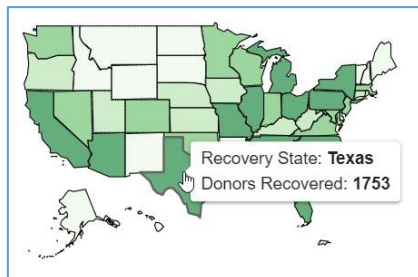
## Data

The dashboard is comprised of OPTN data unless otherwise stated. Transplant and waitlist mortality rates are calculated and provided by the SRTR and publically available via PSR reports.

Weekly data is counted using January 1st as the start of the first week each calendar year (October 1st for each fiscal year), not a fixed day of the week. Current data may reflect a partial week and is noted in the tooltip of each figure. To account for remaining days in the year, week 52 contains either 8 or 9 days (depending on a leap year) rather than 7 standard days in a week. This convention allows for exactly 52 weeks in each year.


## General Tips

**Viewing tooltips** – Certain visualizations contain extra data that is only viewable in the tooltip, which is generated by hovering over an element of the dashboard with the mouse.



**Download data** – Click the “Download Data” button located at the bottom left of some dashboard pages to download a set of .csv files containing data selected and displayed on the page. See [Appendix](#) for a summary of data elements that can be downloaded using this dashboard.

|      |        |       |
|------|--------|-------|
| 2017 | 27,451 | 4,744 |
| 2016 | 26,290 | 4,632 |
| 2015 | 24,573 | 4,667 |



**Calendar Type**

Calendar  
 Fiscal

**Year**

2010 2017 2020

2010 2011 2013 2014 2016 2017 2019 2020

**OPTN Region:**

National

**Organ:**

All Organs

**Donor:**


All Donors

**Data filters** – Use the filters located on the left side of the dashboard pages to filter data by calendar type, transplant year, OPTN region, organ, and donor type.

**Data loading pop-up** – For some visualizations, a pop-up notification will appear to indicate that analysis is run in real-time before it is displayed on the dashboard.

Data has been loaded

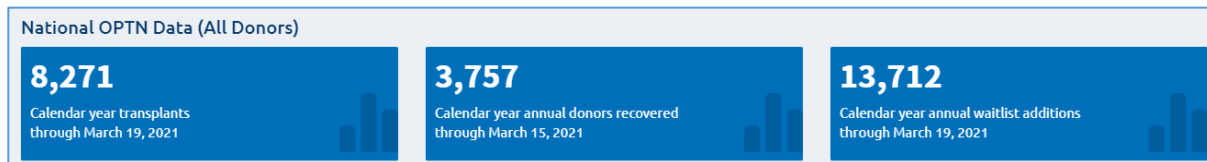
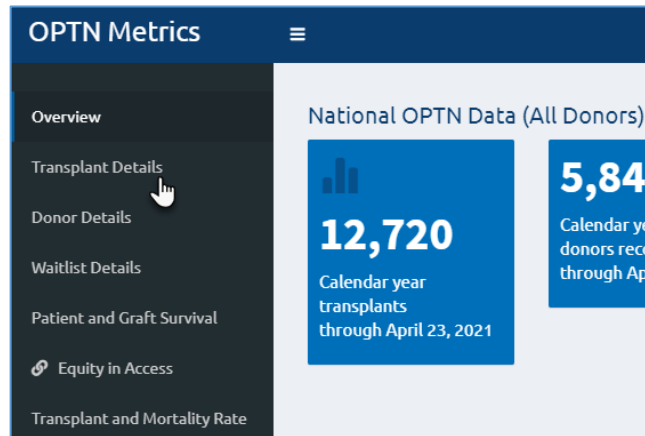
Running survival analysis. Results will be displayed momentarily.



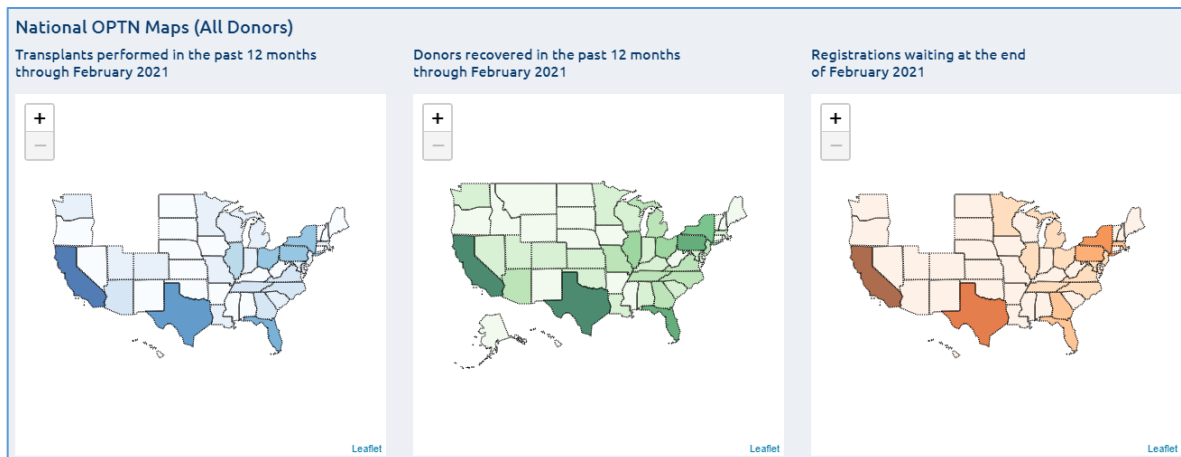
# Dashboard Content

## Overview

The Overview Page is the first page users land on when navigating to the dashboard. This page provides high-level data across waitlist registrations, transplants performed, and donors recovered.



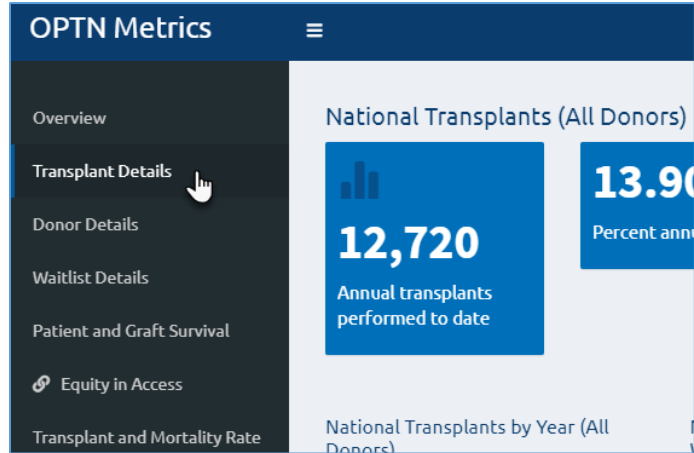
OPTN data on the number of transplants, donors recovered, and waitlist additions observed in the current year are presented at the top of the page. These metrics are also reflected in the individual Details tabs.



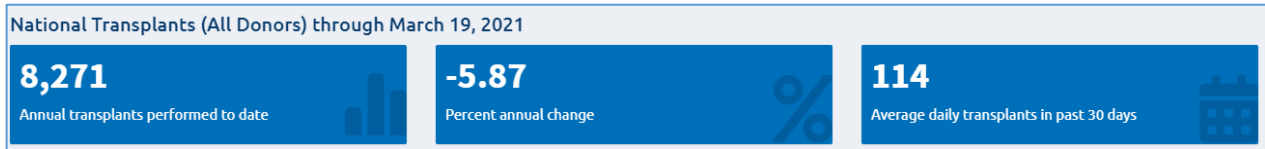
State-level data is presented next. Transplants and donor data are reflective of the past 12 months, while the waitlist registration data displayed is registrations waiting at the end of the previous month. Details of those timeframes are given in each map title. States with no data observed will not appear on the map. Therefore, states with no transplant program (i.e. Alaska) do not appear on the transplant and waiting list maps.

## Transplant Details

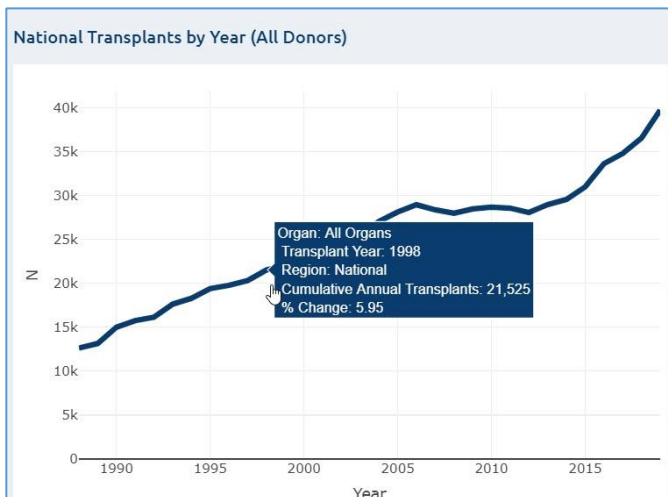
The Transplant Details page provides information on transplants performed, focused on several levels of data aggregation.



Key metrics are presented at the top of the page: the number of transplants performed in the current year, the annual change in transplants as compared to the previous year, and the average daily number of transplants performed over the past 30 days.

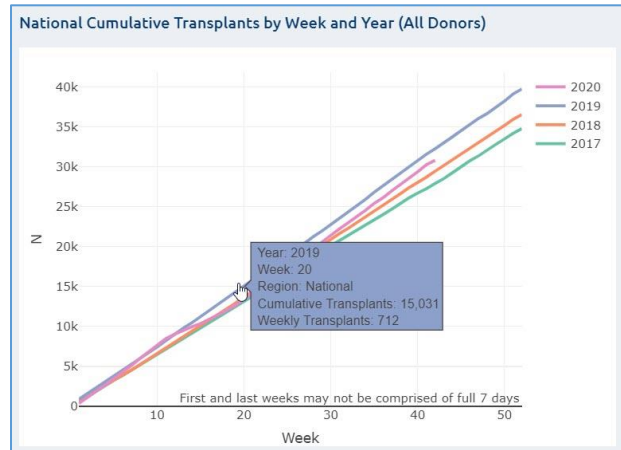


Several figures to help explore the data follow.



The Transplants by Year graph presents a trend line of annual transplants performed from 1988 through the last full year of data.

Beside the annual plot, a plot of weekly cumulative transplants is provided. Users are able to investigate annual transplants performed across several years.

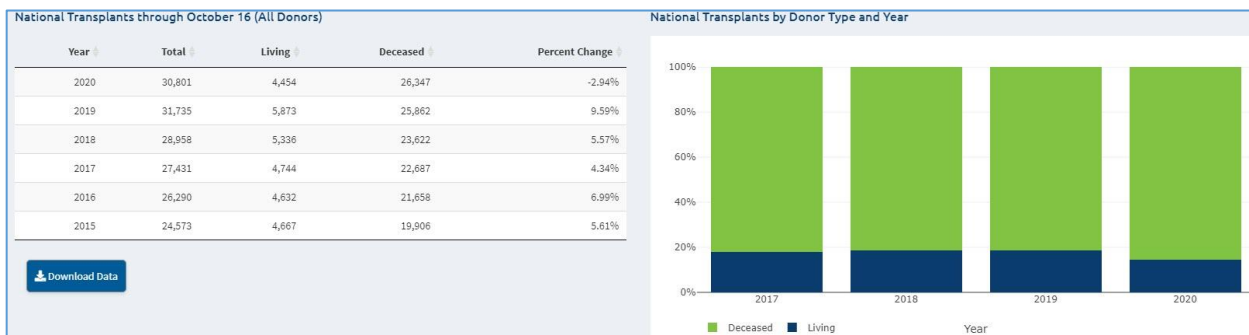


In an effort to view this data in a different light, a plot of weekly transplants is provided.



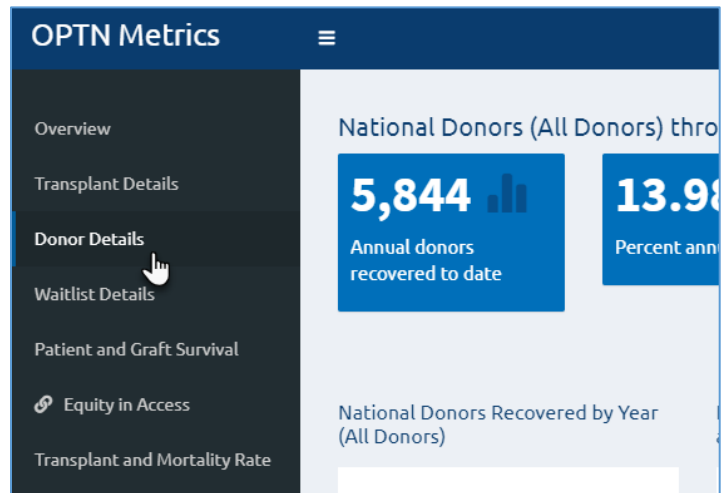
A bar chart displays the annual proportion of donors by type.

The final table presents information on transplants performed through the current date provided over the past six years. This table provides the number of transplants observed in a specific year through the current date by donor type. The annual percent change from the prior year is also provided.

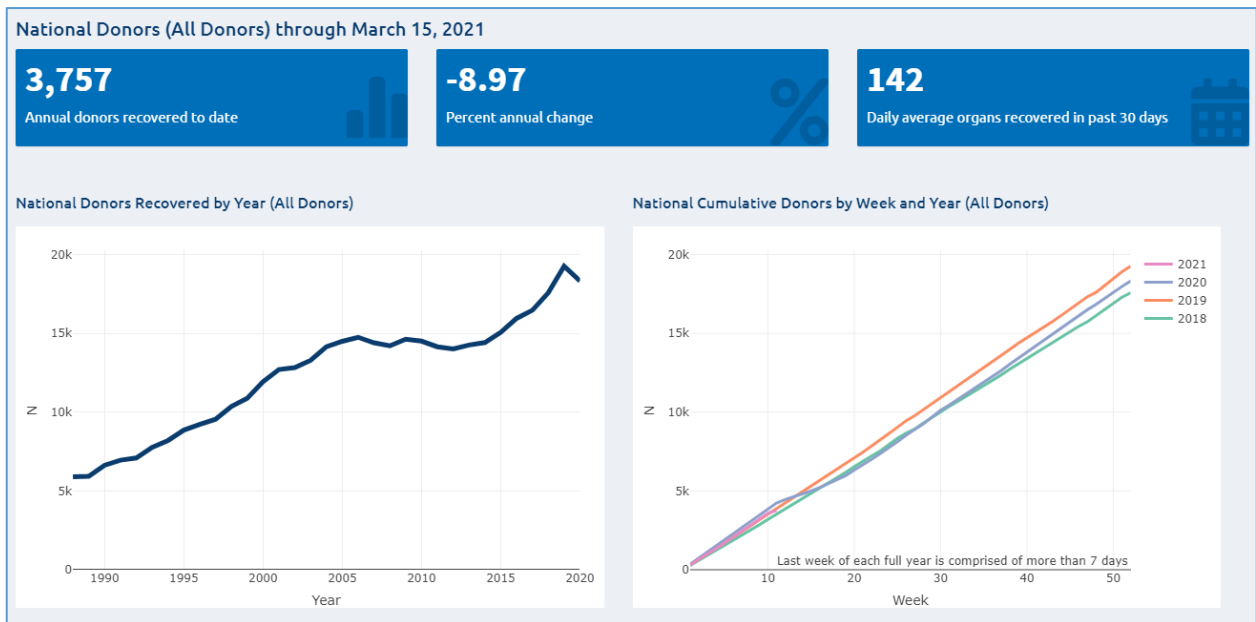


## Donor Details

The Donor Details page provides similar data to those presented on the Transplant Details tab, but focused on donors recovered.



Similar key metrics as outlined in the Transplant Details section are presented in the Donor Details section: the number of donors recovered, percent annual change compared to the previous year, and lastly the daily average number of organs recovered in the past 30 days.



Annual, cumulative, and weekly data plots as well as donor type bar charts act and behave similarly to the transplant plots described in the Transplant Details section above.



| National Deceased Donors Recovered through October 12 |                 |                |                         |                             |
|---|-----------------|----------------|-------------------------|-----------------------------|
| Recovery Year   | Deceased Donors | Percent Change | All Organs Discard Rate | All Organs Utilization Rate |
| 2020  | 9,762           | 5.27%          | 14.93%                  | 41.76%                      |
| 2019  | 9,273           | 10.27%         | 14.25%                  | 43.53%                      |
| 2018  | 8,409           | 4.30%          | 13.46%                  | 43.81%                      |
| 2017  | 8,062           | 4.65%          | 13.37%                  | 43.96%                      |
| 2016  | 7,704           | 7.67%          | 14.03%                  | 43.83%                      |
| 2015  | 7,155           | 6.97%          | 13.74%                  | 43.26%                      |

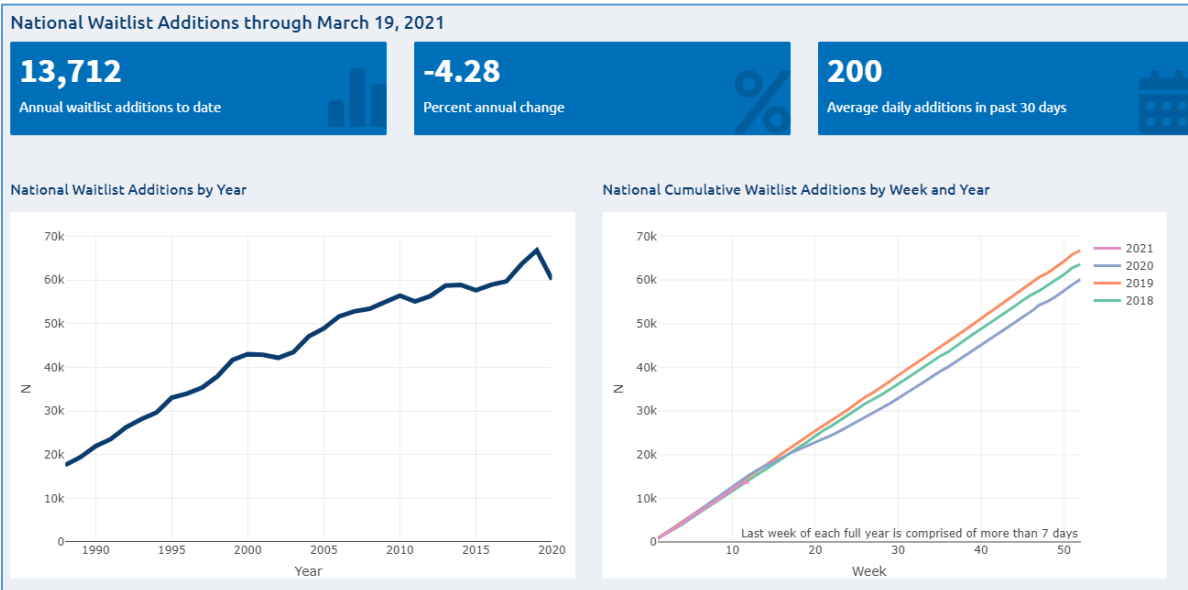
A table of DECEASED DONOR data is defaulted to deceased donors and users do not have the ability to filter by donor type. Annual data on deceased donors recovered through the current date is provided, as well as discard and utilization rates.

- The discard rate is defined as the percent of organs that were recovered for the purpose of transplant but were not eventually transplanted.
- The utilization rate is defined as the percent of organs that were transplanted based on all possible organs.

## Waitlist Details

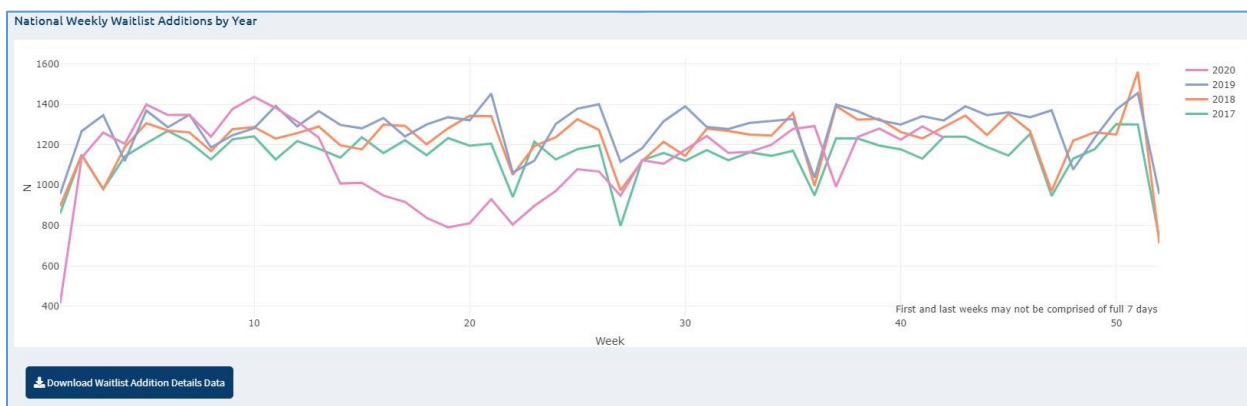
The Waitlist Details page provides similar data presented on the Transplant Details tab, but is focused on waitlist additions.





Key metrics provided at the top of the page are the number of waitlist additions in the current year, the percent annual change compared to the previous year, and the average daily number of additions in the past 30 days.

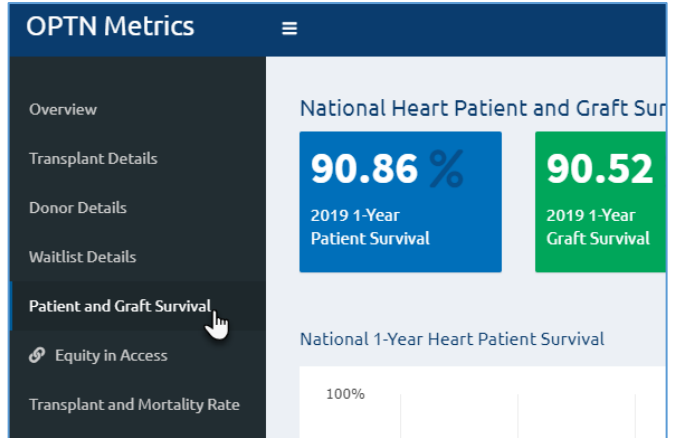
Annual, cumulative, and weekly plots presented act and behave similarly to the plots in the



Transplant Details section described above.

# Patient and Graft Survival

The Patient and Graft Survival page displays the 1 year Kaplan-Meier patient and graft survival for the past 10 years.

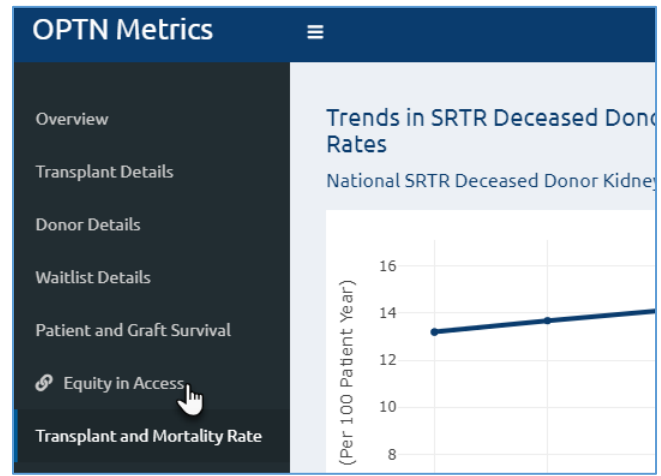


To provide adequate 1 year follow up for transplant centers to report patient and graft status, data is backed up several years. For example, to calculate 1-year survival for recipients transplanted between January 1, 2007, and December 31, 2007, the earliest that data could be reported would be January 1, 2009 (barring any other data lags).

**Note:** For kidney-pancreas recipients, kidney graft survival is presented.

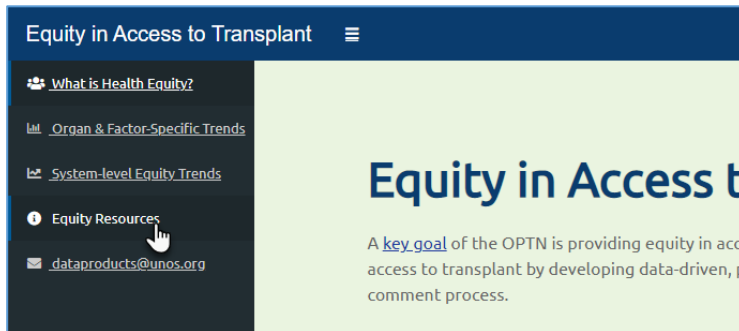
## Equity in Access

The Equity in Access page links the user to the publicly available OPTN Equity in Access dashboard. Data are updated quarterly and provides users the ability to investigate candidate characteristics associated with access to transplantation.



- Access to Transplant Score (ATS) – a candidate’s relative likelihood of receiving a deceased donor transplant.

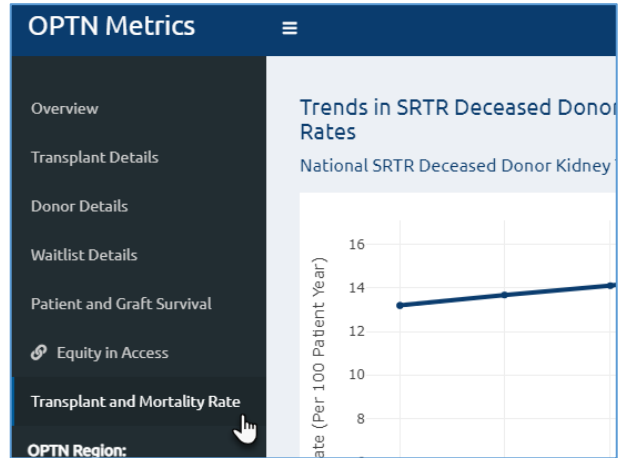
Displayed on the dashboard is the standard deviation of ATS, measuring the disparity in access to timely organ transplantation.



More information about Equity in Access can be found on the Equity in Access dashboard’s *Equity Resources* page.

# Transplant and Mortality Rates

The Transplant and Mortality Rates page displays deceased donor transplant rates and waitlist mortality rates calculated by the SRTR over several cohort periods.



- Transplant Rate – the number of candidates who received a transplant over the person-years observed. This rate is expressed as transplants per 100 patient-years.
- Mortality Rate – the number of deaths observed for candidates on the waiting list over the person-years observed. This rate is expressed as deaths per 100 patient-years.

More information on how these rates are calculated can be found on the SRTR's [website](#).

## Abbreviations

ATS – Access to Transplant Score

BOD – Board of Directors

HRSA – Health Resources and Services Administration

ISO – International Organization for Standardization

OPTN – Organ Procurement and Transplantation Network

PSR – Program-specific reports

SRTR – Scientific Registry of Transplant Recipients

UNOS – United Network for Organ Sharing

## Appendix

| <b>Data Elements</b>      | <b>Description</b>   |
|---------------------------|--|
| <b>Transplant Details</b> |  |
| TX_Annual.csv             | Annual counts and percent change of transplants by year  |
| TX_Table.csv              | Number of total, living, and deceased transplants to date and percent change by year               |
| TX_Weekly.csv             | Weekly number of transplants by year   |
| <b>Donor Details</b>      |  |
| Don_Annual.csv            | Annual counts and percent change by year   |
| Don_Table.csv             | Number of donors recovered to date, utilization and discard rate as well as percent change by year |
| Don_Weekly.csv            | Weekly number of donors recovered by year  |
| <b>Waitlist Details</b>   |  |
| WL_Annual.csv             | Annual counts and percent change of waitlist additions by year                                     |
| WL_Table.csv              | Total number of waitlist additions to date and percent change by year                              |
| WL_Weekly.csv             | Weekly number of waitlist additions by year  |