The United States Centers for Disease Control (CDC from now on) has setup two new public surveillance resources for COVID-19. Together, [COVIDView](https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html) and [COVID-NET](https://gis.cdc.gov/grasp/COVIDNet/COVID19_3.html) provide similar weekly surveillance data as [FluView](https://www.cdc.gov/flu/weekly/index.htm) does for influenza-like illnesses (ILI).

The COVIDView resources are HTML tables (O\_O) and, while the COVID-NET interface provides a “download” button, there is no exposed API to make it easier for the epidemiological community to work with these datasets.

Weekly case, hospitalization, and mortality data is available at the national, state and regional levels (where provided) and I tried to normalize the fields across each of the tables/datasets (I hate to pick on them when they’re down, but these two sites are seriously sub-optimal from a UX and just general usage perspective).

After you follow the above URL for information on how to install the package, it should “just work”. No API keys are needed, but the CDC may change the layout of tables and fields structure of the hidden API at any time, so keep an eye out for updates.

Using it is pretty simple, just use one of the functions to grab the data you want and then work with it.

library(cdccovidview)

library(hrbrthemes)

library(tidyverse)

hosp <- laboratory\_confirmed\_hospitalizations()

hosp

## # A tibble: 4,590 x 8

## catchment network year mmwr\_year mmwr\_week age\_category cumulative\_rate weekly\_rate

##

## 1 Entire Network COVID-NET 2020 2020 10 0-4 yr 0 0

## 2 Entire Network COVID-NET 2020 2020 11 0-4 yr 0 0

## 3 Entire Network COVID-NET 2020 2020 12 0-4 yr 0 0

## 4 Entire Network COVID-NET 2020 2020 13 0-4 yr 0.3 0.3

## 5 Entire Network COVID-NET 2020 2020 14 0-4 yr 0.6 0.3

## 6 Entire Network COVID-NET 2020 2020 15 0-4 yr NA NA

## 7 Entire Network COVID-NET 2020 2020 16 0-4 yr NA NA

## 8 Entire Network COVID-NET 2020 2020 17 0-4 yr NA NA

## 9 Entire Network COVID-NET 2020 2020 18 0-4 yr NA NA

## 10 Entire Network COVID-NET 2020 2020 19 0-4 yr NA NA

## # … with 4,580 more rows

c(

"0-4 yr", "5-17 yr", "18-49 yr", "50-64 yr", "65+ yr", "65-74 yr", "75-84 yr", "85+"

) -> age\_f

mutate(hosp, start = mmwr\_week\_to\_date(mmwr\_year, mmwr\_week)) %>%

filter(![is.na](http://is.na)(weekly\_rate)) %>%

filter(catchment == "Entire Network") %>%

select(start, network, age\_category, weekly\_rate) %>%

filter(age\_category != "Overall") %>%

mutate(age\_category = factor(age\_category, levels = age\_f)) %>%

ggplot() +

geom\_line(

aes(start, weekly\_rate)

) +

scale\_x\_date(

date\_breaks = "2 weeks", date\_labels = "%b\n%d"

) +

facet\_grid(network~age\_category) +

labs(

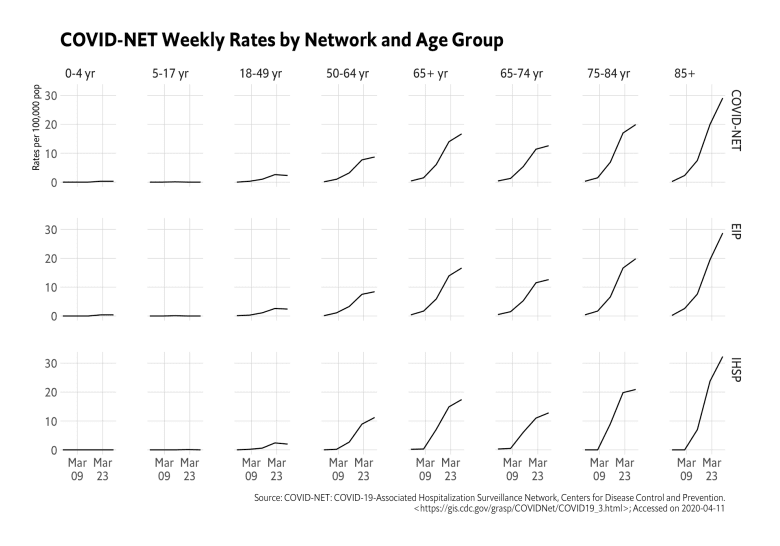
x = NULL, y = "Rates per 100,000 pop",

title = "COVID-NET Weekly Rates by Network and Age Group",

caption = sprintf("Source: COVID-NET: COVID-19-Associated Hospitalization Surveillance Network, Centers for Disease Control and Prevention.\n; Accessed on %s", Sys.Date())

) +

theme\_ipsum\_es(grid="XY")



**FIN**

This is brand new and — as noted — things may change or break due to CDC site changes. I may have also missed a table or two (it’s a truly terrible site).

If you notice things are missing or would like a different interface to various data endpoints, drop an issue or PR wherever you’re most comfortable.