

# Package: COVIDutilities (via r-universe)

September 4, 2024

**Title** Pulls and Returns Tidy COVID-19 Data

**Version** 1.1.0

**Description** What the package does (one paragraph).

**URL** <https://github.com/USAID-OHA-SI/COVIDutilities>

**BugReports** <https://github.com/USAID-OHA-SI/COVIDutilities/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.1.2

**Imports** magrittr, dplyr, tidyr, readr, tibble, stats, purrr, rvest,  
stringr, xml2, scales, ggplot2, markdown, zoo, tidyverse,  
lubridate

**Remotes** USAID-OHA-SI/glamr, USAID-OHA-SI/glitr, USAID-OHA-SI/gophr,  
USAID-OHA-SI/gagglr

**Suggests** rmarkdown, knitr, spelling, qpdf, extrafont

**Language** en-US

**VignetteBuilder** knitr

**Depends** R (>= 2.10)

**Repository** <https://usaid-oha-si.r-universe.dev>

**RemoteUrl** <https://github.com/USAID-OHA-SI/COVIDutilities>

**RemoteRef** HEAD

**RemoteSha** fe761fd7cf1a7f4491f26957da3b8bb5b08eb6

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get_vax_countries	<i>Import Our World in Data Vaccine rates Pull list of countries for which vax data exist</i>
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## Description

Import Our World in Data Vaccine rates

## Usage

```
get_vax_countries(pepfar_only = TRUE)
```

## Arguments

pepfar\_only      pepfar\_only limit to just PEPFAR countries, default = TRUE

## Value

Returns an object of the countries being tracked by Our World in Data

## Source

<https://github.com/owid/covid-19-data>

## See Also

Other vax: [pull\\_vax\\_data\(\)](#)

## Examples

```
## Not run:
#all countries
centry_list <- get_vax_countries(pepfar_only = FALSE)
df_vax <- get_vax_data(centry_list)
#pepfar only countries
centry_list <- get_vax_countries()
df_vax_pepfar <- get_vax_data(centry_list)

## End(Not run)
```

---

`get_vax_data`*Fetch Our World In Data vaccine data*

---

**Description**

Retrieves COVID-19 vaccination data for a given list of countries

**Usage**

```
get_vax_data(cntry)
```

**Arguments**

`cntry` country, or list of countries, that appear in the our world in data page

**Details**

Import OWID vaccine data

**Value**

Returns data frame of total vaccinations by day

---

`pepfar_iso_map`*PEPFAR COUNTRY ISO CODES*

---

**Description**

A dataframe containing the PEPFAR country name and its associated ISO Code 3

**Usage**

```
pepfar_iso_map
```

**Format**

A data frame with 71 rows and 2 variables:

**countryname** PEPFAR country name

**iso** 3 letter ISO code

**Source**

<https://final.datim.org/>

---

`pull_covid_gov_measures`*Pull HDX COVID Government Measures data*

---

### Description

Downloads the UNOCHA HDX COVID Government Measures dataset and loads it into R. The COVID Government Measures dataset "puts together all the measures implemented by governments worldwide in response to the Coronavirus pandemic." For more information, see <https://data.humdata.org/dataset/acaps-covid19-government-measures-dataset>.

### Usage

```
pull_covid_gov_measures(natl_lvl_only = TRUE, pepfar_only = TRUE)
```

### Arguments

```
natl_lvl_only  limit data to national level, default = TRUE
pepfar_only    limit to just PEPFAR countries, default = TRUE
```

### Value

dataframe of countries and their types of government interventions by day

### Source

<https://data.humdata.org/dataset/acaps-covid19-government-measures-dataset>

### Examples

```
## Not run:
df_gov_measures <- pull_covid_gov_measures()
df_restrictions <- df_gov_measures %>%
  filter(countryname == "Nigeria",
         measure %in% c("Domestic travel restrictions",
                       "Partial lockdown", "Full lockdown",
                       "Checkpoints within the country",
                       "Curfews"),
         log_type == "Introduction / extension of measures") %>%
  select(countryname,
         date = date_implemented,
         restrict_cat = category,
         restrict_measure = measure)
## End(Not run)
```

---

pull\_jhu\_covid      *Pull JHU COVID-19 Case, Recovery, and Death Data*

---

**Description**

%>% Returns a tidy data frame of JHU COVID-19 data. Returns a tidy data frame with columns for COVID-19 confirmed cases, recoveries and deaths.

**Usage**

```
pull_jhu_covid(pepfar_only = TRUE)
```

**Arguments**

pepfar\_only      limit to just PEPFAR countries, default = TRUE

**Source**

<https://github.com/CSSEGISandData/COVID-19/>

**Examples**

```
## Not run:  
covid_data <- pull_jhu_covid()  
## End(Not run)
```

---

pull\_stringency\_index      *Pull Oxford Stringency Index*

---

**Description**

API pull of Oxford COVID-19 Government Response Tracker. The stringency index is a composite index across 7 indicators on how governments respond to the COVID epidemic, with scores between 0-100

**Usage**

```
pull_stringency_index(  
  date_start = "2020-01-22",  
  date_end = NULL,  
  pepfar_only = TRUE  
)
```

**Arguments**

date_start	start date for stringency index as yyyy-mm-dd, default/min is Jan 22, 2020
date_end	end date for stringency index as yyyy-mm-dd, default is NULL which will run through today
pepfar_only	limit to just PEPFAR countries, default = TRUE

**Details**

More info at <https://covidtracker.bsg.ox.ac.uk/about-api>

**Value**

dataframe of all PEPFAR countries and their stringency index value by day

**Source**

<https://covidtracker.bsg.ox.ac.uk/about-api>

**Examples**

```
## Not run:
df_stringency <- pull_stringency_index(date_end = "2021-04-01")
## End(Not run)
```

---

pull_vax_data	<i>Fetch Our World In Data vaccine data</i>
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---

**Description**

Retrieves COVID-19 vaccination data for a given list of countries

**Usage**

```
pull_vax_data(cntry)
```

**Arguments**

cntry                    country, or list of countries, that appear in the our world in data page

**Details**

Import OWID vaccine data

**Value**

Returns data frame of total vaccinations by day

**Source**

<https://github.com/owid/covid-19-data>

**See Also**

Other vax: [get\\_vax\\_countries\(\)](#)

**Examples**

```
## Not run:
#only one country
df_vax_zmb <- get_vax_data("Zambia")
#only PEPFAR countries
cntry_list <- get_vax_countries()
df_vax_pepfar <- get_vax_data(cntry_list)
#all countries
cntry_list <- get_vax_countries(pepfar_only = FALSE)
df_vax <- get_vax_data(cntry_list)

## End(Not run)
```

---

who\_pandemic

*Returns a dataframe of when WHO declared COVID-19 a pandemic*

---

**Description**

Returns a dataframe of when WHO declared COVID-19 a pandemic

**Usage**

who\_pandemic()

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