

Package ‘ervissexplore’

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Title Retrieve and Explore ERVISS Respiratory Virus Surveillance Data

Version 0.1.0

Description Provides easy access to ERVISS (European Respiratory Virus Surveillance Summary) data from the EU-ECDC <https://github.com/EU-ECDC/Respiratory_viruses_weekly_data>. Enables retrieval, filtering, and optional visualization of data across European countries. Data is fetched directly from the EU-ECDC Respiratory Viruses Weekly Data repository, with support for both latest data and historical snapshots for reproducible analyses.

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URL <https://github.com/Epiconcept-Paris/ervissexplore>,
<https://epiconcept-paris.github.io/ervissexplore/>

BugReports <https://github.com/Epiconcept-Paris/ervissexplore/issues>

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Contents

get_erviss_data	2
get_erviss_url	4

get_erviss_variants	5
get_erviss_variants_url	6
get_ili_ari_rates	7
get_ili_ari_rates_url	8
get_nonsentinel_severity	9
get_nonsentinel_severity_url	10
get_nonsentinel_tests	11
get_nonsentinel_tests_url	12
get_sari_positivity	13
get_sari_positivity_url	14
get_sari_rates	15
get_sari_rates_url	16
get_sentineltests_positivity	17
get_sentineltests_positivity_url	18
plot_erviss_data	19
plot_erviss_positivity	20
plot_erviss_variants	21
plot_ili_ari_rates	21
plot_nonsentinel_severity	22
plot_nonsentinel_tests	23
plot_sari_positivity	24
plot_sari_rates	25
quick_plot_erviss_data	25
quick_plot_erviss_positivity	27
quick_plot_erviss_variants	28
quick_plot_ili_ari_rates	30
quick_plot_nonsentinel_severity	31
quick_plot_nonsentinel_tests	33
quick_plot_sari_positivity	34
quick_plot_sari_rates	35

Index 37

get_erviss_data	<i>Get ERVISS data</i>
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Description

Retrieves and filters data from the ERVISS (European Respiratory Virus Surveillance Summary). This is a generic function that can retrieve any of the available data types.

Usage

```
get_erviss_data(
  type = ERVISS_TYPES,
  csv_file = NULL,
  date_min,
  date_max,
```

```

    pathogen = "",
    variant = "",
    indicator = "",
    age = "",
    countries = "",
    min_value = 0,
    use_snapshot = FALSE,
    snapshot_date = NULL
  )

```

Arguments

type	Type of data. One of: "positivity", "variants", "ili_ari_rates", "sari_rates", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests".
csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Used for types: "positivity", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests". Use "" (default) to include all pathogens.
variant	Character vector of variant names to filter. Only used for type = "variants". Use "" (default) to include all variants.
indicator	Character vector of indicators to filter. The available values depend on the data type. Use "" (default) to include all indicators.
age	Character vector of age groups to filter. Used for types: "ili_ari_rates", "sari_rates", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests". Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
min_value	Minimum value threshold (default: 0). Only used for type = "variants".
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered data.

Examples

```

# Get positivity data
data <- get_erviss_data(
  type = "positivity",
  date_min = as.Date("2024-01-01"),

```

```
date_max = as.Date("2024-12-31"),
pathogen = "SARS-CoV-2",
countries = "France"
)

# Get ILI consultation rates
data <- get_erviss_data(
  type = "ili_ari_rates",
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  indicator = "ILIconsultationrate",
  age = "total"
)

# Get non-sentinel severity data
data <- get_erviss_data(
  type = "nonsentinel_severity",
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2",
  indicator = "hospitaladmissions"
)
```

get_erviss_url	<i>Get ERVISS data URL</i>
----------------	----------------------------

Description

Builds the URL to download ERVISS data, either the latest batch or a specific snapshot.

Usage

```
get_erviss_url(type = ERVISS_TYPES, use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

type	Type of data. One of: "positivity", "variants", "ili_ari_rates", "sari_rates", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests".
use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest positivity data URL
get_erviss_url("positivity")

# Get latest variants data URL
get_erviss_url("variants")

# Get latest ILI/ARI rates data URL
get_erviss_url("ili_ari_rates")

# Get snapshot URL
get_erviss_url("variants", use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

get_erviss_variants	<i>Get ERVISS variants data</i>
---------------------	---------------------------------

Description

Retrieves and filters SARS-CoV-2 variant data from the ERVISS (European Respiratory Virus Surveillance Summary) for a specified date range, variant(s), and country(ies).

Usage

```
get_erviss_variants(
  csv_file = NULL,
  date_min,
  date_max,
  variant = "",
  countries = "",
  min_value = 0,
  indicator = "",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
variant	Character vector of variant names to filter. Use "" (default) to include all variants.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
min_value	Minimum value threshold to include in the results (default: 0)

indicator	Type of indicator: "proportion" or "detections". Use "" (default) to include all indicators.
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered variant data with columns: date, value, variant, countryname, indicator, and other ERVISS fields.

Examples

```
# Get latest variant data for France
data <- get_erviss_variants(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  countries = "France"
)

# Get specific variants with minimum proportion threshold
data <- get_erviss_variants(
  date_min = as.Date("2024-06-01"),
  date_max = as.Date("2024-12-31"),
  variant = c("XFG", "LP.8.1"),
  min_value = 5
)
```

get_erviss_variants_url
<i>Get ERVISS variants data URL</i>

Description

Builds the URL to download ERVISS variants data, either the latest batch or a specific snapshot.

Usage

```
get_erviss_variants_url(use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest data URL
get_erviss_variants_url()

# Get snapshot URL
get_erviss_variants_url(use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

get_ili_ari_rates	<i>Get ERVISS ILI/ARI consultation rates data</i>
-------------------	---

Description

Retrieves and filters ILI (Influenza-Like Illness) and ARI (Acute Respiratory Infection) consultation rates from the ERVISS (European Respiratory Virus Surveillance Summary) for a specified date range, indicator(s), age group(s), and country(ies).

Usage

```
get_ili_ari_rates(
  csv_file = NULL,
  date_min,
  date_max,
  indicator = "",
  age = "",
  countries = "",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
indicator	Character vector of indicators to filter: "ILIconsultationrate", "ARIconsultationrate", or both. Use "" (default) to include all indicators.
age	Character vector of age groups to filter (e.g., "0-4", "5-14", "15-64", "65+", "total"). Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.

use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered ILI/ARI rates data with columns: survtype, countryname, date, indicator, age, value.

Examples

```
# Get ILI consultation rates for France
data <- get_ili_ari_rates(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  indicator = "ILIconsultationrate",
  countries = "France"
)

# Get both ILI and ARI rates for all countries
data <- get_ili_ari_rates(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31")
)
```

get_ili_ari_rates_url *Get ERVISS ILI/ARI rates data URL*

Description

Builds the URL to download ERVISS ILI/ARI consultation rates data, either the latest batch or a specific snapshot.

Usage

```
get_ili_ari_rates_url(use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest data URL
get_ili_ari_rates_url()

# Get snapshot URL
get_ili_ari_rates_url(use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

```
get_nonsentinel_severity
```

Get ERVISS non-sentinel severity data

Description

Retrieves and filters non-sentinel severity data (deaths, hospital admissions, ICU admissions, etc.) from the ERVISS (European Respiratory Virus Surveillance Summary) for a specified date range, pathogen(s), indicator(s), age group(s), and country(ies).

Usage

```
get_nonsentinel_severity(
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  indicator = "",
  age = "",
  countries = "",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
indicator	Character vector of indicators to filter: "deaths", "hospitaladmissions", "ICUadmissions", "ICUinpatients", "hospitalinpatients", or any combination. Use "" (default) to include all indicators.
age	Character vector of age groups to filter (e.g., "0-4", "5-14", "15-64", "65+", "total"). Use "" (default) to include all age groups.

countries	Character vector of country names to filter. Use "" (default) to include all countries.
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered severity data with columns: survtype, countryname, date, pathogen, pathogentype, indicator, age, value.

Examples

```
# Get hospital admissions for SARS-CoV-2 in France
data <- get_nonsentinel_severity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2",
  indicator = "hospitaladmissions",
  countries = "France"
)

# Get all severity indicators
data <- get_nonsentinel_severity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2"
)
```

get_nonsentinel_severity_url
<i>Get ERVISS non-sentinel severity data URL</i>

Description

Builds the URL to download ERVISS non-sentinel severity data, either the latest batch or a specific snapshot.

Usage

```
get_nonsentinel_severity_url(use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest data URL
get_nonsentinel_severity_url()

# Get snapshot URL
get_nonsentinel_severity_url(use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

get_nonsentinel_tests *Get ERVISS non-sentinel tests/detections data*

Description

Retrieves and filters non-sentinel virological testing data (tests and detections) from the ERVISS (European Respiratory Virus Surveillance Summary) for a specified date range, pathogen(s), indicator(s), age group(s), and country(ies).

Usage

```
get_nonsentinel_tests(
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  indicator = "",
  age = "",
  countries = "",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
indicator	Character vector of indicators to filter: "detections", "tests", or both. Use "" (default) to include all indicators.
age	Character vector of age groups to filter (e.g., "total"). Use "" (default) to include all age groups.

countries	Character vector of country names to filter. Use "" (default) to include all countries.
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered non-sentinel tests data with columns: survtype, countryname, date, pathogen, pathogensubtype, indicator, age, value.

Examples

```
# Get non-sentinel detections for Influenza in France
data <- get_nonsentinel_tests(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "Influenza",
  indicator = "detections",
  countries = "France"
)

# Get all non-sentinel test data
data <- get_nonsentinel_tests(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31")
)
```

get_nonsentinel_tests_url
<i>Get ERVISS non-sentinel tests/detections data URL</i>

Description

Builds the URL to download ERVISS non-sentinel tests/detections data, either the latest batch or a specific snapshot.

Usage

```
get_nonsentinel_tests_url(use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest data URL
get_nonsentinel_tests_url()

# Get snapshot URL
get_nonsentinel_tests_url(use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

get_sari_positivity	<i>Get ERVISS SARI tests/detections/positivity data</i>
---------------------	---

Description

Retrieves and filters SARI (Severe Acute Respiratory Infection) virological data (tests, detections, positivity) from the ERVISS (European Respiratory Virus Surveillance Summary) for a specified date range, pathogen(s), indicator(s), age group(s), and country(ies).

Usage

```
get_sari_positivity(
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  indicator = "",
  age = "",
  countries = "",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
indicator	Character vector of indicators to filter: "positivity", "detections", "tests", or any combination. Use "" (default) to include all indicators.
age	Character vector of age groups to filter (e.g., "total", "0-4", "5-14", "15-64", "65+"). Use "" (default) to include all age groups.

countries	Character vector of country names to filter. Use "" (default) to include all countries.
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered SARI data with columns: survtype, countryname, date, pathogen, pathogenstype, pathogensubtype, indicator, age, value.

Examples

```
# Get SARI positivity data for Influenza in France
data <- get_sari_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "Influenza",
  indicator = "positivity",
  countries = "France"
)

# Get all SARI indicators for SARS-CoV-2
data <- get_sari_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2"
)
```

```
get_sari_positivity_url
```

Get ERVISS SARI tests/detections/positivity data URL

Description

Builds the URL to download ERVISS SARI virological data, either the latest batch or a specific snapshot.

Usage

```
get_sari_positivity_url(use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest data URL
get_sari_positivity_url()

# Get snapshot URL
get_sari_positivity_url(use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

get_sari_rates	<i>Get ERVISS SARI rates data</i>
----------------	-----------------------------------

Description

Retrieves and filters SARI (Severe Acute Respiratory Infection) rates from the ERVISS (European Respiratory Virus Surveillance Summary) for a specified date range, age group(s), and country(ies).

Usage

```
get_sari_rates(
  csv_file = NULL,
  date_min,
  date_max,
  age = "",
  countries = "",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
age	Character vector of age groups to filter (e.g., "0-4", "5-14", "15-64", "65+", "total"). Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered SARI rates data with columns: survtype, countryname, date, indicator, age, value.

Examples

```
# Get SARI rates for Spain
data <- get_sari_rates(
  date_min = as.Date("2025-01-01"),
  date_max = as.Date("2025-12-31"),
  countries = "Spain"
)

# Get SARI rates for specific age groups
data <- get_sari_rates(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  age = c("0-4", "65+")
)
```

get_sari_rates_url	<i>Get ERVISS SARI rates data URL</i>
--------------------	---------------------------------------

Description

Builds the URL to download ERVISS SARI rates data, either the latest batch or a specific snapshot.

Usage

```
get_sari_rates_url(use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest data URL
get_sari_rates_url()

# Get snapshot URL
get_sari_rates_url(use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

`get_sentineltests_positivity`*Get ERVISS sentinel tests data*

Description

Retrieves and filters sentinel surveillance data (positivity, detections, tests) from the ERVISS (European Respiratory Virus Surveillance Summary) for a specified date range, pathogen(s), indicator(s), and country(ies).

Usage

```
get_sentineltests_positivity(  
  csv_file = NULL,  
  date_min,  
  date_max,  
  pathogen = "",  
  indicator = "",  
  countries = "",  
  use_snapshot = FALSE,  
  snapshot_date = NULL  
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
indicator	Character vector of indicators to filter: "positivity", "detections", "tests", or any combination. Use "" (default) to include all indicators.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A data.table containing the filtered data with columns: date, value, pathogen, countryname, indicator, and other ERVISS fields.

Examples

```
# Get latest SARS-CoV-2 positivity data for France
data <- get_sentineltests_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2",
  countries = "France"
)

# Get detections and tests
data <- get_sentineltests_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "Influenza",
  indicator = c("detections", "tests")
)

# Get historical data from a specific snapshot
data <- get_sentineltests_positivity(
  date_min = as.Date("2023-01-01"),
  date_max = as.Date("2023-12-31"),
  use_snapshot = TRUE,
  snapshot_date = as.Date("2024-02-23")
)
```

```
get_sentineltests_positivity_url
```

Get ERVISS positivity data URL

Description

Builds the URL to download ERVISS positivity data, either the latest batch or a specific snapshot.

Usage

```
get_sentineltests_positivity_url(use_snapshot = FALSE, snapshot_date = NULL)
```

Arguments

use_snapshot	Logical. If TRUE, returns a snapshot URL; if FALSE (default), returns the URL for the latest data.
snapshot_date	Date of the snapshot to retrieve (required if use_snapshot = TRUE). Must be a Date object.

Value

A character string containing the URL

Examples

```
# Get latest data URL
get_sentineltests_positivity_url()

# Get snapshot URL
get_sentineltests_positivity_url(use_snapshot = TRUE, snapshot_date = as.Date("2023-11-24"))
```

plot_erviss_data	<i>Plot ERVISS data</i>
------------------	-------------------------

Description

Creates a ggplot2 visualization of ERVISS data, with facets by country. This is a generic function that can plot any of the available data types.

Usage

```
plot_erviss_data(
  data,
  type = ERVISS_TYPES,
  date_breaks = NULL,
  date_format = "%b %Y"
)
```

Arguments

data	A data.table or data.frame containing ERVISS data, typically output from get_erviss_data .
type	Type of data. One of: "positivity", "variants", "ili_ari_rates", "sari_rates", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests".
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks"). If NULL, a sensible default is chosen based on the data type.
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
# Plot positivity data
data <- get_erviss_data("positivity",
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-06-30"),
  pathogen = "SARS-CoV-2"
)
plot_erviss_data(data, type = "positivity")
```

```
# Plot ILI/ARI rates
data <- get_erviss_data("ili_ari_rates",
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-06-30"),
  indicator = "ILIconsultationrate"
)
plot_erviss_data(data, type = "ili_ari_rates")
```

```
plot_erviss_positivity
```

Plot ERVISS positivity data

Description

Creates a ggplot2 visualization of positivity data, with facets by country and colored by pathogen. The plot title displays mean, min and max positivity values.

Usage

```
plot_erviss_positivity(data, date_breaks = "2 weeks", date_format = "%b %Y")
```

Arguments

data	A data.table or data.frame containing positivity data, typically output from get_sentineltests_positivity . Must contain columns: date, value, pathogen, countryname.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
data <- get_sentineltests_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-06-30"),
  pathogen = "SARS-CoV-2"
)
plot_erviss_positivity(data, date_breaks = "1 month")
```

plot_erviss_variants	<i>Plot ERVISS variants data</i>
----------------------	----------------------------------

Description

Creates a ggplot2 visualization of variant data, with facets by country and colored by variant. The y-axis shows percentage of all variants.

Usage

```
plot_erviss_variants(data, date_breaks = "1 month", date_format = "%b %Y")
```

Arguments

data	A data.table or data.frame containing variant data, typically output from get_erviss_variants . Must contain columns: date, value, variant, countryname.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
data <- get_erviss_variants(
  date_min = as.Date("2024-06-01"),
  date_max = as.Date("2024-12-31"),
  variant = c("XFG", "LP.8.1")
)
plot_erviss_variants(data, date_breaks = "1 month")
```

plot_ili_ari_rates	<i>Plot ERVISS ILI/ARI consultation rates data</i>
--------------------	--

Description

Creates a ggplot2 visualization of ILI/ARI consultation rates, with facets by country and colored by age group.

Usage

```
plot_ili_ari_rates(data, date_breaks = "2 weeks", date_format = "%b %Y")
```

Arguments

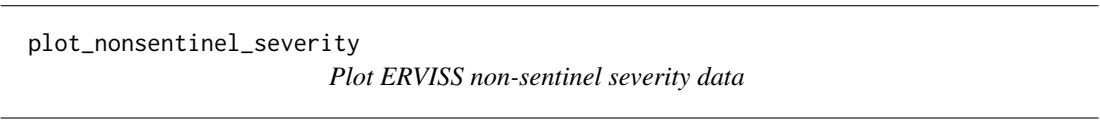
data	A data.table or data.frame containing ILI/ARI rates data, typically output from get_ili_ari_rates . Must contain columns: date, value, age, countryname.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
data <- get_ili_ari_rates(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-06-30"),
  indicator = "ILIconsultationrate"
)
plot_ili_ari_rates(data, date_breaks = "1 month")
```



Description

Creates a ggplot2 visualization of non-sentinel severity data, with facets by country and colored by pathogen.

Usage

```
plot_nonsentinel_severity(
  data,
  date_breaks = "1 month",
  date_format = "%b %Y"
)
```

Arguments

data	A data.table or data.frame containing severity data, typically output from get_nonsentinel_severity . Must contain columns: date, value, pathogen, countryname.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
data <- get_nonsentinel_severity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-06-30"),
  pathogen = "SARS-CoV-2",
  indicator = "hospitaladmissions"
)
plot_nonsentinel_severity(data, date_breaks = "1 month")
```

plot_nonsentinel_tests

Plot ERVISS non-sentinel tests/detections data

Description

Creates a ggplot2 visualization of non-sentinel tests/detections data, with facets by country and colored by pathogen.

Usage

```
plot_nonsentinel_tests(data, date_breaks = "1 month", date_format = "%b %Y")
```

Arguments

data	A data.table or data.frame containing non-sentinel tests data, typically output from get_nonsentinel_tests . Must contain columns: date, value, pathogen, countryname.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
data <- get_nonsentinel_tests(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-06-30"),
  pathogen = "Influenza",
  indicator = "detections"
)
```

```
plot_nonsentinel_tests(data, date_breaks = "1 month")
```

```
plot_sari_positivity    Plot ERVISS SARI positivity data
```

Description

Creates a ggplot2 visualization of SARI positivity data, with facets by country and colored by pathogen.

Usage

```
plot_sari_positivity(data, date_breaks = "2 weeks", date_format = "%b %Y")
```

Arguments

data	A data.table or data.frame containing SARI positivity data, typically output from get_sari_positivity . Must contain columns: date, value, pathogen, country-name.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
data <- get_sari_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-06-30"),
  pathogen = "Influenza",
  indicator = "positivity"
)
plot_sari_positivity(data, date_breaks = "1 month")
```

plot_sari_rates	<i>Plot ERVISS SARI rates data</i>
-----------------	------------------------------------

Description

Creates a ggplot2 visualization of SARI rates, with facets by country and colored by age group.

Usage

```
plot_sari_rates(data, date_breaks = "2 weeks", date_format = "%b %Y")
```

Arguments

data	A data.table or data.frame containing SARI rates data, typically output from get_sari_rates . Must contain columns: date, value, age, countryname.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

Value

A ggplot2 object

Examples

```
data <- get_sari_rates(
  date_min = as.Date("2025-01-01"),
  date_max = as.Date("2025-06-30"),
  countries = "Spain"
)
plot_sari_rates(data, date_breaks = "1 month")
```

quick_plot_erviss_data	<i>Quick plot of ERVISS data</i>
------------------------	----------------------------------

Description

Convenience function that fetches and plots ERVISS data in one step. This is a generic function that can handle any of the available data types. For more control, use [get_erviss_data](#) followed by [plot_erviss_data](#).

Usage

```

quick_plot_erviss_data(
  type = ERVISS_TYPES,
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  variant = "",
  indicator = "",
  age = "",
  countries = "",
  min_value = 0,
  date_breaks = NULL,
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)

```

Arguments

type	Type of data. One of: "positivity", "variants", "ili_ari_rates", "sari_rates", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests".
csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Used for types: "positivity", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests". Use "" (default) to include all pathogens.
variant	Character vector of variant names to filter. Only used for type = "variants". Use "" (default) to include all variants.
indicator	Character vector of indicators to filter. The available values depend on the data type. Use "" (default) to include all indicators.
age	Character vector of age groups to filter. Used for types: "ili_ari_rates", "sari_rates", "sari_positivity", "nonsentinel_severity", "nonsentinel_tests". Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
min_value	Minimum value threshold (default: 0). Only used for type = "variants".
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks"). If NULL, a sensible default is chosen based on the data type.
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.

snapshot_date Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A ggplot2 object showing the data over time by country

Examples

```
# Quick visualization of positivity data
quick_plot_erviss_data(
  type = "positivity",
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2"
)

# Quick visualization of ILI rates
quick_plot_erviss_data(
  type = "ili_ari_rates",
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  indicator = "ILIconsultationrate"
)
```

quick_plot_erviss_positivity

Quick plot of ERVISS positivity data

Description

Convenience function that fetches and plots ERVISS positivity data in one step. For more control, use [get_sentineltests_positivity](#) followed by [plot_erviss_positivity](#).

Usage

```
quick_plot_erviss_positivity(
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  indicator = "",
  countries = "",
  date_breaks = "2 weeks",
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
indicator	Character vector of indicators to filter: "positivity", "detections", "tests", or any combination. Use "" (default) to include all indicators.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A ggplot2 object showing positivity over time by country and pathogen

Examples

```
# Quick visualization of latest data
quick_plot_erviss_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2",
  date_breaks = "1 month"
)
```

quick_plot_erviss_variants
<i>Quick plot of ERVISS variants data</i>

Description

Convenience function that fetches and plots ERVISS variant data in one step. For more control, use [get_erviss_variants](#) followed by [plot_erviss_variants](#).

Usage

```
quick_plot_erviss_variants(
  csv_file = NULL,
  date_min,
  date_max,
  variant = "",
  countries = "",
  min_value = 0,
  indicator = "",
  date_breaks = "1 month",
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
variant	Character vector of variant names to filter. Use "" (default) to include all variants.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
min_value	Minimum value threshold to include in the results (default: 0)
indicator	Type of indicator: "proportion" or "detections". Use "" (default) to include all indicators.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A ggplot2 object showing variant proportions over time by country

Examples

```
# Quick visualization of latest variant data
quick_plot_erviss_variants(
  date_min = as.Date("2024-06-01"),
  date_max = as.Date("2024-12-31"),
```

```

variant = c("XFG", "LP.8.1"),
date_breaks = "1 month"
)

```

```
quick_plot_ili_ari_rates
```

Quick plot of ERVISS ILI/ARI consultation rates data

Description

Convenience function that fetches and plots ERVISS ILI/ARI consultation rates data in one step. For more control, use [get_ili_ari_rates](#) followed by [plot_ili_ari_rates](#).

Usage

```

quick_plot_ili_ari_rates(
  csv_file = NULL,
  date_min,
  date_max,
  indicator = "",
  age = "",
  countries = "",
  date_breaks = "2 weeks",
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)

```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
indicator	Character vector of indicators to filter: "ILIconsultationrate", "ARIconsultationrate", or both. Use "" (default) to include all indicators.
age	Character vector of age groups to filter (e.g., "0-4", "5-14", "15-64", "65+", "total"). Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")

use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A ggplot2 object showing ILI/ARI consultation rates over time by country and age group

Examples

```
# Quick visualization of ILI rates
quick_plot_ili_ari_rates(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  indicator = "ILIconsultationrate",
  date_breaks = "1 month"
)
```

```
quick_plot_nonsentinel_severity
```

Quick plot of ERVISS non-sentinel severity data

Description

Convenience function that fetches and plots ERVISS non-sentinel severity data in one step. For more control, use [get_nonsentinel_severity](#) followed by [plot_nonsentinel_severity](#).

Usage

```
quick_plot_nonsentinel_severity(
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  indicator = "",
  age = "",
  countries = "",
  date_breaks = "1 month",
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

<code>csv_file</code>	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
<code>date_min</code>	Start date of the period (Date object)
<code>date_max</code>	End date of the period (Date object)
<code>pathogen</code>	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
<code>indicator</code>	Character vector of indicators to filter: "deaths", "hospitaladmissions", "ICUadmissions", "ICUinpatients", "hospitalinpatients", or any combination. Use "" (default) to include all indicators.
<code>age</code>	Character vector of age groups to filter (e.g., "0-4", "5-14", "15-64", "65+", "total"). Use "" (default) to include all age groups.
<code>countries</code>	Character vector of country names to filter. Use "" (default) to include all countries.
<code>date_breaks</code>	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
<code>date_format</code>	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")
<code>use_snapshot</code>	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if <code>csv_file</code> is provided.
<code>snapshot_date</code>	Date of the snapshot to retrieve. Required if <code>use_snapshot = TRUE</code> and <code>csv_file</code> is NULL.

Value

A ggplot2 object showing severity data over time by country and pathogen

Examples

```
# Quick visualization of hospital admissions
quick_plot_nonsentinel_severity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "SARS-CoV-2",
  indicator = "hospitaladmissions",
  date_breaks = "1 month"
)
```

quick_plot_nonsentinel_tests

Quick plot of ERVISS non-sentinel tests/detections data

Description

Convenience function that fetches and plots ERVISS non-sentinel tests/detections data in one step. For more control, use [get_nonsentinel_tests](#) followed by [plot_nonsentinel_tests](#).

Usage

```
quick_plot_nonsentinel_tests(
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  indicator = "",
  age = "",
  countries = "",
  date_breaks = "1 month",
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
pathogen	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
indicator	Character vector of indicators to filter: "detections", "tests", or both. Use "" (default) to include all indicators.
age	Character vector of age groups to filter (e.g., "total"). Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A ggplot2 object showing non-sentinel tests/detections over time by country and pathogen

Examples

```
# Quick visualization of non-sentinel detections
quick_plot_nonsentinel_tests(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "Influenza",
  indicator = "detections",
  date_breaks = "1 month"
)
```

```
quick_plot_sari_positivity
```

Quick plot of ERVISS SARI positivity data

Description

Convenience function that fetches and plots ERVISS SARI positivity data in one step. For more control, use [get_sari_positivity](#) followed by [plot_sari_positivity](#).

Usage

```
quick_plot_sari_positivity(
  csv_file = NULL,
  date_min,
  date_max,
  pathogen = "",
  indicator = "",
  age = "",
  countries = "",
  date_breaks = "2 weeks",
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)

pathogen	Character vector of pathogen names to filter. Use "" (default) to include all pathogens.
indicator	Character vector of indicators to filter: "positivity", "detections", "tests", or any combination. Use "" (default) to include all indicators.
age	Character vector of age groups to filter (e.g., "total", "0-4", "5-14", "15-64", "65+"). Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A ggplot2 object showing SARI positivity over time by country and pathogen

Examples

```
# Quick visualization of SARI positivity
quick_plot_sari_positivity(
  date_min = as.Date("2024-01-01"),
  date_max = as.Date("2024-12-31"),
  pathogen = "Influenza",
  indicator = "positivity",
  date_breaks = "1 month"
)
```

quick_plot_sari_rates	<i>Quick plot of ERVISS SARI rates data</i>
-----------------------	---

Description

Convenience function that fetches and plots ERVISS SARI rates data in one step. For more control, use [get_sari_rates](#) followed by [plot_sari_rates](#).

Usage

```
quick_plot_sari_rates(
  csv_file = NULL,
  date_min,
  date_max,
  age = "",
  countries = "",
  date_breaks = "2 weeks",
  date_format = "%b %Y",
  use_snapshot = FALSE,
  snapshot_date = NULL
)
```

Arguments

csv_file	Path to a local CSV file or URL containing the ERVISS data. If NULL (default), data is fetched from the official ERVISS repository.
date_min	Start date of the period (Date object)
date_max	End date of the period (Date object)
age	Character vector of age groups to filter (e.g., "0-4", "5-14", "15-64", "65+", "total"). Use "" (default) to include all age groups.
countries	Character vector of country names to filter. Use "" (default) to include all countries.
date_breaks	A string specifying the date breaks for the x-axis (e.g., "1 month", "2 weeks")
date_format	A string specifying the date format for x-axis labels (e.g., "%b %Y" for "Jan 2024")
use_snapshot	Logical. If TRUE, fetches a historical snapshot; if FALSE (default), fetches the latest data. Ignored if csv_file is provided.
snapshot_date	Date of the snapshot to retrieve. Required if use_snapshot = TRUE and csv_file is NULL.

Value

A ggplot2 object showing SARI rates over time by country and age group

Examples

```
# Quick visualization of SARI rates
quick_plot_sari_rates(
  date_min = as.Date("2025-01-01"),
  date_max = as.Date("2025-12-31"),
  countries = "Spain",
  date_breaks = "1 month"
)
```

Index

get_erviss_data, [2](#), [19](#), [25](#)
get_erviss_url, [4](#)
get_erviss_variants, [5](#), [21](#), [28](#)
get_erviss_variants_url, [6](#)
get_ili_ari_rates, [7](#), [22](#), [30](#)
get_ili_ari_rates_url, [8](#)
get_nonsentinel_severity, [9](#), [22](#), [31](#)
get_nonsentinel_severity_url, [10](#)
get_nonsentinel_tests, [11](#), [23](#), [33](#)
get_nonsentinel_tests_url, [12](#)
get_sari_positivity, [13](#), [24](#), [34](#)
get_sari_positivity_url, [14](#)
get_sari_rates, [15](#), [25](#), [35](#)
get_sari_rates_url, [16](#)
get_sentineltests_positivity, [17](#), [20](#), [27](#)
get_sentineltests_positivity_url, [18](#)

plot_erviss_data, [19](#), [25](#)
plot_erviss_positivity, [20](#), [27](#)
plot_erviss_variants, [21](#), [28](#)
plot_ili_ari_rates, [21](#), [30](#)
plot_nonsentinel_severity, [22](#), [31](#)
plot_nonsentinel_tests, [23](#), [33](#)
plot_sari_positivity, [24](#), [34](#)
plot_sari_rates, [25](#), [35](#)

quick_plot_erviss_data, [25](#)
quick_plot_erviss_positivity, [27](#)
quick_plot_erviss_variants, [28](#)
quick_plot_ili_ari_rates, [30](#)
quick_plot_nonsentinel_severity, [31](#)
quick_plot_nonsentinel_tests, [33](#)
quick_plot_sari_positivity, [34](#)
quick_plot_sari_rates, [35](#)