

# Package ‘cthist’

June 7, 2022

**Title** Clinical Trial Registry History

**Version** 1.2.1

**Description** Retrieves historical versions of clinical trial registry entries.

**License** AGPL (>= 3)

**URL** <https://github.com/bgcarlisle/cthist>

**BugReports** <https://github.com/bgcarlisle/cthist/issues>

**Imports** assertthat, dplyr, httr, jsonlite, magrittr, polite, RCurl, readr, rlang, rvest, selectr, stringr, tibble

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**Encoding** UTF-8

**RoxygenNote** 7.1.2

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2022-06-07 04:30:22 UTC

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clinicaltrials\_gov\_dates

*Download a vector of dates on which a ClinicalTrials.gov registry entry was updated*

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### **Description**

Download a vector of dates on which a ClinicalTrials.gov registry entry was updated

### **Usage**

```
clinicaltrials_gov_dates(nctid, status_change_only = FALSE)
```

### **Arguments**

**nctid** A character string including a well-formed ClinicalTrials.gov NCT Number, e.g. "NCT00942747". (A capitalized "NCT" followed by eight numerals with no spaces or hyphens.)

**status\_change\_only** If TRUE, returns only the dates marked with a Recruitment Status change, default FALSE.

### **Value**

A character vector of ISO-8601 formatted dates corresponding to the dates on which there were clinical trial history version updates.

### **Examples**

```
## Not run:  
versions <- clinicaltrials_gov_dates("NCT00942747")  
  
## End(Not run)
```

---

clinicaltrials\_gov\_download

*Mass-download registry entry historical versions from ClinicalTrials.gov*

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### **Description**

This function will download all ClinicalTrials.gov registry records for the NCT numbers specified. Rather than transcribing NCT numbers by hand, it is recommended that you conduct a search for trials of interest using the ClinicalTrials.gov web front-end and download the result as a comma-separated value (CSV) file. The CSV can be read in to memory as a data frame and the NCT Number column can be passed directly to the function as the `nctids` argument.

**Usage**

```
clinicaltrials_gov_download(nctids, output_filename = NA, quiet = FALSE)
```

**Arguments**

nctids	A list of well-formed NCT numbers, e.g. c("NCT00942747", "NCT03281616").
output_filename	A character string for a filename into which the data frame will be written as a CSV, e.g. "historical_versions.csv". If no output filename is provided, the data frame of downloaded historical versions will be returned by the function as a data frame.
quiet	A boolean TRUE or FALSE. If TRUE, no messages will be printed during download. FALSE by default, messages printed for every version downloaded showing progress.

**Value**

If an output filename is specified, on successful completion, this function returns TRUE and otherwise returns FALSE. If an output filename is not specified, on successful completion, this function returns a data frame containing the historical versions of the clinical trial that have been retrieved, and in case of error returns FALSE. After unsuccessful completion with an output filename specified, if the function is called again with the same NCT numbers and output filename, the function will check the output file for errors or incompletely downloaded registry entries, remove them and try to download the historical versions that are still needed, while preserving the ones that have already been downloaded correctly.

**Examples**

```
## Not run:
filename <- tempfile()
clinicaltrials_gov_download(c("NCT00942747",
  "NCT03281616"), filename)

## End(Not run)

## Not run:
hv <- clinicaltrials_gov_download("NCT00942747")

## End(Not run)
```

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clinicaltrials\_gov\_version

*Download a registry entry version from ClinicalTrials.gov*

---

**Description**

Download a registry entry version from ClinicalTrials.gov

**Usage**

```
clinicaltrials_gov_version(nctid, versionno = 1)
```

**Arguments**

nctid	A character string including a well-formed ClinicalTrials.gov NCT Number, e.g. "NCT00942747". (A capitalized "NCT" followed by eight numerals with no spaces or hyphens.)
versionno	An integer version number, e.g. 3, where 1 is the earliest version of the trial in question, 2 is the next most recent, etc. If no version number is specified, the first version will be downloaded.

**Value**

A list containing the overall status, enrolment, start date, start date precision (month or day) primary completion date, primary completion date precision (month or day), primary completion date type, minimum age, maximum age, sex, gender-based, accepts healthy volunteers, inclusion/exclusion criteria, outcome measures, contacts and sponsors

**Examples**

```
## Not run:
version <- clinicaltrials_gov_version("NCT00942747", 1)

## End(Not run)
```

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drks_de_dates	<i>Download a vector of dates on which a drks.de registry entry was updated</i>
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**Description**

Download a vector of dates on which a drks.de registry entry was updated

**Usage**

```
drks_de_dates(drksid)
```

**Arguments**

drksid	A character string including a well-formed DRKS id, e.g. "DRKS00005219". (A capitalized "DRKS" followed by eight numerals with no spaces or hyphens.)
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**Value**

A character vector of ISO-8601 formatted dates corresponding to the dates on which there were clinical trial history version updates.

## Examples

```
## Not run:  
versions <- drks_de_dates("DRKS00005219")  
  
## End(Not run)
```

---

drks\_de\_download      *Mass-download registry entry historical versions from DRKS.de*

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## Description

This function will download all DRKS.de registry records for the TRNs specified. Rather than transcribing TRNs by hand, it is recommended that you conduct a search for trials of interest using the DRKS.de web front-end and download the result as a comma-separated value (CSV) file. The download option labeled "CSV" on DRKS.de currently produces a zipped semicolon-delimited file, which must be unzipped before reading. The file can be read in to memory as a data frame and the drksId column can be passed directly to the function as the drksids argument.

## Usage

```
drks_de_download(drksids, output_filename = NA, quiet = FALSE)
```

## Arguments

drksids	A list of well-formed DRKS numbers, e.g. <code>c("DRKS00005219", "DRKS00003170")</code> .
output_filename	A character string for a filename into which the dataframe will be written as a CSV, e.g. "historical_versions.csv". If no output filename is provided, the data frame of downloaded historical versions will be returned by the function as a data frame.
quiet	A boolean TRUE or FALSE. If TRUE, no messages will be printed during download. FALSE by default, messages printed for every version downloaded showing progress.

## Value

If an output filename is specified, on successful completion, this function returns TRUE and otherwise returns FALSE. If an output filename is not specified, on successful completion, this function returns a data frame containing the historical versions of the clinical trial that have been retrieved, and in case of error returns FALSE. After unsuccessful completion, if the function is called again with the same NCT numbers and output filename, it will check the output file for errors in the download, remove them and try to download the historical versions again.

**Examples**

```
## Not run:
filename <- tempfile()
drks_de_download(c("DRKS00005219", "DRKS00003170"), filename)

## End(Not run)

## Not run:
hv <- drks_de_download("DRKS00005219")

## End(Not run)
```

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drks_de_version	<i>Download a registry entry version from DRKS.de</i>
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**Description**

Download a registry entry version from DRKS.de

**Usage**

```
drks_de_version(drksid, versionno = 1)
```

**Arguments**

drksid	A character string including a well-formed DRKS id, e.g. "DRKS00005219". (A capitalized "DRKS" followed by eight numerals with no spaces or hyphens.)
versionno	An integer version number, e.g. 3, where 1 is the earliest version of the trial in question, 2, is the next most recent, etc. If 0 is supplied, the most recent version will be returned. If no version number is specified, the first version will be downloaded.

**Value**

A list containing the overall status, enrolment, start date, primary completion date, primary completion date type, minimum age, maximum age, sex, gender-based, accepts healthy volunteers, inclusion/exclusion criteria, outcome measures, contacts and sponsors

**Examples**

```
## Not run:
version <- drks_de_version("DRKS00005219", 1)

## End(Not run)
```

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