Package 'cthist'

December 16, 2022
Title Clinical Trial Registry History
Version 1.4.0
Description Retrieves historical versions of clinical trial registry entries from https://ClinicalTrials.gov . Package functionality and implementation is documented in Carlisle (2022) <doi:10.1371 journal.pone.0270909="">.</doi:10.1371>
License AGPL (>= 3)
<pre>URL https://github.com/bgcarlisle/cthist</pre>
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clinicaltrials_gov_dates

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

Description

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

Usage

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

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, de-

fault FALSE.

polite If TRUE, this function uses the polite package to download data, if FALSE,

this function uses the rvest package, default TRUE.

Value

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

Examples

```
versions <- clinicaltrials_gov_dates("NCT00942747")</pre>
```

clinicaltrials_gov_download

Mass-download registry entry historical versions from ClinicalTrials.gov

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 commaseparated 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,
  polite = TRUE,
  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.

polite If TRUE, this function uses the polite package to download data, if FALSE,

this function uses the rvest package, default TRUE.

quiet A boolean TRUE or FALSE. If TRUE, no messages will be printed during down-

load. FALSE by default, messages printed for every version downloaded show-

ing 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

hv <- clinicaltrials_gov_download("NCT00942747")</pre>

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, polite = TRUE)
```

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.

polite If TRUE, this function uses the polite package to download data, if FALSE,

this function uses the rvest package, default TRUE.

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, sponsors, reason why the trial stopped (if provided), whether results are posted, and references data

Examples

```
version <- clinicaltrials_gov_version("NCT00942747", 1)</pre>
```

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