

# Package: clinTrialData (via r-universe)

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**Title** Clinical Trial Example Datasets

**Version** 0.1.3

**Description** A collection of clinical trial example datasets from multiple sources including the CDISC Pilot 01 study (CDISC <<https://www.cdisc.org/>>). All datasets are provided in Parquet format for efficient storage and can be accessed using the 'connector' package. Designed for training, testing, prototyping, and demonstrating clinical data analysis workflows.

**Depends** R (>= 4.1.0)

**License** Apache License (>= 2)

**URL** <https://lovemore-gakava.github.io/clinTrialData/>,  
<https://github.com/Lovemore-Gakava/clinTrialData>

**BugReports** <https://github.com/Lovemore-Gakava/clinTrialData/issues>

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**Language** en-US

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cache_dir	<i>Get the Local Cache Directory</i>
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### Description

Returns the path to the local cache directory where downloaded clinical trial datasets are stored. The location follows the platform-specific user data directory convention via `tools::R_user_dir()`.

You can delete any subdirectory here to remove a cached dataset, or clear the entire directory to free disk space.

### Usage

```
cache_dir()
```

### Value

A character string with the path to the cache directory.

### Examples

```
cache_dir()
```

## Description

The `clinTrialData` package contains clinical trial datasets from multiple sources, stored in Parquet format. Data is accessed using connector functions.

## Available Data Sources

### CDISC Pilot 01 Study:

The CDISC Pilot 01 study data includes both ADaM and SDTM domains.

### ADaM datasets include:

- ADSL: Subject-Level Analysis Dataset
- ADAE: Adverse Events Analysis Dataset
- ADLBC: Laboratory Analysis Dataset (Chemistry)
- ADLBH: Laboratory Analysis Dataset (Hematology)
- ADLBHY: Laboratory Analysis Dataset (Hy's Law)
- ADQSADAS: ADAS-Cog Questionnaire Analysis Dataset
- ADQSCIBC: CIBC Questionnaire Analysis Dataset
- ADQSNPIX: NPI-X Questionnaire Analysis Dataset
- ADTTE: Time-to-Event Analysis Dataset
- ADVS: Vital Signs Analysis Dataset

### SDTM datasets include:

- DM: Demographics
- AE: Adverse Events
- VS: Vital Signs
- LB: Laboratory Test Results
- And 18 additional domains (see `list_data_sources()` for details)

## Usage

Data sources are discovered by scanning the package directory structure. List available datasets with `list_data_sources()`.

Access data using the connection function:

```
# Connect to any data source (e.g., CDISC Pilot data)
db <- connect_clinical_data("cdisc_pilot")

# List available datasets
db$adam$list_content_cnt()

# Read a dataset
```

```
adsl <- db$adam$read_cnt("adsl")

# See all available data sources
list_data_sources()
```

## Data Format

Datasets are stored in Parquet format:

- Columnar storage
- Fast reads
- Compression
- Cross-platform compatibility

## Source

CDISC Pilot 01 Study Data Various clinical trial data sources

## References

CDISC. Clinical Data Interchange Standards Consortium. <https://www.cdisc.org/>

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connect\_clinical\_data *Connect to Clinical Data by Source*

---

## Description

Generic connection function that allows access to any data source in the package. Data sources are automatically discovered by scanning the package's example data directory structure.

## Usage

```
connect_clinical_data(source = "cdisc_pilot")
```

## Arguments

source	Character string specifying the data source. Use <code>list_data_sources()</code> to see all available options.
--------	---

## Value

A connectors object

**Examples**

```

if (interactive()) {
  # Connect to CDISC Pilot data
  db <- connect_clinical_data("cdisc_pilot")

  # List available datasets
  db$adam$list_content_cnt()

  # Read a dataset (requires the arrow package)
  if (requireNamespace("arrow", quietly = TRUE)) {
    adsl <- db$adam$read_cnt("adsl")
  }

  # List available sources
  list_data_sources()
}

```

dataset\_info

*Inspect a Clinical Trial Dataset Without Downloading***Description**

Fetches and displays metadata for any study available in the `clinTrialData` library – without downloading the full dataset. Metadata includes the study description, available domains and datasets, subject count, version, and data source attribution.

For studies already downloaded via `download_study()`, the metadata is read from the local cache and works offline. For studies not yet downloaded, a small JSON file (~2KB) is fetched from the GitHub Release.

**Usage**

```
dataset_info(source, repo = "Lovemore-Gakava/clinTrialData")
```

**Arguments**

source	Character string. Name of the study (e.g. "cdisc_pilot_extended"). Use <a href="#">list_available_studies()</a> to see all options.
repo	GitHub repository in the form "owner/repo". Defaults to the official <code>clinTrialData</code> release repository.

**Value**

Invisibly returns the metadata as a named list.

**Examples**

```
dataset_info("cdisc_pilot")
```

---

`download_study`*Download a Clinical Trial Study Dataset*

---

### Description

Downloads a study dataset from a GitHub Release and stores it in the local cache (see `cache_dir()`). Once downloaded, the study is available to `connect_clinical_data()` without an internet connection.

Requires the piggyback package.

### Usage

```
download_study(  
  source,  
  version = "latest",  
  force = FALSE,  
  repo = "Lovemore-Gakava/clinTrialData"  
)
```

### Arguments

<code>source</code>	Character string. The name of the study to download (e.g. "cdisc_pilot"). Use <code>list_available_studies()</code> to see all options.
<code>version</code>	Character string. The release tag to download from. Defaults to "latest", which resolves to the most recent release.
<code>force</code>	Logical. If TRUE, re-download even if the study is already cached. Defaults to FALSE.
<code>repo</code>	GitHub repository in the form "owner/repo". Defaults to the official <code>clinTrialData</code> release repository.

### Value

Invisibly returns the path to the cached study directory.

### Examples

```
if (interactive()) {  
  # Download a study not bundled with the package  
  download_study("cdisc_pilot_extended")  
  
  # Then connect as usual  
  db <- connect_clinical_data("cdisc_pilot_extended")  
}
```

---

`list_available_studies`*List Studies Available for Download*

---

### Description

Returns a data frame of all clinical trial studies available as GitHub Release assets, along with their local cache status. Studies marked as `cached = TRUE` are already downloaded and available for use with `connect_clinical_data()` without an internet connection.

When GitHub is unreachable, the function falls back to the last successfully fetched listing (if available) and issues a warning. The `cached` column is always recomputed from the local filesystem.

Requires the piggyback package.

### Usage

```
list_available_studies(repo = "Lovemore-Gakava/clinTrialData")
```

### Arguments

`repo` GitHub repository in the form "owner/repo". Defaults to the official `clinTrialData` release repository.

### Value

A data frame with columns:

**source** Study name (pass this to `download_study()` or `connect_clinical_data()`)

**version** Release tag the asset belongs to

**size\_mb** Asset size in megabytes

**cached** TRUE if the study is already in the local cache

### Examples

```
if (interactive()) {  
  list_available_studies()  
}
```

---

list\_data\_sources      *List Available Clinical Data Sources*

---

### Description

Returns information about all clinical datasets available locally – both datasets bundled with the package and any datasets previously downloaded via `download_study()`. The location column indicates whether a dataset is "bundled" (shipped with the package) or "cached" (downloaded to the user cache directory).

To see datasets available for download from GitHub, use `list_available_studies()`.

### Usage

```
list_data_sources()
```

### Value

A data frame with columns:

**source** Dataset name (pass to `connect_clinical_data()`)

**description** Human-readable study description

**domains** Comma-separated list of available data domains (e.g. "adam, sdtm")

**format** Storage format ("parquet")

**location** Either "bundled" or "cached"

### Examples

```
list_data_sources()
```

---

remove\_cnt.ConnectorLockedFS

*Remove Content with Lock Check*

---

### Description

S3 method for remove\_cnt that checks if the study folder is locked before allowing remove operations.

### Usage

```
## S3 method for class 'ConnectorLockedFS'
remove_cnt(connector_object, name, ...)
```

**Arguments**

connector_object	The ConnectorLockedFS object
name	The file name to remove
...	Additional arguments passed to the underlying connector

**Value**

Invisible connector\_object

---

```
write_cnt.ConnectorLockedFS
```

*Write Content with Lock Check*

---

**Description**

S3 method for write\_cnt that checks if the study folder is locked before allowing write operations.

**Usage**

```
## S3 method for class 'ConnectorLockedFS'
write_cnt(connector_object, x, name, overwrite = FALSE, ...)
```

**Arguments**

connector_object	The ConnectorLockedFS object
x	The data to write
name	The file name
overwrite	Whether to overwrite existing files
...	Additional arguments passed to the underlying connector

**Value**

Invisible connector\_object

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