

# Package ‘kidsides’

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**Title** Download, Cache, and Connect to KidSIDES

**Version** 0.4.1

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**Description** Caches and then connects to a 'sqlite' database containing half a million pediatric drug safety signals.

The database is part of a family of resources catalogued at <<https://nsides.io>>. The database contains 17 tables where the description table provides a map between the fields the field's details. The database was created by Nicholas Giangreco during his PhD thesis which you can read in Giangreco (2022) <[doi:10.7916/d8-5d9b-6738](https://doi.org/10.7916/d8-5d9b-6738)>.

The observations are from the Food and Drug Administration's Adverse Event Reporting System. Generalized additive models estimated drug effects across child development stages for the occurrence of an adverse event when exposed to a drug compared to other drugs.

Read more at the methods detailed in Giangreco (2022) <[doi:10.1016/j.medj.2022.06.001](https://doi.org/10.1016/j.medj.2022.06.001)>.

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**Encoding** UTF-8

**RoxygenNote** 7.2.2

**Imports** DBI, RSQLite, R.utils, tools

**Suggests** ggplot2, dbplyr, tidyr, stringr, ggthemes, rlang, ggrepel, scales, pacman, dplyr, rmarkdown, knitr, covr, testthat (>= 3.0.0)

**URL** <https://github.com/ngiangre/kidsides>,  
<https://ngiangre.github.io/kidsides/>, <https://nsides.io>

**VignetteBuilder** knitr

**Depends** R (>= 4.0)

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

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connect_sqlite_db	<i>Connect to the Pediatric Drug Safety database</i>
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**Description**

Establish a sqlite connection from the downloaded database.

**Usage**

```
connect_sqlite_db()
```

**Value**

SQLite connection

**Examples**

```
if(interactive()){
  download_sqlite_db()
  con <- connect_sqlite_db()
  disconnect_sqlite_db(con)
}
```

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disconnect_sqlite_db	<i>Disconnect from the Pediatric Drug Safety database</i>
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**Description**

Disconnect the sqlite database connection.

**Usage**

```
disconnect_sqlite_db(con)
```

**Arguments**

con	The sqlite connection
-----	-----------------------

**Value**

TRUE, invisibly

**Examples**

```
if(interactive()){
  download_sqlite_db()
  con <- connect_sqlite_db()
  disconnect_sqlite_db(con)
}
```

---

download\_sqlite\_db      *Download the Pediatric Drug Safety database*

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**Description**

Download the database published in Giangreco et al. 2022. Warning, the size of the uncompressed 'sqlite' file is close to 900 MB. Use wit caution

**Usage**

```
download_sqlite_db(
  method = "auto",
  quiet = FALSE,
  timeout = 1000,
  force = FALSE
)
```

**Arguments**

method	The method to download the sqlite database. See <code>download.file</code>
quiet	Whether to download quietly. See <code>download.file</code>
timeout	Extended download session for downloading this file. Default is 1000 seconds.
force	Whether to force the download of the database. Defaults to FALSE.

**Value**

TRUE, invisibly

**Examples**

```
if(interactive()){
  download_sqlite_db()
}
```

---

`get_db_path`*Return database cache*

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**Description**

This function identifies and returns the cache location for the database on your machine

**Usage**

```
get_db_path()
```

**Value**

list

**Examples**

```
get_db_path()
```

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