

# Package ‘nlmixr2’

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**Title** Nonlinear Mixed Effects Models in Population PK/PD

**Version** 4.0.0

**Description** Fit and compare nonlinear mixed-effects models in differential equations with flexible dosing information commonly seen in pharmacokinetics and pharmacodynamics (Almquist, Leander, and Jirstrand 2015 <[doi:10.1007/s10928-015-9409-1](https://doi.org/10.1007/s10928-015-9409-1)>). Differential equation solving is by compiled C code provided in the 'rxode2' package (Wang, Hallow, and James 2015 <[doi:10.1002/psp4.12052](https://doi.org/10.1002/psp4.12052)>).

**License** GPL (>= 3)

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Imports** cli (>= 1.0.0), crayon (>= 1.3.4), dplyr (>= 0.7.4), purrr (>= 0.2.4), rstudioapi (>= 0.7), nlmixr2est (>= 2.2.2), nlmixr2extra (>= 2.0.10), rxode2 (>= 2.1.3), lotri (>= 0.4.3), nlmixr2plot (>= 2.0.8), tibble, magrittr, crayon, cli

**Suggests** rmarkdown, knitr, devtools, ggplot2, testthat, n1qn1, withr

**BugReports** <https://github.com/nlmixr2/nlmixr2/issues/>

**URL** <https://nlmixr2.org/>, <https://github.com/nlmixr2/nlmixr2/>

**NeedsCompilation** no

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## Contents

nlmixr2CheckInstall . . . . .	2
nlmixr2conflicts . . . . .	2
nlmixr2deps . . . . .	3
nlmixr2packages . . . . .	3
nlmixr2update . . . . .	4

## Index

5

**nlmixr2CheckInstall**     *Check your nlmixr2 installation for potential issues*

### Description

Check your nlmixr2 installation for potential issues

### Usage

```
nlmixr2CheckInstall()
```

### Examples

```
nlmixr2CheckInstall()
```

**nlmixr2conflicts**     *Conflicts between the nlmixr2 and other packages*

### Description

This function lists all the conflicts between packages in the nlmixr2 and other packages that you have loaded.

### Usage

```
nlmixr2conflicts()
```

### Details

If dplyr is one of the select packages, then the following four conflicts are deliberately ignored: intersect, union, setequal, and setdiff from dplyr. These functions make the base equivalents generic, so shouldn't negatively affect any existing code.

**Examples**

```
nlmixr2conflicts()
```

---

**nlmixr2deps**

*List all nlmixr2 dependencies*

---

**Description**

List all nlmixr2 dependencies

**Usage**

```
nlmixr2deps(recursive = FALSE)
```

**Arguments**

**recursive**      If TRUE, will also list all dependencies of nlmixr2 packages.

---

**nlmixr2packages**

*List all packages in the nlmixr2*

---

**Description**

List all packages in the nlmixr2

**Usage**

```
nlmixr2packages(include_self = TRUE)
```

**Arguments**

**include\_self**      Include nlmixr2 in the list?

**Examples**

```
nlmixr2packages()
```

---

**nlmixr2update**      *Update nlmixr2 packages*

---

## Description

This will check to see if all nlmixr2 packages (and optionally, their dependencies) are up-to-date, and will install after an interactive confirmation.

## Usage

```
nlmixr2update(recursive = FALSE)
```

## Arguments

`recursive`      If TRUE, will also check all dependencies of nlmixr2 packages.

## Examples

```
## Not run:  
nlmixr2update()  
  
## End(Not run)
```

# Index

`nlmixr2CheckInstall`, 2  
`nlmixr2conflicts`, 2  
`nlmixr2deps`, 3  
`nlmixr2packages`, 3  
`nlmixr2update`, 4