

# Package ‘rscssci’

May 9, 2026

**Type** Package

**Title** Visualization of Restricted Cubic Splines

**Version** 0.4.0

**Maintainer** Zhiqiang Nie <niezhiqiang@gdph.org.cn>

**Description** Restricted Cubic Splines were performed to explore the shape of association form of ``U, inverted U, L" shape and test linearity or non-linearity base on ``Cox,Logistic,linear,quasipoisson" regression, and auto output Restricted Cubic Splines figures. rscssci package could automatically draw RCS graphics with Y-axis ``OR,HR,RR,beta". The Restricted Cubic Splines method were based on Suli Huang (2022) <[doi:10.1016/j.ecoenv.2022.113183](https://doi.org/10.1016/j.ecoenv.2022.113183)>, Amit Kaura (2019) <[doi:10.1136/bmj.16055](https://doi.org/10.1136/bmj.16055)>, and Harrell Jr (2015, ISBN:978-3-319-19424-0 (Print) 978-3-319-19425-7 (Online)).

**Depends** R (>= 4.2.0)

**LazyData** true

**Imports** pacman, rms, ggplot2, survminer, segmented, survival, dplyr, patchwork, Cairo

**Encoding** UTF-8

**License** Artistic-2.0

**BugReports** <https://github.com/popnie/RCSsci/issues>

**RoxygenNote** 7.2.1

**NeedsCompilation** no

**Author** Zhiqiang Nie [aut, cre, cph] (ORCID = 0000-0001-7642-3286, wechat = Biostatistics-SCI), JunZhang [ctb], Chaolei Chen [ctb]

**Repository** CRAN

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rcssci_cox	<i>rcssci_cox</i>
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## Description

restricted cubic splines (RCS) published in SCI.

## Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
time	sensor time
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

**Details**

Cox models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

message.print PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcssci_cox(data=sbpdata, y = "status",x = "sbp",time = "time",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcssci_cox(knot=4,data=sbpdata, y = "status",x = "sbp",covs=c("age"),
# time = "time", prob=0.1,filepath="D:/temp")
```

---

rcssci\_linear

*rcssci\_linear*


---

**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

**Details**

linear models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

message.print PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcssci_linear(data=sbpdata, y = "sbp", x = "age",
prob=0.1, filepath=tempdir())
# library(rcssci)
# rcssci_linear(knot=4, data=sbpdata, y = "sbp", x = "age",
# covs=c("gender"), prob=0.1, filepath="D:/temp")
```

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rcssci_logistic	<i>rcssci_logistic</i>
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**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter, range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

**Details**

logistic models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U, J, S, L, log, -log, temporary plateau shape)

**Value**

message.print PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcssci_logistic(data=sbpdata, y = "status",x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcssci_logistic(knot=4,data=sbpdata, y = "status",x = "sbp",
# covs=c("age","gender"),prob=0.1,filepath="D:/temp")
```

---

```
rcssci_quasipoisson    rcssci_quasipoisson
```

---

**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

**Details**

quasipoisson models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

message.print PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcssci_quasipoisson(data=sbpdata, y = "status",x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcssci_quasipoisson(knot=4,data=sbpdata, y = "status",x = "sbp",
# covs=c("age","gender"),prob=0.1,filepath="D:/temp")
```

---

 rcox.lshap

*rcox.lshap*


---

### Description

restricted cubic splines (RCS) published in SCI.

### Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
time	censor time
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

### Details

Cox models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

### Value

message.print PH assumption and other message

### Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

### Examples

```
library(rcssci)
rcox.lshap(data=sbpdata, y = "status", x = "sbp", time = "time",
prob=0.1, filepath=tempdir())
# library(rcssci)
# rcox.lshap(knot=4, data=sbpdata, y = "status", x = "sbp", covs=c("age"),
# time = "time", prob=0.1, filepath="D:/temp")
```

---

rcox.nshap	<i>rcox.nshap</i>
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---

## Description

restricted cubic splines (RCS) published in SCI.

## Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
time	censor time
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

## Details

Cox models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

## Value

message.print PH assumption and other message

## Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

## Examples

```
library(rcssci)
rcox.nshap(data=sbpdata, y = "status", x = "sbp", time = "time",
prob=0.1, filepath=tempdir())
# library(rcssci)
# rcox.nshap(knot=4, data=sbpdata, y = "status", x = "sbp", covs=c("age"),
# time = "time", prob=0.1, filepath="D:/temp")
```

---

`rcs_cox.prob`*rsc\_cox.prob*

---

**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

<code>data</code>	<code>data.frame.Rdata</code>
<code>knot</code>	<code>knot=3-7</code> or automatic calculate by AIC min
<code>y</code>	<code>outcome=0,1</code>
<code>time</code>	sensor time
<code>covs</code>	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
<code>prob</code>	position parameter, range from 0-1
<code>x</code>	main exposure and X-axis when plotting
<code>filepath</code>	path of plots output.

**Details**

Cox models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U, J, S, L, log, -log, temporary plateau shape)

**Value**

`message.print` PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rsc_cox.prob(data=sbpdata, y = "status", x = "sbp", time = "time",
prob=0.1, filepath=tempdir())
# library(rcssci)
# rsc_cox.prob(knot=4, data=sbpdata, y = "status", x = "sbp", covs=c("age"),
# time = "time", prob=0.1, filepath="D:/temp")
```

---

rcox.ushap	<i>rcox.ushap</i>
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---

## Description

restricted cubic splines (RCS) published in SCI.

## Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
time	censor time
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

## Details

Cox models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

## Value

message.print PH assumption and other message

## Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

## Examples

```
library(rcssci)
rcox.ushap(data=sbpdata, y = "status", x = "sbp", time = "time",
prob=0.1, filepath=tempdir())
# library(rcssci)
# rcox.ushap(knot=4, data=sbpdata, y = "status", x = "sbp", covs=c("age"),
# time = "time", prob=0.1, filepath="D:/temp")
```

---

rcs_linear.lshap	<i>rcs_linear.lshap</i>
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**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

**Details**

linear models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

message.print PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcs_linear.lshap(data=sbpdata, y = "sbp", x = "age",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcs_linear.lshap(knot=4,data=sbpdata, y = "sbp", x = "age",
# covs=c("gender"),prob=0.1,filepath="D:/temp")
```

---

rcs_linear.nshap	<i>rcs_linear.nshap</i>
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**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

**Details**

linear models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

message.print PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcs_linear.nshap(data=sbpdata, y = "sbp", x = "age",
prob=0.1,filepath=tempdir())
# library(rcssci
# rcs_linear.nshap(knot=4,data=sbpdata, y = "sbp", x = "age",
# covs=c("gender"),prob=0.1,filepath="D:/temp")
```

---

rcs_linear.prob	<i>rcs_linear.prob</i>
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---

**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

**Details**

linear models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

message.print PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcs_linear.prob(data=sbpdata, y = "sbp", x = "age",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcs_linear.prob(knot=4,data=sbpdata, y = "sbp", x = "age",
# covs=c("gender"),prob=0.1,filepath="D:/temp")
```

---

rzs_linear.ushap	<i>rzs_linear.ushap</i>
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---

## Description

restricted cubic splines (RCS) published in SCI.

## Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

## Details

linear models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

## Value

message.print PH assumption and other message

## Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

## Examples

```
library(rcssci)
rzs_linear.ushap(data=sbpdata, y = "sbp", x = "age",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rzs_linear.ushap(knot=4,data=sbpdata, y = "sbp", x = "age",
# covs=c("gender"),prob=0.1,filepath="D:/temp")
```

---

rcs\_logistic.lshap     *rcs\_logistic.lshap*

---

### Description

restricted cubic splines (RCS) published in SCI.

### Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

### Details

logistic models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

### Value

message.print PH assumption and other message

### Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

### Examples

```
library(rcssci)
rcs_logistic.lshap(data=sbpdata, y = "status",x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcs_logistic.lshap(knot=4,data=sbpdata, y = "status",x = "sbp",
# covs=c("age", "gender"),prob=0.1,filepath="D:/temp")
```

---

rsc\_logistic.nshap      *rsc\_logistic.nshap*

---

## Description

restricted cubic splines (RCS) published in SCI.

## Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

## Details

logistic models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

## Value

message.print PH assumption and other message

## Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

## Examples

```
library(rcssci)
rsc_logistic.nshap(data=sbpdata, y = "status",x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rsc_logistic.nshap(knot=4,data=sbpdata, y = "status",x = "sbp",
# covs=c("age","gender"),prob=0.1,filepath="D:/temp")
```

---

rcs\_logistic.prob      *rcs\_logistic.prob*

---

### Description

restricted cubic splines (RCS) published in SCI.

### Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

### Details

logistic models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

### Value

message.print PH assumption and other message

### Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

### Examples

```
library(rcssci)
rcs_logistic.prob(data=sbpdata, y = "status", x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcs_logistic.prob(knot=4,data=sbpdata, y = "status",x = "sbp",
# covs=c("age","gender"),prob=0.1,filepath="D:/temp")
```

---

rsc\_logistic.ushap      *rsc\_logistic.ushap*

---

## Description

restricted cubic splines (RCS) published in SCI.

## Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

## Details

logistic models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

## Value

message.print PH assumption and other message

## Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

## Examples

```
library(rcssci)
rsc_logistic.ushap(data=sbpdata, y = "status",x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rsc_logistic.ushap(knot=4,data=sbpdata, y = "status",x = "sbp",
# covs=c("age", "gender"),prob=0.1,filepath="D:/temp")
```

---

`rcs_quasipoisson.lshap`*rcs\_quasipoisson.lshap*

---

**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

<code>data</code>	<code>data.frame.Rdata</code>
<code>knot</code>	<code>knot=3-7</code> or automatic calculate by AIC min
<code>y</code>	<code>outcome=0,1</code>
<code>covs</code>	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
<code>prob</code>	position parameter,range from 0-1
<code>x</code>	main exposure and X-axis when plotting
<code>filepath</code>	path of plots output.

**Details**

quasipoisson models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

`message.print` PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcs_quasipoisson.lshap(data=sbpdata, y = "status",x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rcs_quasipoisson.lshap(knot=4,data=sbpdata, y = "status",x = "sbp",
# covs=c("age","gender"),prob=0.1,filepath="D:/temp")
```

---

`rcs_quasipoisson.nshap`*rcs\_quasipoisson.nshap*

---

## Description

restricted cubic splines (RCS) published in SCI.

## Arguments

<code>data</code>	<code>data.frame.Rdata</code>
<code>knot</code>	<code>knot=3-7</code> or automatic calculate by AIC min
<code>y</code>	<code>outcome=0,1</code>
<code>covs</code>	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
<code>prob</code>	position parameter,range from 0-1
<code>x</code>	main exposure and X-axis when plotting
<code>filepath</code>	path of plots output.

## Details

quasipoisson models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

## Value

`message.print` PH assumption and other message

## Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

## Examples

```
library(rcssci)
rcs_quasipoisson.nshap(data=sbpdata, y = "status", x = "sbp",
prob=0.1, filepath=tempdir())
# library(rcssci)
# rcs_quasipoisson.nshap(knot=4, data=sbpdata, y = "status", x = "sbp",
# covs=c("age", "gender"), prob=0.1, filepath="D:/temp")
```

---

rqs\_quasipoisson.pro *rqs\_quasipoisson.pro*

---

### Description

restricted cubic splines (RCS) published in SCI.

### Arguments

data	data.frame.Rdata
knot	knot=3-7 or automatic calculate by AIC min
y	outcome=0,1
covs	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
prob	position parameter,range from 0-1
x	main exposure and X-axis when plotting
filepath	path of plots output.

### Details

quasipoisson models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

### Value

message.print PH assumption and other message

### Author(s)

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

### Examples

```
library(rcssci)
rqs_quasipoisson.pro(data=sbpdata, y = "status", x = "sbp",
prob=0.1,filepath=tempdir())
# library(rcssci)
# rqs_quasipoisson.pro(knot=4,data=sbpdata, y = "status", x = "sbp",
# covs=c("age", "gender"),prob=0.1,filepath="D:/temp")
```

---

`rcs_quasipoisson.ushap`*rcs\_quasipoisson.ushap*

---

**Description**

restricted cubic splines (RCS) published in SCI.

**Arguments**

<code>data</code>	<code>data.frame.Rdata</code>
<code>knot</code>	<code>knot=3-7</code> or automatic calculate by AIC min
<code>y</code>	<code>outcome=0,1</code>
<code>covs</code>	covariables, univariate analysis without "covs" command, multivariable analysis with "covs" command
<code>prob</code>	position parameter,range from 0-1
<code>x</code>	main exposure and X-axis when plotting
<code>filepath</code>	path of plots output.

**Details**

quasipoisson models with RCS splines were performed to explore the shape linear or nonlinear(U, inverted U,J,S,L,log,-log,temporary plateau shape)

**Value**

`message.print` PH assumption and other message

**Author(s)**

Zhiqiang Nie, <niezhiqiang@gdph.org.cn>

**Examples**

```
library(rcssci)
rcs_quasipoisson.ushap(data=sbpdata, y = "status", x = "sbp",
prob=0.1, filepath=tempdir())
# library(rcssci)
# rcs_quasipoisson.ushap(knot=4, data=sbpdata, y = "status", x = "sbp",
# covs=c("age", "gender"), prob=0.1, filepath="D:/temp")
```

---

sbpdata

*A data on sbp and status.*

---

**Description**

A data on sbp and status.

**Usage**

```
data(sbpdata)
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 3621 rows and 5 columns.

**Examples**

```
data(sbpdata)
```

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