

Package ‘collett’

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Type Package

Title Datasets from “Modelling Survival Data in Medical Research” by Collett

Version 0.1.0

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Description Datasets for the book entitled “Modelling Survival Data in Medical Research” by Collett (2023) <[doi:10.1201/9781003282525](https://doi.org/10.1201/9781003282525)>. The datasets provide extensive examples of time-to-event data.

URL <https://github.com/mclements/collett>

BugReports <https://github.com/mclements/collett/issues>

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Depends R (>= 3.5.0)

Imports utils

Suggests survival

Encoding UTF-8

RoxygenNote 7.3.2

LazyData true

NeedsCompilation no

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active_hepatitis	<i>Chronic active hepatitis</i>
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Description

Clinical trial of 44 patients with chronic active hepatitis randomised to either the drug prednisolone or an untreated control group.

Usage

active_hepatitis

Format

A data frame with 44 rows and 3 variables:

```
treatment integer treatment (1=prednisolone, 2=control)
time integer survival time from admission to study (months)
status integer event indicator (1=event, 0=right censored)
```

Details

See Collett (2023)

bcancer

Prognosis for women with breast cancer

Description

For female breast cancer patients from Middlesex Hospital. The dataset includes the result of staining using Helix pomatia agglutinin (HPA).

Usage

```
bcancer
```

Format

A data frame with 45 rows and 3 variables:

```
stain integer for negative staining (=1) or positive staining (=2)
time integer time in months for survival
status integer for status at end of follow-up (0=censored, 1=death)
```

Details

For details about the study design, see Leathem and Brooks (1987).

The dataset is described in Example 1.2 and Table 1.2 (Collett, 2023, pages 6-7).

References

Leathem AJ, Brooks S. Predictive value of lectin binding on breast-cancer recurrence and survival. *The Lancet*. 1987 May 9;329(8541):1054-6. doi:10.1016/S01406736(87)90482X

Examples

```
library(survival)
plot(survfit(Surv(time,status)~stain, data=bcancer), col=1:2, xlab="Survival time (months)",
ylab="Survival")
legend("topright", legend=c("Negative staining","Positive staining"), col=1:2, lty=1,
bty="n")
```

bladder *Recurrence of bladder cancer*

Description

Placebo controlled trial of bladder cancer patients randomised to thiotepa or to placebo

Usage

bladder

Format

A data frame with 86 rows and 6 variables:

patient integer patient number (1-86)

time integer survival time in months

status integer status of patient (0=censored, 1=recurrence)

treat integer treatment group (1=placebo, 2=thiotepa)

init integer initial number of tumours

size integer diameter of larger initial tumour in cm

Details

See Collett (2023)

bone_marrow *Bone marrow transplantation*

Description

A study of 37 patients with leukaemia in complete remission who received a non-depleted allogenic bone marrow transplant.

Usage

bone_marrow

Format

A data frame with 37 rows and 9 variables:

patient integer patient number (1-37)
 time integer survival time in days
 status integer status of patient (0=alive, 1=dead)
 rage integer age of patient in years
 dage integer age of donor in years
 type integer type of leukaemia (1=AML, 2=ALL, 3=CML)
 preg integer Donor pregnancy (0=no, 1=yes)
 index double index of cell-lymphocyte reactions
 gvhd integer graft-versus-host disease (0=no, 1=yes)

Details

See Collett (2023)

bone_marrow_tx	<i>Patient outcome following bone marrow transplantation</i>
----------------	--

Description

Patient outcome following bone marrow transplantation

Usage

bone_marrow_tx

Format

A data frame with 2204 rows and 9 variables:

id integer patient id
 leukaemia character type of leukaemia (CML,ALL,AML)
 age character age group of patient in years (<=20, 21-40, >40))
 match integer indicator for whether there was a donor gender match (0=no, 1=yes)
 tcell integer indicator for whether there was T-cell depletion (1=yes, n=no)
 ptime integer time to platelet recovery (days)
 pcens integer event indicator for platelet recovery (1=event, 0=censored)
 rctime integer time to relapse of death (days)
 rdcens integer event indicator for relapse or death (1=event, 0=censored)

Details

See Collett (2023)

breast_rfs	<i>Recurrence free survival in breast cancer patients</i>
------------	---

Description

Recurrence free survival in breast cancer patients

Usage

breast_rfs

Format

A data frame with 686 rows and 11 variables:

id integer patient id

treat integer hormonal treatment (0=no tamoxifen, 1=tamoxifen)

age integer patient age (years)

men integer menopausal status (1=premenopausal, 2=postmenopausal)

size integer tumour size (mm)

grade integer tumour grade (1,2,3)

nodes integer number of positive lymph nodes

prog integer progesterone receptor status (femtomoles)

oest integer oestrogen receptor status (femtomoles)

time integer recurrence-free survival time (days)

status integer event indicator (0=censored, 1=relapse or death)

Details

See Collett (2023)

Datasets

Datasets

Description

The datasets are based on the official .zip file. A table for the dataset names and file names sorted by file name is here:

Dataset name	File name
illustration	"A numerical illustration.dat"
leukaemia	"Bone marrow transplantation in the treatment of leukaemia.dat"
bone_marrow	"Bone marrow transplantation.dat"
ovarian	"Chemotherapy in ovarian cancer patients.dat"
active_hepatitis	"Chronic active hepatitis.dat"
granulomatous	"Chronic granulomatous disease.dat"
tamoxifen	"Clinical trial of tamoxifen in breast cancer patients.dat"
prostatic	"Comparison of two treatments for prostatic cancer.dat"
kidneytx	"Comparisons between kidney transplant centres.dat"
liverbase	"Data from a cirrhosis study (baseline).dat"
liver_counting	"Data from a cirrhosis study (in counting process format).dat"
lbrdata0	"Data from a cirrhosis study (lbr data).dat"
HELP	"Health evaluation and linkage to primary care.dat"
dialysis	"Infection in patients on dialysis.dat"
bone_marrow_tx	"Patient outcome following bone marrow transplantation.dat"
bcancer	"Prognosis for women with breast cancer.dat"
pulmonary	"Pulmonary metastasis.dat"
breast_rfs	"Recurrence free survival in breast cancer patients.dat"
ulcer	"Recurrence of an ulcer.dat"
bladder	"Recurrence of bladder cancer.dat"
mammary	"Recurrence of mammary tumours in female rats.dat"
valve	"Survival following aortic valve replacement.dat"
tplant	"Survival following kidney transplantation.dat"
ducks	"Survival of black ducks.dat"
mice	"Survival of laboratory mice.dat"
liver	"Survival of liver transplant recipients.dat"
myeloma	"Survival of multiple myeloma patients.dat"
lung	"Survival of patients registered for a lung transplant.dat"
gcancer	"Survival of patients with gastric cancer.dat"
melanoma	"Survival times of patients with melanoma .dat"
livertx	"Time to death while waiting for a liver transplant.dat"
IUD	"Time to discontinuation of the use of an IUD.dat"
kidney	"Treatment of hypernephroma.dat"

And now sorted by the dataset names:

Dataset name	File name
active_hepatitis	"Chronic active hepatitis.dat"
bcancer	"Prognosis for women with breast cancer.dat"
bladder	"Recurrence of bladder cancer.dat"

bone_marrow	"Bone marrow transplantation.dat"
bone_marrow_tx	"Patient outcome following bone marrow transplantation.dat"
breast_rfs	"Recurrence free survival in breast cancer patients.dat"
dialysis	"Infection in patients on dialysis.dat"
ducks	"Survival of black ducks.dat"
gcancer	"Survival of patients with gastric cancer.dat"
granulomatous	"Chronic granulomatous disease.dat"
HELP	"Health evaluation and linkage to primary care.dat"
illustration	"A numerical illustration.dat"
IUD	"Time to discontinuation of the use of an IUD.dat"
kidney	"Treatment of hypernephroma.dat"
kidneytx	"Comparisons between kidney transplant centres.dat"
lbrdata0	"Data from a cirrhosis study (lbr data).dat"
leukaemia	"Bone marrow transplantation in the treatment of leukaemia.dat"
liver	"Survival of liver transplant recipients.dat"
liver_counting	"Data from a cirrhosis study (in counting process format).dat"
liverbase	"Data from a cirrhosis study (baseline).dat"
livertx	"Time to death while waiting for a liver transplant.dat"
lung	"Survival of patients registered for a lung transplant.dat"
mammary	"Recurrence of mammary tumours in female rats.dat"
melanoma	"Survival times of patients with melanoma .dat"
mice	"Survival of laboratory mice.dat"
myeloma	"Survival of multiple myeloma patients.dat"
ovarian	"Chemotherapy in ovarian cancer patients.dat"
prostatic	"Comparison of two treatments for prostatic cancer.dat"
pulmonary	"Pulmonary metastasis.dat"
tamoxifen	"Clinical trial of tamoxifen in breast cancer patients.dat"
tplant	"Survival following kidney transplantation.dat"
ulcer	"Recurrence of an ulcer.dat"
valve	"Survival following aortic valve replacement.dat"

As an alternative to using the R datasets, the `collett_data` function allows for reading from the original .dat files that are stored in the package.

Usage

```
collett_data(name)
```

Arguments

name Character string with the original filename

Value

A data-frame

Author(s)

Maintainer: Mark Clements <mark.clements@ki.se> ([ORCID](#))

Source

<https://s3-eu-west-1.amazonaws.com/s3-euw1-ap-pe-ws4-cws-documents.ri-prod/9781032252858/Data%20sets%20from%20Modelling%20Survival%20Data%20in%20Medical%20Research%2C%204th%20edition.zip>

See Also

Useful links:

- <https://github.com/mclements/collett>
- Report bugs at <https://github.com/mclements/collett/issues>

Examples

```
head(collett_data("A numerical illustration.dat"))  
## which is equivalent to: head(illustration)
```

dialysis

Infection in patients on dialysis

Description

Time from dialysis to infection for patients with diseases of the kidney.

Usage

```
dialysis
```

Format

A data frame with 13 rows and 5 variables:

```
patient integer patient id  
time integer time to infection (days)  
status integer event indicator (0=censored, 1=infection)  
age integer age in years  
sex integer sex of the patient (1=male, 2=female)
```

Details

See Collett (2023)

ducks *Survival of black ducks*

Description

Black ducks, *Anas rubripes*, were followed the US Fish and Wildlife Service.

Usage

ducks

Format

A data frame with 50 rows and 6 variables:

duck integer duck indicator

time integer survival time in days

status integer status of bird (0=alive or missing, 1=dead)

age integer age group (0=hatch-year bird, 1=bird aged ≥ 1 year)

weight integer weight of bird in g

length integer length of wing in mm

Details

See Collett (2023)

gcancer *Survival of patients with gastric cancer*

Description

Survival of patients with gastric cancer

Usage

gcancer

Format

A data frame with 90 rows and 4 variables:

patient integer patient id

time integer survival time in days

status integer event indicator (0=censored, 1=dead)

treat integer treatment arm (0=chemotherapy alone, 1=chemotherapy and radiotherapy)

Details

See Collett (2023)

granulomatous	<i>Chronic granulomatous disease</i>
---------------	--------------------------------------

Description

Trial comparing interferon with a placebo.

Usage

granulomatous

Format

A data frame with 128 rows and 12 variables:

patient integer patient number (1-128)

time integer time to first infection (days)

status integer status of patient (0=censored, 1=infection)

centre integer treatment centre; see Collett (2023, page 504)

treat integer treatment group (0=placebo, 1=interferon)

age integer age in years

sex integer sex (1=male, 2=female)

height double height in cm

weight double weight in kg

pattern integer pattern of inheritance (1=X-linked, 2=autosomal recessive)

cort integer use of corticosteroids at trial entry (1=used, 2=not used)

anti integer Use of antibiotics at trial entry (1=used, 2=not used)

Details

See Collett (2023)

 HELP

Health evaluation and linkage to primary care

Description

A clinical trial for patients in a residential detoxification programme. Patients were randomised to either get a referral to a HELP clinic or not.

Usage

HELP

Format

A data frame with 447 rows and 7 variables:

subject integer subject id

days integer time to linkage to primary care in days

status integer event indicator (0=no linkage, 1=linkage)

age integer age of patient in years

gender integer gender of the patient (0=female, 1=male)

housing integer Homelessness status (0=homeless, 1=housed)

linkage integer assistance to linking to healthcare (0=no, 1=yes)

Details

Collett (2023) defines this dataset as "help", however that leads to issues with using R's help system. We have changed the dataset name to "HELP". Moreover, the book uses the variables "Time" and "Help", whereas the dataset includes variables "days" and "linkage", respectively.

 illustration

A numerical illustration

Description

Artificial data on patient survival classified according to factors a and b

Usage

illustration

Format

A data frame with 37 rows and 4 variables:

a integer factor a

b integer factor b

time integer event time

status integer event status (1=event, 0=right censored)

Details

See Collett (2023).

IUD	<i>Time to discontinuation of the use of an IUD</i>
-----	---

Description

A very simple dataset showing potential right censoring for time to discontinuation of the use of an IUD.

Usage

IUD

Format

A data frame with 18 rows and 2 variables:

time integer Time in weeks to discontinuation of the use of an IUD

status integer Indicator for whether the IUD was discontinued: 0=No, 1=Yes

Details

These data are reported in Table 1.1 (Collett, 2023, page 6).

kidney

Treatment of hypernephroma

Description

This study was undertaken at the University of Oklahoma Health Sciences Center to investigate survival among 36 patients with a kidney tumour (hypernephroma). Standard treatment included chemotherapy and immunotherapy, with some patients also having a nephrectomy, or surgical removal of the kidney. For further details, see Lee and Wang (2013).

Usage

kidney

Format

A data frame with 36 rows and 4 variables:

nephrectomy integer indicator for nephrectomy (0=No; 1=Yes)

age integer age group (1=<60; 2=60-70; 3=>70)

time integer for the follow-up time in months

status integer for status at the end of follow-up (1=died; 0=censored)

References

Lee ET, Wang J. Statistical Methods for Survival Data Analysis. New York, NY: John Wiley & Sons; 2013, fourth edition. <https://www.wiley.com/en-sg/Statistical+Methods+for+Survival+Data+Analysis%252C+4th+Edition-p-9781118095027>

kidneytx*Comparisons between kidney transplant centres*

Description

Transplant survival rates by recipients of organs from deceased donors. No event was defined as being alive with a functioning graft at the last known follow-up.

Usage

kidneytx

Format

A data frame with 1439 rows and 9 variables:

patient integer patient id
 centre integer transplant centre (1-8)
 tsurv integer transplant survival time (days)
 tcens integer event indicator (0=censored, 1=transplant failure)
 dage integer donor age (years)
 dtype integer donor type (0=deceased following brain death, 1=circulatory death)
 rage integer recipient age (years)
 diab integer diabetic status (0=absent, 1=present)
 cit double cold ischaemic time (hours)

Details

See Collett (2023). Thirty-five patients had $tsurv==0$ (that is, the transplanted kidney did not function).

 lbrdata0

Data from a cirrhosis study (lbr data)

Description

DATASET_DESCRIPTION

Usage

lbrdata0

Format

A data frame with 42 rows and 3 variables:

patient integer patient id
 time integer date of measurement (days)
 lbr double log bilirubin level

Details

See Collett (2023)

 leukaemia

Bone marrow transplantation in the treatment of leukaemia

Description

Bone marrow transplantation in the treatment of leukaemia

Usage

leukaemia

Format

A data frame with 23 rows and 8 variables:

patient integer patient id

time integer survival time in days

status integer event indicator (0=alive, 1=dead)

group integer disease group (1=ALL, 2=low-risk AML, 3=high-risk AML)

page integer age of patient in years

dage integer age of donor in years

precovery integer platelet recovery indicator (0=no, 1=yes)

pstime character time in days to return of platelets to normal level (if precovery=1)

Details

See Collett (2023). Note that ptime will need conversion:).

 liver

Survival of liver transplant recipients

Description

Survival of liver transplant recipients

Usage

liver

Format

A data frame with 1761 rows and 7 variables:

patient integer patient id

age integer patient age in years

gender integer patient gender (1=male, 2=female)

disease integer primary disease (1=PBC, 2=PSC, 3=ALD)

time integer time to event (days)

status integer cof>0

cof integer cause of graft failure (0=functioning graft, 1=rejection, 2=thrombosis, 3=recurrent disease, 4=other)

Details

See Collett (2023)

liverbase

Data from a cirrhosis study (baseline)

Description

Artificial data

Usage

liverbase

Format

A data frame with 12 rows and 6 variables:

patient integer patient id

time integer survival time in days

status integer event indicator (0=censored, 1=uncensored)

age integer age of the patient (years)

treat integer treatment group (0=placebo, 1=Liverol)

lbr double logarithm of bilirubin level

Details

See Collett (2023)

livertx	<i>Time to death while waiting for a liver transplant</i>
---------	---

Description

Investigate the time on the liver transplantation list.

Usage

```
livertx
```

Format

A data frame with 281 rows and 7 variables:

patient integer patient id

time integer time on the list

status integer event indicator (0=censored, including having a transplant, 1=died on the list)

age integer patient age in years

gender integer patient gender (1=male, 0=female)

bmi double body mass index (kg/m²)

ukeld integer UK endstage liver disease score

Details

See Collett (2023). A higher UKELD is associated with worse disease severity.

liver_counting	<i>Data from a cirrhosis study (in counting process format)</i>
----------------	---

Description

Artificial data

Usage

```
liver_counting
```

Format

A data frame with 54 rows and 7 variables:

patient integer patient id
 start integer start time (days)
 stop integer stop time (days)
 status integer event indicator (0=censored, 1=uncensored)
 treat integer treatment group (0=placebo, 1=Liverol)
 age integer age of the patient at start of study (years)
 lbrt double logarithm of bilirubin level

Details

See Collett (2023). Note that the variable for log of bilirubin differs to that for "liverbase".

lung	<i>Survival of patients registered for a lung transplant</i>
------	--

Description

Survival of patients registered for a lung transplant

Usage

lung

Format

A data frame with 196 rows and 7 variables:

patient integer patient id
 time integer time from registration to the earliest of removal from list, last known follow-up date, 30 April 2012, or death (days)
 status integer event indicator (0=censored, 1=dead)
 age integer age in years
 gender integer gender (1=male, 2=female)
 bmi double body mass index
 disease integer disease (1=COPD, 2=fibrosis, 3=suppurative, 4=other)

Details

See Collett (2023)

 mammary

Recurrence of mammary tumours in female rats

Description

This is an animal experiment to compare the use of retinyl acetate (related to vitamin A) across the study (treatment) to treatment with retinyl acetate to 60 days and then no further treatment (control). The female rats all had mammary tumours.

Usage

mammary

Format

A data frame with 254 rows and 4 variables:

rat integer id for each rat

treatment integer treatment arm indicator (1=treatment, 0=control)

time double follow-up time (days)

status integer recurrence indicator (0=no, 1=yes)

Details

See Collett (2023)

 melanoma

Survival times of patients with melanoma

Description

Comparing two immunotherapy treatments for patients with melanoma

Usage

melanoma

Format

A data frame with 30 rows and 4 variables:

age integer age group (1=21-44, 2=41-60, 3=61+)

treatment integer treatment arm (1=BCG, 2=C. parvum)

time integer survival time (months)

status integer event indicator (0=censored, 1=dead)

Details

See Collett (2023)

mice	<i>Survival of laboratory mice</i>
------	------------------------------------

Description

Laboratory study of survival for two groups of mice exposed to radiation.

Usage

mice

Format

A data frame with 181 rows and 3 variables:

environment integer type of environment (1=standard, 2=germ-free)

causeofdeath integer cause of death (1=thymic lymphoma, 2=reticulum cell sarcoma, 3=other causes)

time integer survival time (days)

Details

See Collett (2023). Note that there are no censored event times.

myeloma	<i>Survival of multiple myeloma patients</i>
---------	--

Description

Patients diagnosed with multiple myeloma who were diagnosed and treated with alkylating agents at West Virginia University Medical Center for ages 50-80 years.

Usage

myeloma

Format

A data frame with 48 rows and 10 variables:

patient integer for a patient identifier

time integer survival time in months

status integer for status at follow-up (0=Alive, 1=Dead)

age integer age at diagnosis in years

sex integer for sex of the patient (1=male, 2=female)

bun integer level of blood urea nitrogen at diagnosis (unit assumed to be mg/dL based on the normal range for adults reported by https://en.wikipedia.org/wiki/Blood_urea_nitrogen)

ca integer serum calcium at diagnosis in mg/dL

hb double for serum hemoglobin level at diagnosis in g/dL (equivalently, grams per 100 mL)

pcells integer percent of plasma cells in the bone marrow at diagnosis

protein integer indicator for whether or not the Bence-Jones protein was present in the urine at diagnosis (0=absent, 1=present)

Details

Krall et al (1975) did not provide the units for all of these measurements. In their analyses, they used some data transformations: $\log(\text{bun})$. Collett (2023) converted data from Krall et al (1975): BUN is reported by Krall and colleagues as $X1=\log(\text{BUN})$, however the log base and unit is unclear; Krall and colleagues reported for 65 individuals, including those younger than 50 and older than 80.

References

Krall JM, Uthoff VA, Harley JB. A step-up procedure for selecting variables associated with survival. *Biometrics*. 1975 Mar 1:49-57. doi:10.2307/2529709

Examples

```
## To be completed.
```

ovarian

Chemotherapy in ovarian cancer patients

Description

Trial for treatment of ovarian cancer patients comparing cyclophosphamide alone with cyclophosphamide combined with adriamycin.

Usage

ovarian

Format

A data frame with 26 rows and 7 variables:

patient integer identifier

time integer survival time from randomisation in days

status integer event indicator (0=right censored, 1=event)

treat integer treatment (1=single, 2=combined)

age integer age of patients in years

rdisease integer extent of residual disease (1=incomplete, 2=complete)

perf integer performance status (1=good, 2=poor)

Details

See Collett (2023)

prostatic

Comparison of two treatments for prostatic cancer

Description

Randomised controlled trial from the Veteran's Administration Cooperative Urological Research Group. Includes patients who had stage III cancers and were randomised to placebo or daily oral treatment with 1.0 mg of diethylstilbesterol (DES).

Usage

prostatic

Format

A data frame with 38 rows and 8 variables:

patient integer patient identifier

treatment integer treatment indicator (1=placebo; 2=daily treatment with 1.0 mg of diethylstilbesterol (DES))

time integer survival time from trial entry to end of follow-up in months

status integer for follow-up status (0=alive or died from other causes, 1=died from prostate cancer)

age integer age at trial entry in years

shb double serum hemoglobin at trial entry in g/dL

size integer size of the primary tumour in cm³

index integer Gleason index based on histopathology

Details

TBC.

References

Andrews DF, Herzberg AM. Data: a collection of problems from many fields for the student and research worker. Springer Series in Statistics; Springer New York, NY; 1985. doi:10.1007/9781-461250982

pulmonary	<i>Pulmonary metastasis</i>
-----------	-----------------------------

Description

A very simple dataset with no censoring

Usage

pulmonary

Format

A data frame with 11 rows and 1 variables:

time integer survival time from pulmonary metastasis to death in months

Details

See Collett (2023)

tamoxifen	<i>Clinical trial of tamoxifen in breast cancer patients</i>
-----------	--

Description

Clinical trial for breast cancer patients comparing combined tamoxifen and radiotherapy with tamoxifen alone.

Usage

tamoxifen

Format

A data frame with 641 rows and 18 variables:

id integer patient identifier
 treat integer treatment group (0=tamoxifen+radiotherapy, 1=tamoxifen)
 age integer patient age at study entry (years)
 size double tumour size (cm)
 hist integer tumour histology (1=ductal, 2=lobular, 3=medullary, 4=mixed, 5=other)
 hr integer hormone receptor level (0=negative, 1=positive)
 hb integer Haemoglobin level (g/l)
 andis integer axillary relapse (0=no, 1=yes)
 lsurv integer time to local relapse or last follow-up (days)
 ls integer local relapse (0=no, 1=yes))
 asurv integer time to axillary relapse or last follow-up (days)
 as integer axillary relapse (0=no, 1=yes)
 dsurv integer Time to distant relapse or last follow-up (days)
 ds integer distant relapse (0=no, 1=yes)
 msurv integer time to second malignancy or last follow-up (days)
 ms integer second malignancy (0=no, 1=yes)
 tsurv integer time from randomisation to death or last follow-up (days)
 ts integer status at last follow-up (0=alive, 1=dead)

Details

See Collett (2023)

tplant	<i>Survival following kidney transplantation</i>
--------	--

Description

Survival following kidney transplantation

Usage

tplant

Format

A data frame with 434 rows and 7 variables:

patient integer patient id

donor integer donoe id

time integer survival time in days

status integer event indicator (0=censored, 1=graft failure or death with a functioning graft)

age integer patient age (years)

diabetes integer diabetes status (0=absent, 1=present)

cit double cold ischaemic time, the time in hours between retrieval of the kidney from the donor and the transplantation

Details

See Collett (2023)

ulcer

Recurrence of an ulcer

Description

A double-blind trial comparing two treatments for ulcers. Data from Belgium.

Usage

ulcer

Format

A data frame with 43 rows and 6 variables:

patient integer patient id

age integer age at the end of the trial in years

duration integer duration of verified disease (1: <5 years, 2: >=5 years)

treatment integer treatment arm (1=A,2=B)

time integer time since last visit (months)

result integer result of the last visit (1=no ulcer detected, 2=ulcer detected)

Details

See Collett (2023)

valve	<i>Survival following aortic valve replacement</i>
-------	--

Description

Patients following an aortic valve replacement are measured for left ventricular mass index (LVMI).

Usage

valve

Format

A data frame with 988 rows and 11 variables:

id integer patient id

futime double total follow-up time from date of surgery (years)

status integer event indicator (0=censored, 1=death)

time double time of LVMI measurement after surgery (years)

lvmi double standardised LVMI

age integer age of patient in years

sex integer sex of patient (0=male, 1=female)

redo integer previous cardiac surgery (0=no, 1=yes)

emerg integer operative urgency (0=elective, 1=urgent or emergency)

dm integer preoperative diabetes mellitus (0=no, 1=yes)

type integer type of valve (1=human tissue, 2=porcine tissue)

Details

See Collett (2023)

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