

Australian Health Service Utilization Data

Description

Cross-section data originating from the 1977–1978 Australian Health Survey.

Usage

```
data("DoctorVisits")
```

Format

A data frame containing 5,190 observations on 12 variables.

visits

Number of doctor visits in past 2 weeks.

gender

Factor indicating gender.

age

Age in years divided by 100.

income

Annual income in tens of thousands of dollars.

illness

Number of illnesses in past 2 weeks.

reduced

Number of days of reduced activity in past 2 weeks due to illness or injury.

health

General health questionnaire score using Goldberg's method.

private

Factor. Does the individual have private health insurance?

freepoor

Factor. Does the individual have free government health insurance due to low income?

freerepat

Factor. Does the individual have free government health insurance due to old age, disability or veteran status?

nchronic

Factor. Is there a chronic condition not limiting activity?

lchronic

Factor. Is there a chronic condition limiting activity?

Source

Journal of Applied Econometrics Data Archive.

<http://qed.econ.queensu.ca/jae/1997-v12.3/mullahy/>

References

Cameron, A.C. and Trivedi, P.K. (1986). Econometric Models Based on Count Data: Comparisons and Applications of Some Estimators and Tests. *Journal of Applied Econometrics*, **1**, 29–53.

Cameron, A.C. and Trivedi, P.K. (1998). *Regression Analysis of Count Data*. Cambridge: Cambridge University Press.

Mullahy, J. (1997). Heterogeneity, Excess Zeros, and the Structure of Count Data Models. *Journal of Applied Econometrics*, **12**, 337–350.

See Also

CameronTrivedi1998

Examples

```
data("DoctorVisits", package = "AER")
library("MASS")

## Cameron and Trivedi (1986), Table III, col. (1)
dv_lm <- lm(visits ~ . + I(age^2), data = DoctorVisits)
summary(dv_lm)

## Cameron and Trivedi (1998), Table 3.3
dv_pois <- glm(visits ~ . + I(age^2), data = DoctorVisits, family = poisson)
summary(dv_pois)          ## MLH standard errors
coeftest(dv_pois, vcov = vcovOPG) ## MLOP standard errors
logLik(dv_pois)
## standard errors denoted RS ("unspecified omega robust sandwich estimate")
coeftest(dv_pois, vcov = sandwich)

## Cameron and Trivedi (1986), Table III, col. (4)
dv_nb <- glm.nb(visits ~ . + I(age^2), data = DoctorVisits)
summary(dv_nb)
logLik(dv_nb)
```