Mayo Clinic Primary Biliary Cirrhosis, sequential data

**Description**

This data is a continuation of the PBC data set, and contains the follow-up laboratory data for each study patient. An analysis based on the data can be found in Murtagh, et. al.

The primary PBC data set contains only baseline measurements of the laboratory paramters. This data set contains multiple laboratory results, but only on the 312 randomized patients. Some baseline data values in this file differ from the original PBC file, for instance, the data errors in prothrombin time and age which were discovered after the orignal analysis (see Fleming and Harrington, figure 4.6.7).

One "feature" of the data deserves special comment. The last observation before death or liver transplant often has many more missing covariates than other data rows. The original clinical protocol for these patients specified visits at 6 months, 1 year, and annually thereafter. At these protocol visits lab values were obtained for a large pre-specified battery of tests. "Extra" visits, often undertaken because of worsening medical condition, did not necessarily have all this lab work. The missing values are thus potentially informative.

**Format**

|  |  |
| --- | --- |
| id: | case number |
| age: | in years |
| sex: | m/f |
| trt: | 1/2/NA for D-penicillmain, placebo, not randomised |
| time: | number of days between registration and the earlier of death, |
|  | transplantion, or study analysis in July, 1986 |
| status: | status at endpoint, 0/1/2 for censored, transplant, dead |
| day: | number of days between enrollment and this visit date |
|  | all measurements below refer to this date |
| albumin: | serum albumin (mg/dl) |
| alk.phos: | alkaline phosphotase (U/liter) |
| ascites: | presence of ascites |
| ast: | aspartate aminotransferase, once called SGOT (U/ml) |
| bili: | serum bilirunbin (mg/dl) |
| chol: | serum cholesterol (mg/dl) |
| copper: | urine copper (ug/day) |
| edema: | 0 no edema, 0.5 untreated or successfully treated |
|  | 1 edema despite diuretic therapy |
| hepato: | presence of hepatomegaly or enlarged liver |
| platelet: | platelet count |
| protime: | standardised blood clotting time |
| spiders: | blood vessel malformations in the skin |
| stage: | histologic stage of disease (needs biopsy) |
| trig: | triglycerides (mg/dl) |
|  |  |

**Source**

T Therneau and P Grambsch, "Modeling Survival Data: Extending the Cox Model", Springer-Verlag, New York, 2000. ISBN: 0-387-98784-3.

**References**

Murtaugh PA. Dickson ER. Van Dam GM. Malinchoc M. Grambsch PM. Langworthy AL. Gips CH. "Primary biliary cirrhosis: prediction of short-term survival based on repeated patient visits." Hepatology. 20(1.1):126-34, 1994.