Assignment II for

EP16: Missing Values in Clinical Research

Multiple Imputation

13 − 17 May, 2019

Data

The **MIdat23** data comprise data of 981 liver transplant patients that are followed up after receiving the transplant, from a multi-center study.

The dataset contains the following variables:

variable	explanation
ID	patient identifier
outcome	survival outcome
time	event time
bg_match	are the blood groups of donor and recipient equal? (`"factor(bg_don == bg_rec)"`)
age_rec	age of the recipient (patient)
age_don	age of the donor
bg_don	blood group of the organ donor
bg_rec	blood group of the recipient (patient)
isc_time	ischemic time (time the organ was outside the body)
birth	year of birth of the recipient (patient)
graft	type of graft (HF: heart beating donor, full liver; HP: heart beating donor, partial liver; DF: domino transplant, full liver; LL: living donor, split liver; NF: non-heart beating donor, full liver; HR: heart beating donor, reduced liver; NP: non-heart beating donor; partial liver)
sex	sex of the recipient (patient)
year	year the transplant was performed

Analysis model of interest

The analysis model of interest is a time-to-event model with event time time and event indicator outcome and covariates `year`, `bg_match`, `isc_time`, `age_don`, `age_rec` and `sex`.