Assignment II for

EP16: Missing Values in Clinical Research

Multiple Imputation

13 - 17 May, 2019

Data

The MIdat32 data comprise 1206 observations of 335 mothers measured repeatedly before and during pregnancy. All women were scheduled to have their weight measured once each trimester and were asked for their prepregnancy weight and BMI.

The dataset contains the following variables:

variable	explanation
id	subject identifier
gage	gestational age at measurement (gage = 0 refers to a measurement before pregnancy)
weight	maternal weight
stress	self reported stress score $(0-5)$
gestbir	gestational age at birth
parity	number of pregnancies of more than 20 weeks the mother had (nulliparity: this was the first pregnancy, $>=1$ child: mother had previous pregnancies)
preterm	was the baby born before 37 weeks of gestation (preterm) or later?
educ	educational level of the mother
sex	child sex
kcal	average daily kcal intake (calculated from food frequency questionnaire)
bd_mom	birth date of the mother
date_incl	date of inclusion in the study
income	household income
visit_center	was intake performed at the study center? (0: no, 1: yes)
trimester	trimester of measurement
smoke	smoking behaviour of the mother during pregnancy
bmi	self reported maternal BMI before pregnancy

Analysis model of interest

The analysis model of interest is a linear mixed model for weight with random intercept and slope for gage. Covariates are smoke, kcal, stress, preterm, parity, educ and income.