## Assignment II for

# EP16: Missing Values in Clinical Research

### Multiple Imputation

13 - 17 May, 2019

#### Data

The MIdat33 data comprise 1239 observations of 344 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
gestbir	gestational age at birth
trimester	trimester of measurement
preterm	was the baby born before 37 weeks of gestation (preterm) or later?
parity	number of pregnancies of more than 20 weeks the mother had (nulliparity: this was the first pregnancy, $>=1$ child: mother had previous pregnancies)
alc	alcohol consumption behaviour of the mother during pregnancy
bd_mom	birth date of the mother
kcal	average daily kcal intake (calculated from food frequency questionnaire)
BMI	self reported maternal BMI before pregnancy
gender	child gender
inclusion	date of inclusion in the study
stress	self reported stress score $(0-5)$
educ	educational level of the mother
visit_center	was intake performed at the study center? (0: no, 1: yes)
income	household income

#### 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 alc, kcal, stress, preterm, parity, educ and income.