A Few Tips for the Data Analysis Project

a) Treatment Effects on Recurrence and Survival

Kaplan-Meier plots

Log rank tests

Cox models: assessing PH

b) Natural History Model

Selection of relevant data set

Univariate analysis

Stepwise selection of variables

- p = 0.01 or 0.05 for selection criterion
- ullet may include log and squared transformations, and interactions

Model checking

- functional forms of covariates: martingale residuals
- PH: score process
- influence points: score residuals

Model validation

Prediction