GAP TIME MODELING

T. Scheike

University of Copenhagen, Copenhagen, Denmark

[†] E-mail: ts@biostat.ku.dk

The choice of time-scale has many important implications when analyzing recurrent events in the presence of right censoring. When the time-scale is time since last event, one important problem is that right censoring will lead to dependent censoring for all but the first waiting time. For i.i.d. waiting times this is no problem, but otherwise may lead to difficult estimation because of the need to deal with dependent censoring. One notable exception is that frailty models can still be analyzed by standard methods, but when interest is on marginal distributions the problems needs to be dealt with. Based on bowed-disease data I will present various approaches to analyses such data by gap time modeling.