

Sampling and analyses of longitudinal data

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In this talk I will present a framework for modelling the sampling and responses of longitudinal data. To identify regression parameters for the response based on random sampling what is needed is basically that the the models contains sufficient with covariates that the response and the sampling times are independent given the covariates (Martinussen and Scheike, 2006). In the case where subjects will always be at risk certain simplifications are possible and it turns out that in this case one can identify the marginal means of the response given the covariates (Lin, Scharfstein and Rosenheck, 2004). The models considered are the partial linear models where some covariates effects lead to timevarying effects and other covariates have constant effects over time.

References

- [1] Lin, Scharfstein and Rosenheck, JRSSB, 2004;
- [2] Martinussen and Scheike, Dynamic regression models for survival data, Springer, 2006;