

(3)

α Type 3: Repeated Obs in both

▸ Variation in predictors (BC) and responses (B)

▸ Stat. Analysis : ML - Approaches

▸ Approx : Replace repeated obs in predictors  
by mean / median

Use type 2 analysis

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Type 2 Repeated Observations

□ Appearance of linear mixed effects model (LME)

□ LME are used, if data has specific structure (hierarchical) in variation of observations  $\rightarrow$  Model

□ Model :  $\text{cov}(\epsilon) = I\sigma_e^2$  in ordinary regression is replaced by a more general matrix  $V$