

Index

- Adjustment for covariance 148
- Aggregation 36
- Association (mixed) models 99

- Balanced dataset 36
- Bayesian mixed model analysis 195
- Between-subject interpretation 138
- Broad data structure 132

- C-statistic 115
- Centring independent variables 23
- Cluster randomisation 43
- Conservative correction factor 181
- Covariance 20
- Cox regression analysis 71
- Cross-level interaction 98

- Dersimonian-Laird estimator 178
- Disaggregation 36

- Explaining group differences 78
- Exchangeable correlation structure 53
- Exponential hazard function 74

- Fixed part of the mixed model 10
- Fixed regression coefficient 33

- Gauss–Hermite quadrature 48
- GEE analysis 53, 147
- Gllamm procedure 59, 205

- GLM for repeated measures 147
- Growth curve analysis 141

- Hierarchical linear models 1
- Hybrid models 131, 191

- Instrumental variables 77
- Interval mixed model analysis 77
- Integration method 48
- Intraclass correlation coefficient
 - in linear mixed model analysis 13
 - in logistic mixed model analysis 51

- Kenward-Roger adjustment 177

- Liberal correction factor 181
- Likelihood ratio test 12
- Linear mixed model analysis 10
- Logistic mixed model analysis 45
- Long data structure 132
- Longitudinal data analysis 131

- MANOVA 151
- Median odds ratio 52
- Missing data 150
- Multilevel analysis 1
- Multinomial logistic mixed model
 - analysis 58
- Multivariate mixed model analysis
 - 151

- Naive analysis, see Disaggregation
Negative binomial mixed model analysis 67

One-stage IPD meta-analysis 166
Ordinal multinomial logistic mixed model analysis 62
Overdispersion 67

Parametric survival model 74
Poisson mixed model analysis 65
Prediction (mixed) models 116
Prognostic (mixed) models, see prediction (mixed) models

Random coefficient analysis 8
Random intercept 8
Random part of the mixed model 11
Random slope 16
Restricted maximum likelihood 33

Sample size calculation 179
Shrinkage 116
STATA syntax 205
Statistical software
 SPSS, SAS, R 204
Survival mixed model analysis 71

Three-level structure 2
Tobit mixed model analysis 77
Two-level structure 1
Two-stage IPD meta-analysis 166

Unbalanced dataset 41

Weibull hazard function 74
Within-subject interpretation 138

xt procedures in STATA 187