

Definition of
Pharmacostatistical Model



Covariate Addition



Structural Model Refinement



Validation



Error Model Refinement



Final Model

- Define basic pharmacostatistical model

- Covariates evaluated against base model parameters.
- Covariate relationships deemed relevant and/or plausible added.
- Redundancy of covariates given the presence of correlated / predictive covariates examined.

- Modifications to the data set and/or model as appropriate

- External validation: projection of results from model building dataset onto validation data.

- Re-examination of error model with any additional covariate reduction

- Comparison with alternative approaches