

For discrete variables, the statistical analyses will employ simple stratified analyses using Mantel-Haenszel models (Mantel and Haenszel, 1959) or logistic regression models (Breslow and Day, 1980,1987) as appropriate.

Statistical analyses will employ simple stratified analyses using Mantel-Haenszel statistics (Mantel and Haenszel, 1959), analysis of variance techniques and regression modeling. Both parametric and non-parametric techniques will be used, depending on required statistical distributional assumptions for parametric analyses. Statistical analyses will primarily be carried out in SAS, although other packages with common epidemiologic statistical routines (EGRET, EPICURE, STATA) will be used to supplement SAS analyses.

Continuous measures will be analyzed by appropriate linear model analyses (e.g. analysis of variance, regression, analysis of covariance [Snedecor and Cochran, 1989]). For the case of repeated or serial continuous measures, such as serial WBC, the analysis will be based on mixed-effect models appropriate for repeated measures on a single subject over time (Milliken and Johnson, 1984).

A special case for analysis is the role of genetic polymorphisms on exposure/response relationships that will be explored in subsequent analyses. For this assessment, each outcome will be characterized as a dichotomy and genetic polymorphisms, exposure etc. will be predictor variables (e.g. presence absence of chromosome 7q- deletions). In this manner, statistical analyses appropriate for case control studies can be employed as in Andrieu and Goldstein, (1998).

References

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