

Abstract of master thesis (in Portuguese):

Logistic Models for Binary Data

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The aim of this work is to present the principal regression models for binary data. Particular emphasis is given for the logistic regression models.

In Chapter 1 the classical statistical methods for binary data in contingency tables are presented. The linear logistic model, which has been largely applied in the Biomedical Sciences, is discussed in Chapter 2.

In Chapter 3 several logistic regression models are presented. These models were in general developed for the purpose of improving the extreme probability fittings. Special emphasis is given for the nonlinear logistic model proposed by Stukel (1988) and for the estimation of lethal doses in quantal essays.

Several illustrative examples are given in the work and a particular program was developed for fitting the Stukel's model.