



Marginal probabilities and point estimation for conditionally specified logistic regression

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Conditionally specified logistic regression (CSLR) models p binary response variables simultaneously. Marginal probabilities are point estimates for individual binary responses. We give a general rule to derive marginal probabilities for a CSLR model. We also show that a CSLR model can include third order interactions. We apply CSLR to a data set, and compare the performance of CSLR to other methods for modeling multivariate binary data.

Keywords: Multiple binary responses; Conditionally specified logistic regression; Marginal probabilities.