

Re: Logistic regression and linear regression

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- *From:* Richard Ulrich <Rich.Ulrich@xxxxxxxxxxxx>
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On Mon, 26 May 2008 06:44:12 -0700 (PDT), maria.hartberg@xxxxxxxxxx wrote:

Hello,
Would I get the same results if I turned my binary data into logratios and then run a linear regression rather than running a logistic regression?

No.

For grouped data with no 0/100s, a Least-squares regression program *can* be used, with weighting, to get a "Least chi-squared" solution. Finney gave details, in his book (about 1972) on bioassay, if not the logistic book. You might be able to find me citing that years ago, if you Google-groups
<group:sci.stat.* author:ulrich Finney >.

The reason for this is that I need to run stepwise forward logistic regression in matlab but matlab has no function for that so I thought that maybe I could turn my binary variables to log ratios and then do a linear.

PS. Maybe the question seems simple but I am not a statistics person.

Stepwise solutions are usually not a good idea. You could also Google-groups for me on "stepwise".

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Rich Ulrich

<http://www.pitt.edu/~wpilib/index.html>

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